FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
ALAMO CEMENT COMPANY

AUTHORIZING THE OPERATION OF
San Antonio Cement Plant
Cement Manufacturing

LOCATED AT
Bexar County, Texas
Latitude 29° 36′ 43″ Longitude 98° 22′ 33″
Regulated Entity Number: RN100220474

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: O1115 Issuance Date: July 10, 2024

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 LLL or ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113,

Subchapter C, § 113.690 or § 113.1090, respectively, which incorporate the 40 CFR Part 63 Subparts by reference.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

      (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that

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

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

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

(3) Records of all observations shall be maintained.

(4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

  (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).

  (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is

determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

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

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

(i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)

(ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)

(iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A).

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

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

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

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

(iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

(1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.

(2) Records of all observations shall be maintained.

(3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer

visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(4) Compliance Certification:

(a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)

(b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.

E. 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)

4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: “Storage of Volatile Organic Compounds,” the permit holder shall comply with the requirements of 30 TAC § 115.112(c)(1).

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

A. When filling gasoline storage vessels with a nominal capacity greater than 1,000 gallons (Stage I) at motor vehicle fuel dispensing facilities, which have dispensed no more than 25,000 gallons of gasoline in any calendar month after December 31, 2004, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:

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

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

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

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

6. 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)

7. 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)

8. 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.

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

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

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

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

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

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

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

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

10. For open clinker storage piles, the permit holder shall comply with the following requirements of 40 CFR Part 63, Subpart LLL for control of fugitive dust emissions:

A. Title 40 CFR § 63.1343(c) and (c)(1) (relating to Standards for kilns, clinker coolers, raw material dryers, and open clinker storage piles), for preparation of and operation in accordance with fugitive dust emissions control measures in an operation and maintenance plan

B. Title 40 CFR § 60.1343(c)(2) (relating to Standards for kilns, clinker coolers, raw material dryers, and open clinker storage piles), for control measures for open clinker storage piles

C. Title 40 CFR § 60.1343(c)(3) (relating to Standards for kilns, clinker coolers, raw material dryers, and open clinker storage piles), for cleanup of temporary clinker piles

Additional Monitoring Requirements

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

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

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

C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the “CAM Summary,” for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).

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

E. 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.

12. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

13. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated October 19, 2023 in the application for project 33622), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:

A. Are incorporated by reference into this permit as applicable requirements

B. Shall be located with this operating permit

C. Are not eligible for a permit shield

14. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.

15. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source

Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

16. The permit holder shall comply with the following requirements for Air Quality Standard Permits:

    A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit

    B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit

    C. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

Compliance Requirements

17. 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.

    A. The permit holder shall comply with the compliance schedule as required in 30 TAC § 117.9320 for cement kilns.

18. Use of Emission Credits to comply with applicable requirements:

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

        (i) Title 30 TAC Chapter 115

        (ii) Title 30 TAC Chapter 117

        (iii) Offsets for Title 30 TAC Chapter 116

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

        (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)

        (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1

        (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)

(iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122

(v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)

19. 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)

Permit Location

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

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

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
CD-1	MINERAL PROCESSING PLANT	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
D28	MINERAL PROCESSING PLANT	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
FGD-1	MINERAL PROCESSING PLANT	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
FGD-2	MINERAL PROCESSING PLANT	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
FGD-3	MINERAL PROCESSING PLANT	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
FGD-4	MINERAL PROCESSING PLANT	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPBAG	MINERAL PROCESSING PLANT	R102, R75	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPCAMFIN	MINERAL PROCESSING PLANT	N02, N52	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPCLINK	MINERAL PROCESSING PLANT	M-21, M-23, M-24, M-25	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPCLINK2	MINERAL PROCESSING PLANT	K38, L02, L04, L07, L08, L27, L29, L30, M-13, M-14, M-18, M-19, M-26, M01	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPCOAL	COAL PREPARATION PLANT	S08, S11, S13, S18, S20, S30, S37	60Y-254	40 CFR Part 60, Subpart Y	No changing attributes.
GRPCOALHOP	COAL PREPARATION PLANT	S07, S44, S98	60Y-254	40 CFR Part 60, Subpart Y	No changing attributes.
GRPFINISH	MINERAL PROCESSING PLANT	N06A, N16A, N66A	60F	40 CFR Part 60, Subpart F	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
GRPGYP	MINERAL PROCESSING PLANT	M-02, M-12, M04	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPLOAD	MINERAL PROCESSING PLANT	R09, R19, R29, R39, R49, R59	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPRAW	MINERAL PROCESSING PLANT	E01, E03, F05, H07	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPRAW2	MINERAL PROCESSING PLANT	F09, H09	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPRMS	MINERAL PROCESSING PLANT	D-98, D01, D04, D06, D11, D14, D15, D16, D17, D20, M-98, M-99, Q10	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPSILO	MINERAL PROCESSING PLANT	M-79, N-136A, N-80, N72, N72B, N73, N97, SILO12-15, SILO8-11	60F	40 CFR Part 60, Subpart F	No changing attributes.
GRPSLAG	MINERAL PROCESSING PLANT	M-34, M-34A, M-34B, M-34C, M-35, M-35A, M-35B	60F	40 CFR Part 60, Subpart F	No changing attributes.
K02	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
K02	MINERAL PROCESSING PLANT	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
K02	MINERAL PROCESSING PLANT	N/A	63LLL	40 CFR Part 63, Subpart LLL	No changing attributes.
N56A	MINERAL PROCESSING PLANT	N/A	60F	40 CFR Part 60, Subpart F	No changing attributes.
Q13	MINERAL PROCESSING	N/A	60OOO	40 CFR Part 60, Subpart	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
	PLANT			OOO	
Q14	MINERAL PROCESSING PLANT	N/A	60OOO	40 CFR Part 60, Subpart OOO	No changing attributes.
Q21	MINERAL PROCESSING PLANT	N/A	60OOO	40 CFR Part 60, Subpart OOO	No changing attributes.
T01	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
T13	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	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)
CD-1	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
D28	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
FGD-1	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
FGD-2	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)

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)
						any gases which exhibit 10 percent opacity, or greater.			
FGD-3	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
FGD-4	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPBAG	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPCAMFIN	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) § 63.1350(f)(4) § 63.1350(f)(4)(ii)	§ 63.1350(m)(3) § 63.1350(m)(4) § 63.1350(p)	§ 60.64(d)(1) § 60.64(d)(4)

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)
						atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 63.1350(m) § 63.1350(m)(1) § 63.1350(m)(2) § 63.1350(m)(3) § 63.1350(p) [G]§ 63.1350(p)(1) [G]§ 63.1350(p)(2) § 63.1350(p)(3) § 63.1350(p)(4) ** See CAM Summary		
GRPCLINK	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPCLINK2	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPCOAL	EU	60Y-254	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	§ 60.255(a) § 60.257(a) [G]§ 60.257(a)(1) [G]§ 60.257(a)(2) [G]§ 60.257(a)(3) ** See Periodic Monitoring	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)
						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.	Summary		
GRPCOALHOP	EU	60Y-254	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)
GRPFINISH	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)

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)
						percent opacity, or greater.			
GRPGYP	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPLOAD	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPRAW	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPRAW2	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)

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)
						affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.			
GRPRMS	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPSILO	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
GRPSLAG	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
K02	EP	R1111	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%	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	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)
						averaged over a six minute period for any source on which construction was begun after January 31, 1972.			
K02	EU	60F	PM	40 CFR Part 60, Subpart F	§ 60.62(a)(1)(i) § 60.62(a) § 60.62(a)(1) § 60.62(d) [G]§ 60.63(b)(1)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any kiln any gases which contain particulate matter (PM) in excess of 0.30 pound per ton of feed (dry basis) to the kiln if construction, reconstruction, or modification of the kiln commences after August 17, 1971 but on or before June 16, 2008.	§ 60.63(b) [G]§ 60.63(b)(1) § 60.63(b)(2) [G]§ 60.63(i) § 60.64(a) § 60.64(b)(1)	§ 60.63(b)(2) § 60.63(b)(3) [G]§ 60.63(i)	[G]§ 60.63(i) § 60.64(d)(1) § 60.64(d)(3) § 60.64(d)(4)
K02	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(a)(2) § 60.62(a) § 60.62(d)	After performance test required by §60.8 is completed, no owner or operator shall discharge into the atmosphere any kiln gases which exhibit greater than 20 percent opacity.	§ 60.64(a) § 60.64(b)(2)	None	§ 60.64(d)(1) § 60.64(d)(4)
K02	EU	63LLL	112(B) HAPS	40 CFR Part 63, Subpart LLL	§ 63.1340(a) The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart LLL	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart LLL

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)
N56A	EU	60F	PM (Opacity)	40 CFR Part 60, Subpart F	§ 60.62(c) § 60.62(d)	On and after the date on which the performance test required to be conducted by §60.8 is completed, you may not discharge into the atmosphere from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.	§ 60.64(a) § 60.64(b)(2) § 60.64(b)(3) ** See Periodic Monitoring Summary	None	§ 60.64(d)(1) § 60.64(d)(4)
Q13	EU	60OOO	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) ** See Periodic Monitoring Summary	§ 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)
Q14	EU	60OOO	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,	§ 60.674(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) ** See Periodic	§ 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)
						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.	Monitoring Summary		
Q21	EU	60OOO	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) ** See Periodic Monitoring Summary	§ 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)
T01	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6603(a)-Table 2d.4 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(f) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at an area source, you must comply with the requirements as specified in Table 2d.4.a-c.	§ 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii	§ 63.6625(i) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)

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)
					§ 63.6640(f)(4) § 63.6640(f)(4)(i)				
T13	EU	63ZZZZ	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None

Additional Monitoring Requirements

CAM Summary

Unit/Group/Process Information	
ID No.: GRPCAMFIN	
Control Device ID No.: GRPCAMFIN	Control Device Type: Fabric filter
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Bag Leak Detection Signal and Opacity	
Minimum Frequency: Four times per hour	
Averaging Period: Establish per EPA Guidance (EPA-454/R-98-015)	
Deviation Limit: 10% opacity, or if Method 9 is not conducted after observing visible emissions and implementing corrective actions.	

CAM Text: Each monitoring device shall be installed, calibrated and maintained in a manner consistent with EPA Office of Air Quality Planning and Standards, Fabric Filter Bag Leak Detection Guidance (EPA-454/R-98-015).

When an alarm event occurs, the plant operators shall perform a one-minute Method 22 within one hour of the alarm. If no visual emissions are observed by the plant operators, the control room operator will clear the alarm and continue running the finish mill unit. If visible emissions are observed, procedures to determine the cause of the alarm shall be initiated within 8 hours of the alarm. The owner or operator must alleviate the cause of the alarm within 24 hours of the alarm by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:

(i) Inspecting the fabric filter for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in PM emissions;

(ii) Sealing off defective bags or filter media;

(iii) Replacing defective bags or filter media or otherwise repairing the control device;

(iv) Sealing off a defective fabric filter compartment;

(v) Cleaning the BLDS probe or otherwise repairing the BLDS; or

(vi) Shutting down the process producing the PM emissions.

As soon as practicable, but no later than 24 hours after completing repairs or restarting the unit. the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of appendix A to 40 CFR part 60. Any opacity reading greater than 10% shall be reported as a deviation. Failure to conduct a Method 9 within 24 hours will be reported as a deviation.

The results of the one-minute Method 22 and the six-minute Method 9 shall be documented in the Baghouse Leak Detection Alarm Log, which is located in the Control Room.

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: CD-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: D28	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: FGD-1	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: FGD-2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: FGD-3	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: FGD-4	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPBAG	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCLINK	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCLINK2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCOAL	
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-254
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: Visible emissions and 20% opacity	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPCOALHOP	
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-254
Pollutant: PM (Opacity)	Main Standard: § 60.254(a)
Monitoring Information	
Indicator: Visible emissions, opacity	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: Visible emissions and 20% opacity	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6 minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPFINISH	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPGYP	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPLOAD	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPRAW	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPRAW2	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPRMS	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPSILO	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: GRPSLAG	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: N56A	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 40 CFR Part 60, Subpart F	SOP Index No.: 60F
Pollutant: PM (Opacity)	Main Standard: § 60.62(c)
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity, or visible emissions if Method 9 is not conducted after visible emissions are observed.	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: Q13	
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
Pollutant: PM (Opacity)	Main Standard: § 60.672(b)-Table 3
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: Q14	
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
Pollutant: PM (Opacity)	Main Standard: § 60.672(b)-Table 3
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: Q21	
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
Pollutant: PM (Opacity)	Main Standard: § 60.672(b)-Table 3
Monitoring Information	
Indicator: Visible emissions	
Minimum Frequency: Once per month	
Averaging Period: N/A	
Deviation Limit: 10% opacity	
Periodic Monitoring Text: The permit holder must conduct a monthly 1-minute visible emissions test of each affected source in accordance with Method 22 of Appendix A to 40 CFR Part 60. The test must be conducted while the affected source is in operation. If visible emissions are observed during any Method 22 test, the permit holder must conduct a 6-minute test of opacity in accordance with Method 9 of Appendix A to 40 CFR Part 60. The Method 9 test must begin within one hour of any observation of visible emissions.	

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.: GHGPSDTX143	Issuance Date: 03/29/2023
PSD Permit No.: PSDTX145M2	Issuance Date: 03/29/2023
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.: 6758	Issuance Date: 03/29/2023
Authorization No.: 52237	Issuance Date: 11/19/2020
Authorization No.: 170978	Issuance Date: 11/30/2022
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 58	Version No./Date: 09/23/1982
Number: 106.144	Version No./Date: 03/14/1997
Number: 106.227	Version No./Date: 03/14/1997
Number: 106.261	Version No./Date: 12/24/1998
Number: 106.261	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 03/14/1997
Number: 106.452	Version No./Date: 03/14/1997
Number: 106.454	Version No./Date: 03/14/1997
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 03/14/1997
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 03/14/1997

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**
CD-1	CLINKER DROP TO PILE	106.261/09/04/2000 [47246]
D-98	LOADER ROAD FUGITIVES	106.261/12/24/1998 [40895]
D01	LINESTONE STORAGE BUILDING FUGITIVES	6758, PSDTX145M2
D04	LIMESTONE BIN DROP TO BELT	6758, PSDTX145M2
D06	LIMESTONE BIN DROP TO MILL BELT	6758, PSDTX145M2
D11	SHALE STORAGE BUILDING FUGITIVES	6758, PSDTX145M2
D14	BELT DROP TO SHALE BIN	6758, PSDTX145M2
D15	LOADER DROP TO HOPPER	6758, PSDTX145M2
D16	SHALE BIN DROP BELT	106.261/12/24/1998 [40895]
D17	LIMESTONE BIN BAGHOUSE	106.144/03/14/1997 [40896]
D20	SAND/ADDITIVES DROP TO HOPPER	6758, PSDTX145M2
D28	ADDITIVES ELEVATOR BAGHOUSE	6758, PSDTX145M2
E01	RAW BYPASS DROP TO SHED	6758, PSDTX145M2
E03	BELT DROP TO RAW BIN	6758, PSDTX145M2
F05	RETURN ELEVATOR BAGHOUSE	6758, PSDTX145M2
F09	BLENDING SILO BAGHOUSE	6758, PSDTX145M2
FGD-1	LOADER DROP TO ADDITIVE HOPPER	106.261/11/01/2003 [106517]
FGD-2	LOADER DROP TO ADDITIVE HOPPER	106.261/11/01/2003 [106517]
FGD-3	SYNTHETIC GYPSUM TRANSFER TO BELT #1	106.261/11/01/2003 [106517]
FGD-4	SYNTHETIC GYPSUM TRANSFER TO BELT #2	106.261/11/01/2003 [106517]
H07	ELEVATOR BAGHOUSE	6758, PSDTX145M2

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**
H09	AEOROPOL FEED BAGHOUSE	6758, PSDTX145M2
K02	KILN STACK	6758, PSDTX145M2
K38	CLINKER ELEVATOR BAGHOUSE	6758, PSDTX145M2
L02	HOT CLINKER BAGHOUSE	6758, PSDTX145M2
L04	DOME 1 BAGHOUSE	6758, PSDTX145M2
L07	DOME 1 BOTTOM BAGHOUSE	6758, PSDTX145M2
L08	TRUCK LOADOUT SILO BAGHOUSE	6758, PSDTX145M2
L27	CLINKER DOME 2 BOTTOM BAGHOUSE	6758, PSDTX145M2
L29	CLINKER FEED BELT BAGHOUSE	6758, PSDTX145M2
L30	DOME 2 BAGHOUSE	6758, PSDTX145M2
M-02	ADDITIVES BELT BAGHOUSE	6758, PSDTX145M2
M-12	REVERSIBLE BELT/GYP BIN BAGHOUSE	6758, PSDTX145M2
M-13	CLINKER/LIMESTONE BINS BAGHOUSE	6758, PSDTX145M2
M-14	SPECIAL CLINKER BIN BAGHOUSE	6758, PSDTX145M2
M-18	SPECIAL CLINKER FEEDER BELT BAGHOUSE	6758, PSDTX145M2
M-19	SPECIAL CLINKER FEEDER BELT BAGHOUSE	6758, PSDTX145M2
M-21	GYPSUM DRAGCHAIN TO BELT #1	6758, PSDTX145M2
M-23	GYPSUM DRAGCHAIN TO BELT #2	6758, PSDTX145M2
M-24	LIMESTONE WEIGHFEEDERS, BELT #1	6758, PSDTX145M2
M-25	LIMESTONE WEIGHFEEDERS, BELT #2	6758, PSDTX145M2
M-26	CLINKER FEED BELT BAGHOUSE	6758, PSDTX145M2

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**
M-34	FE LOADER DROP TO HOPPER	106.261/09/04/2000 [45698]
M-34A	HOPPER DROP TO HOPPER	106.261/09/04/2000 [45698]
M-34B	SCREW TRANSFER (M3401 TO M3402)	106.261/09/04/2000 [45698]
M-34C	SCREW CONVEYOR DROP TO WEIGH FEEDER	106.261/09/04/2000 [45698]
M-35	FE LOADER DROP TO SLAG HOPPER #2	106.261/09/04/2000 [47246]
M-35A	HOPPER #2 DROP TO SCREW CONVEYOR	106.261/09/04/2000 [47246]
M-35B	CONVEYOR TRANSFER (M36 TO M30)	106.261/09/04/2000 [47246]
M-79	SILO 2 BAGHOUSE	6758, PSDTX145M2
M-98	ADDITIVES STORAGE PILES	106.261/12/24/1998 [40897, 40895]
M-99	TRUCK ROAD FUGITIVES	106.261/12/24/1998 [40895]
M01	LOADING DROP TO ADDITIVE HOPPER	6758, PSDTX145M2
M04	ADDITIVE BELT BAGHOUSE	6758, PSDTX145M2
N-136A	SILO 1 BAGHOUSE	6758, PSDTX145M2
N-80	SILO 3 BAGHOUSE	6758, PSDTX145M2
N02	FM #1 SEPARATOR BAGHOUSE	6758, PSDTX145M2
N06A	FM# 1 ELEVATOR BAGHOUSE	6758, PSDTX145M2
N16A	FM #1 AIRSLIDES BAGHOUSE	6758, PSDTX145M2
N52	FM #2 SEPARATOR BAGHOUSE	6758, PSDTX145M2
N56A	FM #2 ELEVATOR BAGHOUSE	6758, PSDTX145M2
N66A	FM #2 AIRSLIDES BAGHOUSE	6758, PSDTX145M2
N72	FM #1 BELT BAGHOUSE	6758, PSDTX145M2

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**
N72B	FM#1 BELT BAGHOUSE	6758, PSDTX145M2
N73	FM #2 BELT BAGHOUSE	6758, PSDTX145M2
N97	SILOS 4-7 BAGHOUSE	6758, PSDTX145M2
Q10	LOADER DROP TO OUTSIDE RAW HOPPERS	6758, PSDTX145M2
Q13	LIMESTONE SCREENER	6758, PSDTX145M2, 106.261/11/01/2003 [170868]
Q14	LIMESTONE SCREENER TO BELTS	6758, PSDTX145M2, 106.261/11/01/2003 [170868]
Q21	SCREENED LIMESTONE CONVEYOR BELT	6758, PSDTX145M2, 106.261/11/01/2003 [170868]
R09	SILO 1 LOADOUT BAGHOUSE	6758, PSDTX145M2
R102	MANNED BAGGER ELEVATOR BAGHOUSE	6758, PSDTX145M2
R19	SILO 2 LOADOUT BAGHOUSE	6758, PSDTX145M2
R29	SILO 3 LOADOUT BAGHOUSE	6758, PSDTX145M2
R39	SILOS 8-11 LOADOUT BAGHOUSE	6758, PSDTX145M2
R49	SILOS 4-7 LOADOUT BAGHOUSE	6758, PSDTX145M2
R59	SILOS 12-15 LOADOUT BAGHOUSE	6758, PSDTX145M2
R75	ROTARY BAGGING ELEVATOR BAGHOUSE	6758, PSDTX145M2
S07	BELT DROP TO SHUTTLE BELT	6758, PSDTX145M2
S08	COAL STORAGE BUILDING FUGITIVES	6758, PSDTX145M2
S11	DROP TO IMPACT BELT, EAST PILE	6758, PSDTX145M2
S13	DROP TO IMPACT BELT, WEST PILE	6758, PSDTX145M2
S18	IMPACT BELTS DROP TO FEEDER BIN	6758, PSDTX145M2
S20	MILL BELT DROP TO FEEDER BIN	6758, PSDTX145M2

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**
S30	COAL MILL BAGHOUSE	106.262/11/01/2003 [87105]
S37	COAL BIN BAGHOUSE	6758, PSDTX145M2
S44	COALAND COKE UNLOADING BAGHOUSE	6758, PSDTX145M2
S98	COAL LOADER DROP TO HOPPER	6758, PSDTX145M2
SILO12-15	SILOS 12-15	6758, PSDTX145M2
SILO8-11	SILOS 8-11 BAGHOUSE	6758, PSDTX145M2
T01	EMERGENCY GENERATOR (LAKE)	106.511/09/04/2000
T13	EMERGENCY GENERATOR (KILN)	106.511/09/04/2000

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

Appendix A

Acronym List

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

ACFM ..... actual cubic feet per minute
AMOC ..... alternate means of control
ARP ..... Acid Rain Program
ASTM ..... American Society of Testing and Materials
B/PA ..... Beaumont/Port Arthur (nonattainment area)
CAM ..... Compliance Assurance Monitoring
CD ..... control device
CEMS ..... continuous emissions monitoring system
CFR ..... Code of Federal Regulations
COMS ..... continuous opacity monitoring system
CVS ..... closed vent system
D/FW ..... Dallas/Fort Worth (nonattainment area)
EP ..... emission point
EPA ..... U.S. Environmental Protection Agency
EU ..... emission unit
FCAA Amendments ..... Federal Clean Air Act Amendments
FOP ..... federal operating permit
gr/100 scf ..... grains per 100 standard cubic feet
HAP ..... hazardous air pollutant
H/G/B ..... Houston/Galveston/Brazoria (nonattainment area)
H_2S ..... hydrogen sulfide
ID No. ..... identification number
lb/hr ..... pound(s) per hour
MACT ..... Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr ..... Million British thermal units per hour
NA ..... nonattainment
N/A ..... not applicable
NADB ..... National Allowance Data Base
NESHAP ..... National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO_x ..... nitrogen oxides
NSPS ..... New Source Performance Standard (40 CFR Part 60)
NSR ..... New Source Review
ORIS ..... Office of Regulatory Information Systems
Pb ..... lead
PBR ..... Permit By Rule
PEMS ..... predictive emissions monitoring system
PM ..... particulate matter
ppmv ..... parts per million by volume
PRO ..... process unit
PSD ..... prevention of significant deterioration
psia ..... pounds per square inch absolute
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

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (11)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
Clinker Production							
Q-1 Group (5)	Quarrying (6)	PM	14.61	13.49	14	14, 33	32
		PM_{10}	8.64	9.59			
B-06	Crushing Operation Baghouse Stack	PM	0.60	2.52	14	14, 33	32
		PM_{10}	0.60	2.52			
RMS Group (7)	Transport to Raw Material Storage Bins/RMS (6)	PM	5.58	4.62	14	14, 33	32
		PM_{10}	1.33	1.21			
D-28	Additives Elevator Baghouse	PM	0.94	3.96	5, 14	5, 14, 33	5, 32
		PM_{10}	0.94	3.96			

Major NSR Summary Table

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
K-19	Grinding/Preheating/Kiln ESP Stack (8)	PM (filterable)	32.24	135.41	5, 7, 16, 26	5, 7, 16, 26, 33	5, 7, 32
		PM_{10} (filterable)	32.24	135.41			
		PM (condensable)	4.09	17.19			
		PM_{10} (condensable)	4.09	17.19			
		PM (total)	36.33	152.59			
		PM_{10} (total)	36.33	152.59			
		NO_x	660.0	2772.0			
		SO_2	20.00	84.0			
		VOC	15.00	63.00			
		CO	460.00	1932.0			
		HCl	2.00	8.76			
		H_2SO_4	2.00	8.40			
F-11	Blending Silo Baghouse	PM	1.03	4.32	5, 14	5, 14, 33	5, 32
		PM_{10}	1.03	4.32			
F-12	Return Elevator Baghouse	PM	0.26	1.08	5, 14	5, 14, 33	5, 32
		PM_{10}	0.26	1.08			

Major NSR Summary Table

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (11)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
H-06	Aeropol Feed Baghouse	PM	0.17	0.72	5, 14	5, 14, 33	5, 32
		PM_{10}	0.17	0.72			
H-07	Elevator Baghouse	PM	0.21	0.86	5, 14	5, 14, 33	5, 32
		PM_{10}	0.21	0.86			
L-12	Clinker Elevator Baghouse Stack	PM	0.45	1.91	5, 14	5, 14, 33	5, 32
		PM_{10}	0.45	1.91			
L-13	Hot Clinker Baghouse Stack	PM	0.43	1.80	5, 14	5, 14, 33	5, 32
		PM_{10}	0.43	1.80			
L-14	Dome I Baghouse Stack	PM	0.45	1.89	5, 14	5, 14, 33	5, 32
		PM_{10}	0.45	1.89			
L-15	Dome I Bottom Baghouse Stack	PM	0.32	1.44	5, 14	5, 14, 33	5, 32
		PM_{10}	0.32	1.44			
L-16	Truck Loadout Silo Baghouse Stack	PM	1.03	4.32	5, 14	5, 14, 33	5, 32
		PM_{10}	1.03	4.32			
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM	0.21	0.86	5, 14	5, 14, 33	5, 32
		PM_{10}	0.21	0.86			

Major NSR Summary Table

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
L-19	Dome 2 Baghouse Stack	PM	0.12	0.50	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.50			
Finish Milling							
M-02	Additive Belt Baghouse Stack	PM	0.25	1.04	5, 14	5, 14, 33	5, 32
		PM_{10}	0.25	1.04			
M-04	Additive Belt Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
M-06	Reversible Belt/Gyp Bin Baghouse Stack	PM	0.25	1.04	5, 14	5, 14, 33	5, 32
		PM_{10}	0.25	1.04			
M-09	Clinker/Limestone Bins Baghouse Stack	PM	0.30	1.26	5, 14	5, 14, 33	5, 32
		PM_{10}	0.30	1.26			
M-10	Special Clinker Bin Baghouse Stack	PM	0.21	0.86	5, 14	5, 14, 33	5, 32
		PM_{10}	0.21	0.86			
M-28	Clinker Feeder Belt Baghouse Stack	PM	0.33	1.40	5, 14	5, 14, 33	5, 32
		PM_{10}	0.33	1.40			
M-29	Clinker Feeder Belt Baghouse	PM	0.25	1.04	5, 14	5, 14, 33	5, 32

Major NSR Summary Table

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (11)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
	Stack	PM_{10}	0.25	1.04			
M-32	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04	5, 14	5, 14, 33	5, 32
		PM_{10}	0.25	1.04			
M-33	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04	5, 14	5, 14, 33	5, 32
		PM_{10}	0.25	1.04			
N-09	FM No. 1 Elevator Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
N-13	FM No. 1 Separator Baghouse Stack	PM	2.52	10.58	5, 14	5, 14, 33	5, 32
		PM_{10}	1.26	5.29			
N-20	Fly Ash Bins Baghouse Stack	PM	0.17	0.72	5, 14	5, 14, 33	5, 32
		PM_{10}	0.17	0.72			
N-22	FM No. 1 Airslides Baghouse Stack	PM	0.72	3.02	5, 14	5, 14, 33	5, 32
		PM_{10}	0.36	1.51			
N-59	FM No. 2 Elevator Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
N-63	FM No. 2 Separator Baghouse	PM	2.52	10.58	5, 14	5, 14, 33	5, 32

Major NSR Summary Table

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Stack	PM_{10}	1.26	5.29			
N-69	FM No. 2 Airslides Baghouse Stack	PM	0.72	3.02	5, 14	5, 14, 33	5, 32
		PM_{10}	0.36	1.51			
N-94a	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
N-94b	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
N-95	FM No. 2 Belt Baghouse Stack	PM	0.25	1.04	5, 14	5, 14, 33	5, 32
		PM_{10}	0.25	1.04			
N-96	Silos 12-15 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
N-97	Silos 4-7 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
N-98	Silo 2 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
N-99	Silo 1 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32

Major NSR Summary Table

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lb/hour	TPY (4)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10}	0.15	0.63			
N-100	Silo 3 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
N-101	Silos 8-11 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
Loadout and Bagging Operation							
R-08	Silo 1 Loadout Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
R-18	Silo 2 Loadout Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
R-28	Silo 3 Loadout Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
R-38	Silos 8-11 Loadout Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
R-48	Silos 4-7 Loadout Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			

Major NSR Summary Table

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (11)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
R-58	Silos 12-15 Loadout Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
R-70	Rotary Bagging Elevator Baghouse Stack	PM	1.26	5.29	5, 14	5, 14, 33	5, 32
		PM_{10}	1.26	5.29			
R-90	Manned Bagger Elevator Baghouse Stack	PM	1.26	5.29	5, 14	5, 14, 33	5, 32
		PM_{10}	1.26	5.29			
F-1 Group (9)	Material Handling (6)	PM	5.78	5.71	5, 14	5, 14, 33	5, 32
		PM_{10}	2.76	2.71			
Coal and Coke Operation							
S-01 Group (10)	Coal/Coke Stockpiles (6)	PM	0.60	1.71	5, 14	5, 14, 33	5, 32
		PM_{10}	0.28	0.81			
S-98	Coal and Coke Road Hopper (6)	PM	1.80	7.90	5, 14	5, 14, 33	5, 32
		PM_{10}	0.90	4.00			
S-44	Coal and Coke Unloading Baghouse Stack	PM	0.64	2.70	5, 14	5, 14, 33	5, 32
		PM_{10}	0.64	2.70			
S-30	Coal Mill Baghouse	PM	2.14	9.00	5, 14	5, 14, 33	5, 32

Major NSR Summary Table

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Permit Numbers: 6758 and PSDTX145M1					Issuance Date: 03/29/2023		
Emission Point No. (1)	**Source Name (2)**	**Air Contaminant Name (3)**	**Emission Rates (11)**		**Monitoring and Testing Requirements**	**Recordkeeping Requirements**	**Reporting Requirements**
			lb/hour	**TPY (4)**	**Special Condition/Application Information**	**Special Condition/Application Information**	**Special Condition/Application Information**
		PM_{10}	2.14	9.00			
S-56	Coal Bin Baghouse	PM	0.60	2.52	5, 14	5, 14, 33	5, 32
		PM_{10}	0.60	2.52			
Planned Maintenance Activities							
MSSFUG1	Inherently Low Emitting (ILE) Planned Maintenance Activities (6)	NO_x	<0.01	<0.01	25	24, 33	
		PM	0.77	0.64			
		PM_{10}	0.55	0.63			
		$PM_{2.5}$	0.24	0.31			
		VOC	2.35	<0.01			
MSSFUG2	Non-ILE Planned Maintenance Activities (6)	NO_x	1.27	0.18	25	24, 33	
		CO	2.69	0.21			
		PM	10.60	0.73			
		PM_{10}	8.30	0.55			
		$PM_{2.5}$	4.40	0.23			

(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) The emission limitations for EPN Q-1 GROUP authorize emissions from EPNs Q-01, Q-02, Q-04, Q-05, Q-06, Q-07, Q-09, Q-10, and C-05.

(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(7) The emission limitations for EPN RMS GROUP authorize emissions from EPNs M-99, D-99, and M-98.

(8) Emissions from K-19 must comply with New Source Performance Standard, Subpart F.

(9) The emission limitations for EPN F-1 GROUP authorize emissions from EPNs C-07, C-08, D-01, D-04, D-05, D-11, D-14, D-15, D-16, E-01, E-03, M-01, M-21, M-23, M-24, M-25, D-20, S-07, S-08, S-11, S-13, S-18, and S-20.

(10) The emission limitations for EPN S-01 GROUP authorize emissions from EPNs S-99, CCS, and CLS.

(11) Planned maintenance, startup, and shutdown (MSS) emissions are included.

Major NSR Summary Table

The emission limits in this table become effective upon the start of operation of Kiln No. 2, or upon start of operation of the source, whichever is sooner.

Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
AL-233-BH15	Kiln No. 2 Baghouse 15	NO_X	232.50	958.13	5, 7, 21,16, 27, 28, 31	5, 7, 21, 27, 28, 16, 33	5, 7, 21, 27, 28, 32
		CO	310.00	1066.71			
		VOC	15.50	51.10			
		PM (7)	29.14	63.76			
		PM_{10} (7)	28.64	61.59			
		$PM_{2.5}$ (7)	13.11	28.69			
		SO_2	8.80	36.28			
		H_2SO_4	2.78	1.74			
		NH_3	34.34	150.42			
		HCl (7)	6.30	27.60			
		Pb	0.002	0.007			
		HF	0.29	1.21			
		Hg (7)	0.003	0.01			
AL-503-BH62	FM3 Heater	NO_X	1.96	4.41		33	32
		CO	1.65	3.71			

Major NSR Summary Table

The emission limits in this table become effective upon the start of operation of Kiln No. 2, or upon start of operation of the source, whichever is sooner.

Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		VOC	0.11	0.24			
		PM	17.36	76.03			
		PM_{10}	14.58	63.87			
		$PM_{2.5}$	4.34	19.01			
		SO_2	0.59	1.32			
Q-1	Quarry Limestone Mining Fugitives (6)	PM	5.29	11.94			
		PM_{10}	3.97	8.96	14	14, 33	32
		$PM_{2.5}$	0.56	1.25			
Q-2	Quarry Limestone Mining Pile (6)	PM	0.58	2.12			
		PM_{10}	0.29	1.06	14	14, 33	32
		$PM_{2.5}$	0.12	0.42			
Q-4	Quarry Loader Drop to Truck (6)	PM	0.65	1.35			
		PM_{10}	0.31	0.64	14	14, 33	32
		$PM_{2.5}$	0.05	0.10			
Q-6	Outside Shale	PM	0.30	1.08	14	14, 33	32

Major NSR Summary Table

The emission limits in this table become effective upon the start of operation of Kiln No. 2, or upon start of operation of the source, whichever is sooner.

Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Stockpile (6)	PM_{10}	0.15	0.54			
		$PM_{2.5}$	0.06	0.22			
Q-7	Outside Limestone Stockpile (6)	PM	0.59	2.17			
		PM_{10}	0.30	1.08	14	14, 33	32
		$PM_{2.5}$	0.12	0.43			
Q-9	Limestone Truck Dump to Hopper (6)	PM	0.11	0.41			
		PM_{10}	0.05	0.19	14	14, 33	32
		$PM_{2.5}$	<0.01	0.03			
Q-10	Loader Drop to Outside Raw Hoppers (6)	PM	0.11	0.41			
		PM_{10}	0.05	0.19	14	14, 33	32
		$PM_{2.5}$	<0.01	0.03			
Q12	Limestone Screener Pile	PM	0.08	0.36			
		PM_{10}	0.04	0.18	14	14, 33	32
		$PM_{2.5}$	0.01	0.03			
Q13	Limestone	PM	1.80	0.19	5, 14, 30	5, 14, 30, 33	5, 32

Major NSR Summary Table

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Screener	PM_{10}	1.10	0.11			
		$PM_{2.5}$	0.17	0.02			
		NO_X	0.09	0.05			
		CO	1.08	0.65			
		VOC	0.04	0.02			
		SO_2	0.27	0.16			
		HAPs	0.0036	0.0021			
Q14	Limestone Screener to Belts	PM	0.78	0.06	5, 14, 30	5, 14, 30, 33	5, 32
		PM_{10}	0.37	0.03			
		$PM_{2.5}$	0.06	<0.01			
Q15	Limestone Fines Pile	PM	0.04	0.18	14	14, 33	32
		PM_{10}	0.02	0.09			
		$PM_{2.5}$	<0.01	0.01			
Q16	Drop to Limestone Fines Haul Truck	PM	0.78	0.02	14	14, 33	32
		PM_{10}	0.37	0.01			

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.06	<0.01			
Q18	Screened Limestone Pile	PM	0.08	0.36	14	14, 33	32
		PM_{10}	0.04	0.18			
		$PM_{2.5}$	0.01	0.03			
Q19	Drop to Masonry Limestone Haul Truck	PM	0.78	0.06	14	14, 33	32
		PM_{10}	0.37	0.03			
		$PM_{2.5}$	0.06	<0.01			
B-06	Existing Crusher Baghouse B-6	PM	1.22	4.09	14	14, 33	32
		PM_{10}	1.02	3.44			
		$PM_{2.5}$	0.30	1.02			
C-07	Belt Drop to Reversible Belt (6)	PM	0.06	0.21	14	14, 33	32
		PM_{10}	0.03	0.10			
		$PM_{2.5}$	<0.01	0.02			
C-08	Return Belt Drop to Crusher Hopper (6)	PM	0.06	0.21	14	14, 33	32
		PM_{10}	0.03	0.10			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	<0.01	0.02			
D-01	Limestone Storage Building Fugitives (6)	PM	0.12	0.44	5, 14	5, 14, 33	5, 32
		PM_{10}	0.06	0.21			
		$PM_{2.5}$	<0.01	0.03			
D-04	Belt Drop to Limestone Bin (6)	PM	0.04	0.16	5, 14	5, 14, 33	5, 32
		PM_{10}	0.02	0.08			
		$PM_{2.5}$	<0.01	0.01			
D-05	Limestone Bin Drop to Mill Belt (6)	PM	0.04	0.16	5, 14	5, 14, 33	5, 32
		PM_{10}	0.02	0.08			
		$PM_{2.5}$	<0.01	0.01			
D-11	Shale Storage Building Fugitives (6)	PM	0.03	0.09	5, 14	5, 14, 33	5, 32
		PM_{10}	0.01	0.04			
		$PM_{2.5}$	<0.01	<0.01			
D-14	Belt Drop to Shale Bin (6)	PM	<0.01	0.02	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	0.01			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	<0.01	<0.01			
D-15	Shale Bin Drop to Mill Belt (6)	PM	<0.01	0.02	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	0.01			
		$PM_{2.5}$	<0.01	<0.01			
D-16	FE Loader Drop to Hopper (6)	PM	0.95	3.47	5, 14	5, 14, 33	4, 32
		PM_{10}	0.45	1.64			
		$PM_{2.5}$	0.07	0.25			
D-20	Sand/Additive Conveyor Drop to Hopper (6)	PM	0.26	0.93	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.44			
		$PM_{2.5}$	0.02	0.07			
E-01	Raw By-Pass Drop to Shed (6)	PM	<0.01	<0.01	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	<0.01			
		$PM_{2.5}$	<0.01	<0.01			
E-03	Belt Drop to Raw Mill Bin (6)	PM	0.01	0.06	5, 14	5, 14, 33	5, 32
		PM_{10}	0.01	0.03			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	<0.01	<0.01			
M-21	Gypsum Weighfeeder to Belt #1 (6)	PM	0.09	0.07	5, 14	5, 14, 33	5, 32
		PM_{10}	0.04	0.03			
		$PM_{2.5}$	0.01	0.01			
M-23	Gypsum Dragchain to Belt #2 (6)	PM	0.09	0.07	5, 14	5, 14, 33	5, 32
		PM_{10}	0.04	0.03			
		$PM_{2.5}$	0.01	0.01			
M-24	Limestone Weighfeeders, Belt #1 (6)	PM	0.09	0.07	5, 14	5, 14, 33	5, 32
		PM_{10}	0.04	0.03			
		$PM_{2.5}$	0.01	0.01			
M-25	Limestone Weighfeeders, Belt #2 (6)	PM	0.09	0.07	5, 14	5, 14, 33	5, 32
		PM_{10}	0.04	0.03			
		$PM_{2.5}$	0.01	0.01			
S-07	Belt Drop to Coal Shuttle Belt (6)	PM	0.01	0.04	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	0.02			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	<0.01	<0.01			
S-08	Coal/Coke Storage Building Fugitives (6)	PM	0.01	0.04	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	0.02			
		$PM_{2.5}$	<0.01	<0.01			
S-11	Drop to Impact Belt, East Pile (6)	PM	0.03	0.12	5, 14	5, 14, 33	5, 32
		PM_{10}	0.02	0.06			
		$PM_{2.5}$	<0.01	<0.01			
S-13	Drop to Impact Belt, West Pile (6)	PM	0.03	0.12	5, 14	5, 14, 33	5, 32
		PM_{10}	0.02	0.06			
		$PM_{2.5}$	<0.01	<0.01			
S-18	Impact Belt Drop to Mill Belt (6)	PM	0.01	0.04	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	0.02			
		$PM_{2.5}$	<0.01	<0.01			
S-20	Mill Belt Drop to Feeder Bin (6)	PM	0.01	0.04	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	0.02			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	<0.01	<0.01			
D-99	Sand Storage Pile (6)	PM	0.86	3.13	14	14, 33	32
		PM_{10}	0.43	1.57			
		$PM_{2.5}$	0.17	0.63			
M-98	Additives Storage Pile (6)	PM	0.20	0.72	14	14, 33	32
		PM_{10}	0.10	0.36			
		$PM_{2.5}$	0.04	0.14			
D-98	Sand/Iron Storage Pile Drop/Pick-up (6)	PM	0.13	0.47	14	14, 33	32
		PM_{10}	0.06	0.22			
		$PM_{2.5}$	0.01	0.03			
D36	Bottom Ash Bin Baghouse	PM	0.72	3.14	5, 14	5, 14, 33	5, 32
		PM_{10}	0.60	2.64			
		$PM_{2.5}$	0.18	0.79			
D-28	Additives Elevator Baghouse	PM	0.67	2.93	5, 14	5, 14, 33	5, 32
		PM_{10}	0.56	2.46			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.17	0.73			
AL-201-BH2	Chalk Storage Feed Conveyor BH 2	PM	0.09	0.41	5, 14	5, 14, 33	5, 32
		PM_{10}	0.08	0.35			
		$PM_{2.5}$	0.02	0.10			
AL-201-BH3	New Chalk Storage Dome BH3	PM	0.16	0.70	5, 14	5, 14, 33	5, 32
		PM_{10}	0.13	0.59			
		$PM_{2.5}$	0.04	0.17			
AL-201-BH4	R-Sand Inlet Conveyor Storage Bin BH4	PM	0.16	0.68	5, 14	5, 14, 33	5, 32
		PM_{10}	0.13	0.57			
		$PM_{2.5}$	0.04	0.17			
AL-201-BH5	Chalk Storage Dome Conveyor BH5	PM	0.16	0.71	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.60			
		$PM_{2.5}$	0.04	0.18			
AL-201-BH6	Chalk Storage Dome Conveyor BH6	PM	0.16	0.71	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.60			

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.04	0.18			
AL-201-BH7	Chalk Storage 2nd Conveyor Drop BH7	PM	0.16	0.71	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.60			
		$PM_{2.5}$	0.04	0.18			
AL-201-BH8	Bottom Ash Storage Bin Drop BH8	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			
		$PM_{2.5}$	0.04	0.19			
AL-201-BH9	Additive Drop Conveyor BH9	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			
		$PM_{2.5}$	0.04	0.19			
AL-233-BH14	Raw Mill System No. 2 BH14	PM	0.27	1.16	5, 14	5, 14, 33	5, 32
		PM_{10}	0.22	0.98			
		$PM_{2.5}$	0.07	0.29			
AL-233-MF-6000	Reject Bin Drop to Front Loader (6)	PM	<0.01	<0.01	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	<0.01			

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			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	<0.01	<0.01			
AL-233-BH11	1st RM 3 Feed Conveyor Drop BH11	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			
		$PM_{2.5}$	0.04	0.19			
AL-241-BH25	Blending & Raw Mix Storage BH25	PM	0.12	0.54	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.45			
		$PM_{2.5}$	0.03	0.13			
AL-241-BH26	Blending & Raw Mix Storage BH26	PM	0.12	0.54	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.45			
		$PM_{2.5}$	0.03	0.13			
AL-241-BH27	Blending & Raw Mix Storage BH27	PM	0.12	0.54	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.45			
		$PM_{2.5}$	0.03	0.13			
AL-241-BH28	Blending & Raw Mix Storage BH28	PM	0.12	0.54	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.45			

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			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.03	0.13			
AL-241-BH29	Blending & Raw Mix Storage BH29	PM	0.12	0.54	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.45			
		$PM_{2.5}$	0.03	0.13			
AL-241-BH30	Blending & Raw Mix Storage BH30	PM	0.12	0.54	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.45			
		$PM_{2.5}$	0.03	0.13			
AL-302-BH20	Kiln No. 2 Feed System BH20	PM	0.22	0.98	5, 14	5, 14, 33	5, 32
		PM_{10}	0.19	0.82			
		$PM_{2.5}$	0.06	0.25			
AL-302-BH21	Kiln No. 2 Feed System BH21	PM	0.14	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.53			
		$PM_{2.5}$	0.04	0.16			
AL-302-BH22	Kiln No. 2 Feed System BH22	PM	0.12	0.54	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.45			

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			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.03	0.13			
AL-302-BH23	Kiln No. 2 Feed System BH23	PM	0.12	0.54	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.45			
		$PM_{2.5}$	0.03	0.13			
AL-330-BH35	Clinker Conveying & Storage BH35	PM	0.14	0.62	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.52			
		$PM_{2.5}$	0.04	0.15			
AL-330-BH36	Clinker Conveying & Storage BH36	PM	0.14	0.62	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.52			
		$PM_{2.5}$	0.04	0.15			
AL-330-BH37	Clinker Conveying & Storage BH37	PM	0.08	0.36	5, 14	5, 14, 33	5, 32
		PM_{10}	0.07	0.30			
		$PM_{2.5}$	0.02	0.09			
AL-330-BH38	Clinker Conveying & Storage BH38	PM	0.41	1.81	5, 14	5, 14, 33	5, 32
		PM_{10}	0.35	1.52			

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			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.10	0.45			
CLS	Clinker Storage Pile (6)	PM	0.10	0.36	5, 14	5, 14, 33	5, 32
		PM_{10}	0.05	0.18			
		$PM_{2.5}$	0.02	0.07			
CCS	Coal/Coke Stockpiles (6)	PM	0.46	1.66	14	14, 33	32
		PM_{10}	0.23	0.83			
		$PM_{2.5}$	0.09	0.33			
AL-330-BH40	Clinker Conveying & Storage BH40	PM	0.09	0.38	5, 14	5, 14, 33	5, 32
		PM_{10}	0.07	0.32			
		$PM_{2.5}$	0.02	0.10			
AL-330-BH41	Clinker Conveying & Storage BH41	PM	0.14	0.62	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.52			
		$PM_{2.5}$	0.04	0.15			
AL-330-BH42	Clinker Conveying & Storage BH42	PM	0.14	0.62	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.52			

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			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.04	0.15			
AL-330-BH43	Clinker Conveying & Storage BH43	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-330-BH44	Clinker Conveying & Storage BH44	PM	0.18	0.77	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.65			
		$PM_{2.5}$	0.04	0.19			
AL-330-BH45	Clinker Conveying & Storage BH45	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			
		$PM_{2.5}$	0.04	0.18			
AL-330-BH46	Clinker Conveying & Storage BH46	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			
		$PM_{2.5}$	0.04	0.18			
AL-330-BH47	Clinker Conveying & Storage BH47	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			

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			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.04	0.18			
AL-330-BH48	Clinker Conveying & Storage BH48	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			
		$PM_{2.5}$	0.04	0.18			
AL-330-BH49	Clinker Conveying & Storage BH49	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			
		$PM_{2.5}$	0.04	0.18			
AL-530-BH64	Cement Silos 1st Inlet Conveyor BH64	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-330-BH51	Clinker Conveying & Storage BH51	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-330-BH52	Clinker Conveying & Storage BH52	PM	0.17	0.74	5, 14	5, 14, 33	5, 32
		PM_{10}	0.14	0.62			

Major NSR Summary Table

The emission limits in this table become effective upon the start of operation of Kiln No. 2, or upon start of operation of the source, whichever is sooner.

Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.04	0.18			
M-01	Loader Drop to Additive Hopper (6)	PM	0.83	3.03	5, 14	5, 14, 33	5, 32
		PM_{10}	0.39	1.43			
		$PM_{2.5}$	0.06	0.22			
M-02	Additive Belt Baghouse M-02	PM	0.19	0.85	5, 14	5, 14, 33	5, 32
		PM_{10}	0.16	0.71			
		$PM_{2.5}$	0.05	0.21			
M-04	Additive Belt Baghouse M-04	PM	0.12	0.51	5, 14	5, 14, 33	5, 32
		PM_{10}	0.10	0.43			
		$PM_{2.5}$	0.03	0.13			
M-06	Reversible Belt/Gyp Bin Baghouse M-06	PM	0.19	0.85	5, 14	5, 14, 33	5, 32
		PM_{10}	0.16	0.71			
		$PM_{2.5}$	0.05	0.21			
M-09	Clinker/Limestone Bins Baghouse M-09	PM	0.23	1.03	5, 14	5, 14, 33	5, 32
		PM_{10}	0.20	0.86			

Major NSR Summary Table

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.06	0.26			
M-10	Special Clinker Bin Baghouse M-10	PM	0.16	0.70	5, 14	5, 14, 33	5, 32
		PM_{10}	0.13	0.59			
		$PM_{2.5}$	0.04	0.18			
AL-503-BH60	Finish Mill #3 Grinding BH60	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-503-BH61	Finish Mill #3 Grinding BH61	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-503-BH63	Finish Mill #3 Grinding BH63	PM	0.13	0.56	5, 14	5, 14, 33	5, 32
		PM_{10}	0.11	0.47			
		$PM_{2.5}$	0.03	0.14			
AL-530-BH65	Cement Silos BH65	PM	0.13	0.56	5, 14	5, 14, 33	5, 32
		PM_{10}	0.11	0.47			

Major NSR Summary Table

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.03	0.14			
AL-530-BH66	Cement Silos BH66	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-530-BH67	Cement Silos BH67	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
R-08	Silo #1 Loadout Baghouse	PM	0.11	0.49	5, 14	5, 14, 33	5, 32
		PM_{10}	0.09	0.41			
		$PM_{2.5}$	0.03	0.12			
R-18	Silo #2 Loadout Baghouse	PM	0.11	0.49	5, 14	5, 14, 33	5, 32
		PM_{10}	0.09	0.41			
		$PM_{2.5}$	0.03	0.12			
R-28	Silo #3 Loadout Baghouse	PM	0.11	0.49	5, 14	5, 14, 33	5, 32
		PM_{10}	0.09	0.41			

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.03	0.12			
R-38	Silo #8 through #11 Loadout Baghouse	PM	0.11	0.49	5, 14	5, 14, 33	5, 32
		PM_{10}	0.09	0.41			
		$PM_{2.5}$	0.03	0.12			
R-48	Silo #4 through #7 Loadout Baghouse	PM	0.11	0.49	5, 14	5, 14, 33	5, 32
		PM_{10}	0.09	0.41			
		$PM_{2.5}$	0.03	0.12			
R-58	Silo #12 through #15 Loadout Baghouse	PM	0.11	0.49	5, 14	5, 14, 33	5, 32
		PM_{10}	0.09	0.41			
		$PM_{2.5}$	0.03	0.12			
AL-530-6000-BH68	New Silo #16 Loadout BH68	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-530-6000-BH69	New Silo #17 Loadout BH69	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			

Major NSR Summary Table

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.04	0.16			
AL-530-6000-BH70	Cement Silo #18 Inlet Drop BH70	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-530-6000-BH71	Cement Silo #19 Inlet Drop BH71	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-530-6000-BH72	Cement Silo #18 Loadout BH72	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
AL-530-6000-BH73	Cement Silo #19 Loadout BH73	PM	0.15	0.65	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.55			
		$PM_{2.5}$	0.04	0.16			
S-44	Coal/Coke Unloading Baghouse	PM	0.47	2.07	5, 14	5, 14, 33	5, 32
		PM_{10}	0.40	1.74			

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.12	0.52			
S-98	Coal/Coke Drop to Hopper (6)	PM	0.02	0.07	5, 14	5, 14, 33	5, 32
		PM_{10}	<0.01	0.04			
		$PM_{2.5}$	<0.01	<0.01			
S-56	Coal Bin Baghouse	PM	0.44	1.93	5, 14	5, 14, 33	5, 32
		PM_{10}	0.37	1.62			
		$PM_{2.5}$	0.11	0.48			
S-30	Coal Mill Baghouse	PM	1.57	6.89	5, 14	5, 14, 33	5, 32
		PM_{10}	1.32	5.79			
		$PM_{2.5}$	0.39	1.72			
AL-354-BH55	Coal Mill System BH55	PM	2.14	9.35	5, 14	5, 14, 33	5, 32
		PM_{10}	1.79	7.86			
		$PM_{2.5}$	0.53	2.34			
L-13	Hot Clinker Baghouse	PM	0.27	1.17	5, 14	5, 14, 33	5, 32
		PM_{10}	0.22	0.98			

Major NSR Summary Table

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.07	0.29			
L-14	Dome 1 Baghouse	PM	0.28	1.23	5, 14	5, 14, 33	5, 32
		PM_{10}	0.24	1.03			
		$PM_{2.5}$	0.07	0.31			
L-15	Dome 1 Bottom Baghouse Stack	PM	0.21	0.94	5, 14	5, 14, 33	5, 32
		PM_{10}	0.18	0.79			
		$PM_{2.5}$	0.05	0.23			
L-16	Truck Loadout Silo Baghouse	PM	0.64	2.81	5, 14	5, 14, 33	5, 32
		PM_{10}	0.54	2.36			
		$PM_{2.5}$	0.16	0.70			
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM	0.13	0.56	5, 14	5, 14, 33	5, 32
		PM_{10}	0.11	0.47			
		$PM_{2.5}$	0.03	0.14			
L-19	Dome 2 Baghouse	PM	0.07	0.33	5, 14	5, 14, 33	5, 32
		PM_{10}	0.06	0.28			

Major NSR Summary Table

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		$PM_{2.5}$	0.02	0.08			
S54	Solid Fuel Mill Pumps Baghouse	PM	0.06	0.25	5, 14	5, 14, 33	5, 32
		PM_{10}	0.05	0.21			
		$PM_{2.5}$	0.01	0.06			
MSS-KL2	Kiln Line No. 2 MSS Emissions (6)	NO_X	1.28	0.19	25	24, 25, 33	25
		CO	2.69	0.21			
		VOC	2.35	0.01			
		PM	11.37	1.37			
		PM_{10}	8.85	1.18			
		$PM_{2.5}$	4.64	0.54			
		SO_2	0.01	0.01			
NH3TK-1	Ammonia Storage Tank No. 1 (6)	NH_3	5.33	0.11	18, 19	19, 33	
NH3TK-2	Ammonia Storage Tank No. 2 (6)	NH_3	5.33	0.11	18, 19	19, 33	
K-2/K-19	Existing Kiln No. 1	PM (7)	36.33	152.59	5, 7, 16, 21, 26, 27, 28, 31	5, 7, 16, 21, 27, 28, 33	5, 7, 21, 27, 28, 32

Major NSR Summary Table

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
		PM_{10} (7)	36.33	152.59			
		$PM_{2.5}$ (7)	16.35	68.67			
		NO_X	550.00	1567.61			
		SO_2	20.00	84.00			
		VOC	15.00	63.00			
		CO	460.00	1932.00			
		HCl	2.00	8.76			
		H_2SO_4	2.00	8.40			
F-11	Blending Silo Baghouse	PM	0.82	3.46	5, 14	5, 14, 33	5, 32
		PM_{10}	0.69	2.90			
		$PM_{2.5}$	0.21	0.87			
F-12	Return Elevator Baghouse	PM	0.21	0.86	5, 14	5, 14, 33	5, 32
		PM_{10}	0.17	0.73			
		$PM_{2.5}$	0.05	0.22			
H-06	Aeropol Feed	PM	0.14	0.58	5, 14	5, 14, 33	5, 32

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Baghouse	PM_{10}	0.12	0.48			
		$PM_{2.5}$	0.03	0.14			
H-07	Elevator Baghouse	PM	0.16	0.69			
		PM_{10}	0.14	0.58	5, 14	5, 14, 33	5, 32
		$PM_{2.5}$	0.04	0.17			
L-12	Clinker Elevator Baghouse	PM	0.36	1.53			
		PM_{10}	0.31	1.28	5, 14	5, 14, 33	5, 32
		$PM_{2.5}$	0.09	0.38			
M-28	Clinker Feeder Belt Baghouse Stack	PM	0.33	1.40			
		PM_{10}	0.33	1.40	5, 14	5, 14, 33	5, 32
		$PM_{2.5}$	0.08	0.35			
M-29	Clinker Feeder Belt Baghouse Stack	PM	0.25	1.04			
		PM_{10}	0.25	1.04	5, 14	5, 14, 33	5, 32
		$PM_{2.5}$	0.06	0.26			
M-32	Special Clinker	PM	0.25	1.04	5, 14	5, 14, 33	5, 32

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Permit Numbers: 6758 and PSDTX145M2					Issuance Date: 03/29/2023		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Feeder Belt Baghouse	PM_{10}	0.25	1.04			
		$PM_{2.5}$	0.06	0.26			
M-33	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04	5, 14	5, 14, 33	5, 32
		PM_{10}	0.25	1.04			
		$PM_{2.5}$	0.06	0.26			
N-09	FM No. 1 Elevator Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-13	FM No. 1 Separator Baghouse Stack	PM	2.02	8.46	5, 14	5, 14, 33	5, 32
		PM_{10}	1.01	4.23			
		$PM_{2.5}$	0.50	2.12			
N-20	Fly Ash Bins Baghouse Stack	PM	0.14	0.58	5, 14	5, 14, 33	5, 32
		PM_{10}	0.12	0.48			
		$PM_{2.5}$	0.03	0.14			
N-22	FM No. 1 Airslides	PM	0.58	2.42	5, 14	5, 14, 33	5, 32

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Baghouse Stack	PM_{10}	0.29	1.21			
		$PM_{2.5}$	0.14	0.60			
N-59	FM No. 2 Elevator Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-63	FM No. 2 Separator Baghouse Stack	PM	2.02	8.46	5, 14	5, 14, 33	5, 32
		PM_{10}	1.01	4.23			
		$PM_{2.5}$	0.50	2.12			
N-69	FM No. 2 Airslides Baghouse Stack	PM	0.58	2.42	5, 14	5, 14, 33	5, 32
		PM_{10}	0.29	1.21			
		$PM_{2.5}$	0.14	0.60			
N-94a	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-94b	FM No. 1 Belt	PM	0.15	0.63	5, 14	5, 14, 33	5, 32

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Baghouse Stack	PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-95	FM No. 2 Belt Baghouse Stack	PM	0.25	1.04	5, 14	5, 14, 33	5, 32
		PM_{10}	0.25	1.04			
		$PM_{2.5}$	0.06	0.26			
N-96	Silo #12 through #15 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-97	Silo #4 through #7 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-98	Silo #2 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-99	Silo #1 Baghouse	PM	0.15	0.63	5, 14	5, 14, 33	5, 32

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Stack	PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-100	Silo #3 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
N-101	Silo #8 through #11 Baghouse Stack	PM	0.15	0.63	5, 14	5, 14, 33	5, 32
		PM_{10}	0.15	0.63			
		$PM_{2.5}$	0.04	0.16			
R-70	Rotary Bagging Elevator Baghouse Stack	PM	1.01	4.23	5, 14	5, 14, 33	5, 32
		PM_{10}	0.85	3.56			
		$PM_{2.5}$	0.25	1.06			
R-90	Manned Bagger Elevator Baghouse Stack	PM	1.01	4.23	5, 14	5, 14, 33	5, 32
		PM_{10}	0.85	3.56			
		$PM_{2.5}$	0.25	1.06			
MSSFUG1	Inherently Low	NO_X	<0.01	<0.01	25	24, 25, 33	25

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour	TPY (5)	Special Condition/Application Information	Special Condition/Application Information	Special Condition/Application Information
	Emitting (ILE) Planned Maintenance Activities (6)	PM	0.77	0.64			
		PM_{10}	0.55	0.63			
		$PM_{2.5}$	0.24	0.31			
		VOC	2.35	<0.01			
MSSFUG2	Non-ILE Planned Maintenance Activities (6)	NO_X	1.27	0.18	25	24, 25, 33	25
		CO	2.69	0.21			
		PM	10.60	0.73			
		PM_{10}	8.30	0.55			
		$PM_{2.5}$	4.40	0.23			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_X - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide

Pb - lead
HCl - hydrogen chloride
HF - hydrogen fluoride
Hg - mercury

(4) Planned maintenance, startup, and shutdown (MSS) emissions are included.
(5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(6) Emission rate is an estimate and an enforceable limit. Fugitive emission compliance will be demonstrated through compliance with the applicable special condition(s) and permit application representations.
(7) Compliance is based on a 30 operating day rolling average excluding periods of startup / shutdown (SU/SD) as defined in 40 CFR §63.1341.

Major NSR Summary Table

The emission limits in this table become effective upon the start of operation of Kiln No. 2, or upon start of operation of the source, whichever is sooner.

Permit Number: GHGPSDTX143				Issuance Date: 03/29/2023		
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
AL-233-BH15	Kiln No. 2 Baghouse 15	CH_4 (5)	64	41, 42	42, 43, 44	42
		N_2O (5)	9			
		CO_2 (5)	1,213,625			
		CO_2e	1,218,008			
AL-503-BH62	FM3 Heater / Grinding BH 62	CH_4 (5)	<1		43, 44	
		N_2O (5)	<1			
		CO_2 (5)	5,294			
		CO_2e	5,305			
K-2/K-19	Kiln No. 1	CH_4 (5)	50		43, 44	
		N_2O (5)	7			
		CO_2 (5)	937,470			
		CO_2e	940,856			
MSS-KL2	Kiln Line No. 2 MSS Emissions	CO_2 (5)	14		43, 44	
		CO_2e	14			

(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
Alamo Cement Company
Authorizing the Construction and Operation of
Cement Plant
Located at **San Antonio, Bexar County, Texas**
Latitude 29.611944 Longitude -98.375833

Permits: 6758, GHGPSDTX143, and PSDTX145M2

Revision Date: March 29, 2023

Expiration Date: January 11, 2031

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)]

1. **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]
2. **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)]
3. **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)]
4. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
5. **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)]
6. **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.
7. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit. [1]

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

Common Acronyms in Air Permits

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

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

Special Conditions

Permit Numbers 6758, PSDTX145M2, and GHGPSDTX143

Emission Standards, Fuel Specification, and Operating Requirements

1. This permit authorizes only those sources of emissions listed in the attached tables entitled "Emission Sources - Maximum Allowable Emission Rates Permit Numbers 6758 and PSDTX145M1" (M1 MAERT) and "Emission Sources - Maximum Allowable Emission Rates Permit Numbers 6758 and PSDTX145M2" (M2 MAERT). These sources are restricted to the emission limits and other conditions specified in each attached table. M1 MAERT emission limits remain in effect until the start of operation of Kiln No. 2. For all sources within both the M1 MAERT and the M2 MAERT, the M2 MAERT emission limits become effective upon the start of operation of Kiln No. 2 M2 MAERT emission limits for all new sources become effective upon start of operation of the source. In addition to the emissions from routine operations, this permit authorizes emissions from planned maintenance, startup, and shutdown (MSS) activities, and those emissions shall comply with the limits specified in the M1 MAERT and M2 MAERT. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities and Attachment B identifies the non-ILE planned maintenance activities that are authorized by this permit. **(03/23)**

2. Compliance with the M1 MAERT and M2 MAERT, as applicable, emission limits is based on the following limits: **(03/23)**

	Maximum tons per hour (tph)	Tons per year (tpy)
Crusher capacity **(06/17)**	1250	7,403,000[1]
Kiln No. 1 Raw dry feed rate	200	1,680,000
Kiln No. 2 Raw dry feed rate **(06/17)**	250	2,190,000
Kiln No. 1 Clinker Production	124	1,086,240
Kiln No. 2 Clinker Production **(06/17)**	155	1,277,500
Limestone Screener throughput **(08/22)**	500	104,000

Note 1: The crusher capacity shall be limited to 2,000,000 tpy until startup of Kiln No. 2 operations.

3. Crusher material shall be quarried on site. Raw feed shall be comprised of limestone, shale, sand, mill scale, blast furnace slag, fly ash, bottom ash, glass, clay, and overburden.

   The above Kiln No. 1 feed rate may be replaced in part with diesel contaminated soil received from Alamo Cement Company or a subsidiary company, Alamo Concrete Products, but shall not exceed 2 tph nor 5,000 tpy replacement. The Kiln No. 1 feed rate may also be replaced in part with reclaimed coal and coal contaminated soil from the Longhorn Plant. There shall be no increase in

emissions or increase in production as a result of this feed rate replacement with diesel contaminated soil or reclaimed coal and coal contaminated soil. **(11/20)**

4. The raw material grinding mills shall not exceed a combined throughput limit of 500 tph of processed material, effective upon the start of operation of Kiln No. 2. Prior to the startup of Kiln No. 2, the existing two grinding mills shall not exceed a combined throughput limit of 240 tph of processed material. **(03/23)**

5. These facilities shall comply with all applicable requirements of the following regulations:

   A. The Texas Commission on Environmental Quality (TCEQ) regulations in Title 30 Texas Administrative Code (30 TAC) Chapter 117, Division 2 – Cement Kilns.

   B. The United States Environmental Protection Agency (EPA) Standards of Performance for New Stationary Sources (NSPS) in Title 40 Code of Federal Regulations (40 CFR) Part 60:

      (1) Subpart A – General Provisions;

      (2) Subpart F - Portland Cement Plants;

      (3) Subpart Y – Coal Preparation and Processing Plants; and

      (4) Subpart OOO – Nonmetallic Mineral Processing Plants. **(06/17)**

   C. The EPA National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Source Categories in 40 CFR Part 63:

      (1) Subpart A - General Provisions; and

      (2) Subpart LLL - Portland Cement Manufacturing Industry.

   D. 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.

6. The holder of this permit shall burn coal, petroleum coke, a coal/coke blend, reclaimed coal or coal contaminated soil from the Longhorn Plant, and/or natural gas in the kiln/calciner system. **(11/20)**

7. The kilns are subject to the following federal requirements / limits: **(06/17)**

Table 7A – Kiln No. 1 Requirements

Contaminant	Limit	Other conditions
Particulate Matter (PM) filterable ($PM/PM_{10}/PM_{2.5}$)	0.07 pounds filterable PM per ton (lb/T) clinker or alternative PM limit calculated using Equation 1 of 40 CFR 63.1343(b)(2)	30 operating day rolling average excluding periods of startup / shutdown (SU/SD) as defined in 40 CFR 63.1341
Total Hydrocarbons (THC) OR alternative limit on Organic Hazardous Air Pollutants (OHAP)	24 parts per million THC (as propane) by volume dry (ppmvd) corrected to 7 percent oxygen (% O_2) OR	30 operating day rolling average excluding periods of SU/SD as defined in 40 CFR 63.1341.
	12 ppmvd total OHAP corrected to 7% O_2	30-day THC site-specific limit based on compliance testing for OHAPS as identified in 40 CFR 63.1341.

1 Mercury (Hg)	55 lb/million tons clinker	30 operating day rolling average excluding periods of SU/SD as defined in 40 CFR 63.1341
1 Dioxins/Furans (D/F)	0.20 nanogram per dry standard cubic meter (TEQ), corrected to 7% O_2 when Temp > 400 °F OR 0.40 nanogram per dry standard cubic meter, corrected to 7% O_2, if average temperature at the inlet to the first PM control device during the D/F performance test is 400 °F or less.	

Table 7B – Kiln No. 2 Requirements

Contaminant	Limit	Other conditions
Particulate Matter (PM) filterable ($PM/PM_{10}/PM_{2.5}$)	0.02 pounds filterable PM per ton (lb/T) clinker	30 operating day rolling average excluding periods of SU/SD as defined in 40 CFR 63.1341
THC OR alternative limit on OHAP	24 parts per million THC (as propane) by volume dry (ppmvd) corrected to 7 percent oxygen (% O_2) OR	30 operating day rolling average excluding periods of SU/SD as defined in 40 CFR 63.1341
	12 ppmvd total OHAP corrected to 7% O_2	30-day THC site-specific limit based on compliance testing for OHAPS as identified in 40 CFR 63.1341.
Mercury (Hg)	21 lb/million tons clinker	30 operating day rolling average excluding periods of SU/SD as defined in 40 CFR 63.1341
Dioxins/Furans (D/F)	0.20 nanogram per dry standard cubic meter (TEQ), corrected to 7% O_2 when Temp > 400 °F OR 0.40 nanogram per dry standard cubic meter, corrected to 7% O_2, if average temperature at the inlet to the first PM control device during the D/F performance test is 400 °F or less.	

8. Emissions from Kiln No. 2 (EPN AL-233-BH15) shall not exceed the following limits: **(06/17)**

Contaminant	Limit	Other conditions
Nitrogen Oxides (NO_x)	1.5 lb/T clinker	30 operating day rolling average excluding periods of SU/SD
Carbon Monoxide (CO)	1.67 lb/T clinker	12 month rolling average
	310 lb/hr clinker	Hourly average
Sulfur Dioxide (SO_2)	0.4 lb/T clinker	30 day rolling average
	0.057 lb/T clinker	12 month rolling average
Hydrogen Chloride (HCl)	3 ppmvd corrected to 7% O_2	30 operating day rolling average excluding periods of SU/SD as defined in 40 CFR 63.1341

9. Emissions from each kiln shall not exceed the ammonia (NH_3) emission limit of 35 ppmvd corrected to 7% O_2, on a 24-hour rolling average basis. This limit becomes effective to both kilns upon the startup on Kiln No. 2. **(03/23)**

10. During startup, the kilns and/or precalciners shall use any one or combination of the following clean fuels: natural gas, synthetic natural gas, propane, distillate oil, synthesis gas (syngas), and ultra-low sulfur diesel (ULSD) until the kiln reaches a temperature of 1200 °F. Combustion of the primary kiln fuel may commence once the kiln temperature reaches 1200 °F. **(06/17)**

Selective Non-catalytic Reduction (SNCR)

11. For Kiln No. 2, SNCR NO_x control technology shall be operated as required to comply with the NO_x emissions limits in Special Condition No. 8 and the M2 MAERT during all periods of normal kiln operation. Normal kiln operation does not include the following circumstances: **(03/23)**

    A. MSS activity when the pyroprocess operating temperature is too low (i.e. below 1200 °F) for proper SNCR operation; and

    B. an imminent or actual breakdown or excursion of the process, or other process that results in unauthorized emissions; or when a detached or secondary plume is observed by using EPA Test Method (TM) 22 of Appendix A-7 in 40 CFR Part 60. The permit holder must notify the TCEQ Regional Office within 24 hours of a positive EPA TM 22 observation of a detached or secondary plume. This notification does not satisfy excess opacity event reporting requirements under 30 TAC § 101.201.

Baghouses

12. Baghouses shall be operated upon startup of Kiln No. 2 as required to control particulate matter (PM) emissions from the below EPNs, with the specified outlet grain loading: **(03/23)**

	EPNs	Outlet Grain Loading (grains/dry standard cubic feet)		
		PM	PM_{10}	$PM_{2.5}$
Baghouses modified by 2017	AL-233-BH15, AL-503-BH62, AL-201-BH2, AL-201-BH3, AL-201-BH4, AL-201-BH5, AL-201-BH6, AL-201-BH7, AL-201-BH8, AL-201-	0.007	0.0059	0.0018

Amend-ment	BH9, AL-233-BH14, AL-233-BH11, AL-241-BH25, AL-241-BH26, AL-241-BH27, AL-241-BH28, AL-241-BH29, AL-241-BH30, AL-302-BH20, AL-302-BH21, AL-302-BH22, AL-302-BH23, AL-330-BH35, AL-330-BH36, AL-330-BH37, AL-330-BH38, AL-330-BH40, AL-330-BH41, AL-330-BH42, AL-330-BH43, AL-330-BH44, AL-330-BH45, AL-330-BH46, AL-330-BH47, AL-330-BH48, AL-330-BH49, AL-354-BH55, AL-530-BH64, AL-330-BH51, AL-330-BH52, AL-503-BH60, AL-503-BH61, AL-503-BH63, AL-530-BH65, AL-530-BH66, AL-530-BH67, AL-530-6000-BH68, AL-530-6000-BH69, AL-530-6000-BH70, AL-530-6000-BH71, AL-530-6000-BH72, AL-530-6000-BH73			
Baghouses unmodified by 2017 Amend-ment	L-13, L-14, L-15, L-16, L-18, L-19, B-06, D-28, D36, M-02, M-04, M-06, M-09, M-10, R-08, R-18, R-28, R-38, R-48, R-58, S-44, S-54, S-56, S-30, K-2/K-19, F-11, F-12, H-06, H-07, L-12, M-29, M-32, M-33, N-09, N-13, N-20, N-22, N-59, N-63, N-69, N-94a, N-94b, N-95, N-96, N-97, N-98, N-99, N-100, N-101, R-70, R-90	0.008	0.0067	0.002

Opacity/Visible Emission Limitations

13. Opacity of emissions shall not exceed the limits in the table below: **(03/23)**

Source	Opacity Limit (for any six-minute period)
Kiln No. 1 Exhaust (EPN K-2/K-19)	20%
Kiln No. 2 Exhaust (EPN AL-233-BH15)	10%
Baghouses unmodified by 2017 Amendment (indicated in last row of Special Condition No. 12)	10%
Baghouses modified by 2017 Amendment (indicated in middle row of Special Condition No. 12)	10%
Limestone Screener (EPN Q13)	7%

14. Observations for visible emissions shall be performed and recorded monthly while the facility is in operation. The visible emission determination must be made in accordance with 40 CFR Part 60, Appendix A, Test Method 22. The observation period when conducting Method 22 shall extend for at least one minute during normal operations. Contributions from uncombined water shall not be included in determining compliance with this condition. If visible emissions are observed, then the permit holder must conduct a six-minute test of opacity in accordance with 40 CFR Part 60 Appendix A, Test Method 9. The Method 9 test must begin within one hour of any observation of visible emissions.

15. A street sweeper or other mobile equipment shall be employed to keep the plant roads clean. Dust and debris shall be controlled and collected material will be either returned to the process or disposed of with appropriate control procedures as required to limit environmental impacts. **(06/17)**

16. The permit holder shall install, calibrate, operate, and maintain PM continuous parametric monitoring system (CPMS) to monitor and record the applicable site-specific operating parameters for the kilns (EPNs K-2/K-19 and AL-233-BH15) and clinker coolers (EPN K-19 and AL-233-BH15) in accordance with 40 CFR Part 63, Subpart LLL and 40 CFR Part 60, Subpart F for the Kiln.

    A PM CPMS that has passed the initial certification requirements of 40 CFR Part 63, Subpart LLL may be used instead of a continuous opacity monitoring system (COMS). A site-specific relationship between PM emissions and opacity measurements shall be developed to establish a level of CPMS output that reliably corresponds to the required opacity in Special Condition No. 13. Compliance with such a CPMS level will be considered to demonstrate compliance with the State opacity limits for the kilns and clinker coolers; however, the TCEQ may use EPA Test Method 9 to determine opacity at any time. **(06/17)**

Operational Limitations and Work Practices

17. The company shall comply with the following:

    A. A wet spray (water and/or dust suppressant chemicals) shall be applied when visible dust emissions can be observed at the primary crusher or limestone screener. **(08/22)**

    B. All exposed stockpiles of kiln raw materials, coal, petroleum coke, coal contaminated soil, masonry limestone, and all transfer points not enclosed or equipped with dust collection equipment, shall be sprinkled or sprayed with water and/or dust-suppressant chemicals when appropriate and as necessary to control dust emissions. Partially enclosed or enclosed stockpiles are not considered exposed for the purposes of this condition. **(08/22)**

    C. The top of all conveyor belts shall be covered. All conveyor belt transfer points shall be enclosed. To the extent necessary to achieve compliance with opacity limits, these transfer points will either be vented to a dust collector or equipped with a wet spray (water and/or dust suppressant chemicals). The dust collectors or wet spray shall be operated when appropriate and as necessary to achieve compliance with the opacity limits. **(06/17)**

    D. Outgoing railroad cars and trucks used in transporting cement, clinkers, coal, and coke shall be cleaned and maintained as necessary to minimize fugitive emissions.

    E. General use roads, as described on the site map filed with the appropriate TCEQ Regional Office, shall be paved and cleaned as necessary to control the emission of dust to the minimum level possible under existing conditions. All other roads and traffic areas, as described on the map, shall be oiled or sprinkled with water and/or chemicals, as necessary, to control the emission of dust to the minimum level possible under existing conditions.

    F. Material collected by air pollution abatement equipment, which is not returned to the process, shall be disposed of in a manner that minimizes any emissions in transit and prevents any emissions after disposal. **(06/17)**

    G. Spillage of cement, clinker, or additives shall be cleaned up and contained or dampened as soon as practicable such that dust emissions from wind erosion, vehicle traffic, and other fugitive dust emissions are minimized. **(06/17)**

    H. The holder of this permit shall demonstrate that all hooding, duct, and collection systems are effective in minimizing fugitive emissions to meet BACT requirements for the sources which they are controlling; and these systems shall be maintained to this level. **(06/17)**

    I. Stockpiles Limestone Screener Pile, Limestone Fines Pile, and Screened Limestone Pile shall not exceed 45 feet in height. **(08/22)**

Aqueous Ammonia (06/17)

18. The permit holder shall maintain appropriate prevention and protection measures for the NH_3 storage system. NH_3 storage tank areas will be marked and protected so as to protect the NH_3 storage areas from accidents that could cause a rupture. The aqueous ammonia stored shall have a concentration of less than 20% NH_3 by weight.

19. In addition to the requirements of Special Condition No. 18, the permit holder shall maintain the piping and valves in NH_3 service as follows:

    A. Audio, visual, and olfactory (AVO) checks for NH_3 leaks shall be made daily when the kiln(s) are operating.

    B. Immediately, but no later than 24 hours following the detection of a leak, plant personnel shall take one or more of the following actions:

        (1) Locate and isolate the leak, if necessary.

        (2) Commence repair or replacement of the leaking component.

        (3) Use a leak collection or containment system to control the leak until repair or replacement can be made if immediate repair is not possible.

Initial Demonstration of Compliance (06/17)

20. Sampling ports and platforms shall be incorporated into the design of the Kiln No. 2 Stack according to the specifications set forth in "Chapter 2, Guidelines for Stack Sampling Facilities." Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Director.

21. To demonstrate compliance with the M2 MAERT and with the emission performance levels as specified in the special conditions, the holder of this permit shall perform stack sampling and/or other testing to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere. Sampling must be conducted in accordance with appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with EPA Test Methods. (TMs).

    The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at its expense. Production rates shall be recorded during each test run and entered in the final sampling report. Within 60 days of the completion of the sampling, the holder of this permit shall submit a copy of the final sampling report to the TCEQ Regional Office for review. **(03/23)**

    A. For Kiln No. 1 (EPN K2/K19): Initial determination of compliance for emissions of PM, NO_x, CO, SO_2, THC, and Hg shall be performed. Performance testing completed by February 1994 was done so to demonstrate initial compliance with applicable PM, NO_x, CO, THC and SO_2 limits. To demonstrate compliance with the standards found in the December 2012 NESHAP Subpart LLL rulemaking, Kiln No. 1 underwent February 2016 testing for PM emissions and the initial performance tests for THC and Hg were completed in October 2015 and October 2016, respectively.

    B. Air contaminants emitted from Kiln No. 2 to be tested for include PM_{10}, $PM_{2.5}$, HCl and VOC Initial determination of compliance for PM (filterable), D/F, THC, and Hg shall be performed in accordance with the applicable initial compliance requirements of 40 CFR Part 63, Subpart LLL.

C. 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.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper forms for recording pertinent data, and to review the format and procedures for submitting the test reports. In addition, TCEQ may identify species of PM_{10} and VOC to the permit holder that will be analyzed from the PM_{10} and VOC samples, should such speciation be necessary. The pretest meeting shall be conducted on-site at the facility in the presence of a qualified person knowledgeable about stack testing and the units being tested.

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.

D. The deadlines for the sampling specified in this permit may be extended. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office. EPA approval is required to grant additional time to comply with any applicable federal requirements such as 40 CFR Part 60 and 40 CFR Part 63.

E. Test waivers and alternate/equivalent procedure proposals for NSPS and NESHAPS for Source Categories testing which must have EPA approval shall be submitted to the TCEQ Regional Director.

F. Primary operating parameters that enable determination of production rates shall be monitored and recorded during the stack test. These parameters are to be proposed in the performance test plan. Additional stack testing as specified in §63.1349(b) may be required if the kiln achieves a production rate more than 10 percent higher than the rate that occurred during the most recent stack test performed after the issuance of this permit and the higher production rate may adversely affect compliance with an applicable standard.

G. Two copies of each initial demonstration of compliance sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed unless an extension is granted by the TCEQ Regional Office. Sampling reports shall comply with the provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:

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

(2) One copy to the TCEQ Austin Office of Air, Air Permits Division.

Planned Maintenance, Startup, and Shutdown

22. The holder of this permit shall minimize emissions during planned MSS activities by operating the facility and associated air pollution control equipment in accordance with good air pollution control practices and safe operating practices. **(06/17)**

23. Planned startup and shutdown activities associated with each kiln shall comply with the following definitions and requirements to minimize emissions: **(06/17)**

A. A startup of each kiln is defined in 40 CFR 63, Subpart LLL Provision 1341 and begins when the kiln's induced draft fan is turned on and fuel is fired in the main burner and ends when feed is being continuously introduced into the kiln for at least 120 minutes or when the feed rate exceeds 60% of its design capacity, whichever occurs first.

B. A planned shutdown of the kiln is limited to 48 hours. As defined in 40 CFR 63, Subpart LLL Provision 1341, shutdown of each kiln begins when feed to the kiln is halted and ends when continuous kiln rotation ceases. **(06/17)**

24. Compliance with the emissions limits for planned maintenance activities identified in this permit shall be demonstrated as follows: **(04/14)**

A. For ILE planned maintenance activities (Attachment A):

(1) The total emissions from all ILE planned maintenance activities shall be considered to be no more than the estimated potential to emit for those activities that are represented in the MSS permit amendment application and subsequent associated submittals.

(2) The permit holder shall annually review the continued validity of the estimated potential to emit as represented in the MSS permit amendment application and subsequent associated submittals. **(06/17)**

B. For each pollutant emitted during non-ILE planned maintenance activities (Attachment B), the permit holder shall do the following for each calendar month:

(1) Determine the total emissions of the pollutant that result from such non-ILE planned maintenance activities in accordance with the methods listed in Special Condition No. 25.

(2) Compare the pollutant's short-term (hourly) emissions during planned maintenance activities, as determined using one of the methods listed in Special Condition No. 25, to the applicable short-term planned MSS emissions limit in the M1 MAERT and M2 MAERT, as applicable. **(03/23)**

(3) Once the pollutant's emissions during planned maintenance activities have been measured for 12 months after the MSS permit amendment is issued, compare the rolling 12-month emissions of the pollutant, as determined using the monthly emission totals, to the applicable annual planned MSS emissions limit in the M1 MAERT and M2 MAERT, as applicable. **(03/23)**

25. Emissions from planned MSS activities authorized by this permit shall be determined by the use of an appropriate method, which may include but will not be limited to any of following methods: **(06/17)**

A. Use of a continuous emission monitoring systems (CEMS). The CEMS shall be certified to measure the pollutant's emission over the entire range of a planned maintenance activity.

B. Use of emission factors, including but not limited to, facility-specific parameters, manufacturer's emission factors, and/or engineering knowledge of the facility's operations.

C. Use of emissions data measured (by a CEMS or during emissions testing) during the same type of planned MSS activity occurring at or on an identical or similar facility, and correlation of that data with the facility's relevant operating parameters, including but not limited to, temperature, fuel input, and fuel sulfur content.

D. Use of emissions testing data collected during a planned maintenance activity occurring at or on the facility, and correlation of that data with the facility's relevant operating parameters, including but not limited to, temperature, fuel input, and fuel sulfur content.

Continuous Demonstration of Compliance

26. The holder of this permit shall install, calibrate and maintain CEMS to measure and record the NO_x, from the Kiln No. 1 stack, Emission Point Number (EPN) K-19.

    A. The CEMS shall meet the design and performance specifications, pass the field tests, and meet the installation requirements specified in Performance Specification No. 2, 40 CFR 60, Appendix B.

    B. Each system shall be zeroed and spanned daily and corrective action taken when the 24 hour drift exceeds two times the amount specified in Performance Specification 2, 40 CFR 60, Appendix B. Zero and span is not required on weekends or holidays if instrument technicians are not normally scheduled on those days. Each monitor shall be quality-assured at least quarterly using cylinder gas audits (CGAs) in accordance with 40 CFR 60, Appendix F, Procedure 1, Section 5.1.2, with the following exception: a relative accuracy test audit (RATA) is not required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality assured method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.

    C. Excess emissions of NO_x exist for each period during which the 30-day rolling average of emissions of NO_x as measured and recorded by the CEMS exceed the emission limitation listed on the M1 MAERT and M2 MAERT, as applicable. **(03/23)**

27. The holder of this permit shall install, calibrate and maintain CEMS (or employ draeger tubes for Hg measurements) to measure and record the NO_x, SO_2, THC, Hg, O_2 and CO concentrations, and continuous flow rate sensors to measure and record the exhaust flow rate, from Kiln No. 2 stack, EPN AL-233-BH15. The SO_2, NO_x, THC, Hg, and CO CEMS and the continuous flow rate sensor shall be used as a continuous emission monitoring system (CEMS) for SO_2, NO_x, THC, Hg, O_2 and CO. **(06/17)**

    A. The systems 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 portions of 40 CFR Part 60, Appendix B:

        (1) Performance Specification Nos. 2 through 4, for the CEMS; and

        (2) Performance Specification No. 6 for the flow rate sensors.

    B. Each CEMS shall be zeroed and spanned daily and corrective action taken when the 24 hour span drift exceeds two times the amount specified in Performance Specification 2, 40 CFR 60, Appendix B. Zero and span is not required on weekends or holidays if instrument technicians are not normally scheduled on those days. Each monitor shall be quality-assured at least quarterly using CGAs in accordance with 40 CFR 60, Appendix F, Procedure 1, Section 5.1.2, with the following exception: a RATA is not required once every four quarters (i.e., four successive quarterly CGA may be conducted). An equivalent quality assured method approved by the TCEQ may also be used. Successive quarterly audits shall occur no closer than two months.

    C. Excess emissions of NO_x exist for each period during which the 30-day rolling average of emissions of NO_x as measured and recorded by the CEMS exceed the emission limitation listed on the M2 MAERT. **(03/23)**

28. The NH_3 concentration in the Kiln No. 2 Exhaust Stack shall be tested or calculated according to one of the methods listed below and shall be tested or calculated according to frequency listed below. Testing for NH_3 slip is only required on days when the SNCR unit is in operation. **(06/17)**

A. The holder of this permit may install, calibrate, maintain, and operate a CEMS to measure and record the concentrations of NH_3. The NH_3 concentrations shall be corrected and reported in accordance with Special Condition No. 9 above.

B. The NH_3 slip may be measured using a sorbent or stain tube device specific for NH_3 measurement in the appropriate range. The frequency of sorbent or stain tube testing shall be monthly.

(1) If the sorbent or stain tube testing indicates an ammonia (NH_3) slip concentration that exceeds 35 parts per million (ppm) at any time, the permit holder shall begin NH_3 testing by either the Phenol-Nitroprusside Method, the Indophenol Method, or EPA Conditional Test Method (CTM) 27 on a quarterly basis in addition to the monthly sorbent or stain tube testing.

(2) If the quarterly testing indicates NH_3 slip is 35 ppm or less, the Phenol Nitroprusside Indophenol CTM 27 tests may be suspended until sorbent or stain tube testing again indicate 35 ppm NH_3 slip or greater.

C. The permit holder may install and operate a second NO_x CEMS probe located between the kiln and the SNCR, upstream of the stack NO_x CEMS, which may be used in association with the SNCR efficiency and NH_3 injection rate to estimate NH_3 slip. This condition shall not be construed to set a minimum NO_x reduction efficiency on the SNCR unit.

D. The permit holder may install and operate a dual stream system of NO_x CEMS at the exit of the SNCR. One of the exhaust streams would be routed, in an unconverted state, to one NO_x CEMS, and the other exhaust stream would be routed through a NH_3 converter to convert NH_3 to NO_x and then to a second NO_x CEMS. The NH_3 slip concentration shall be calculated from the delta between the two NO_x CEMS readings (converted and unconverted).

E. The permit holder may establish a correlation between the maximum NH_3 slip limit and maximum NH_3 injection rate or other surrogate parameter that may be monitored to determine compliance with NH_3 slip BACT requirements. Other alternative methods used for measuring NH_3 slip shall require prior written approval from the TCEQ Air Permits Division in Austin.

29. The holder of this permit shall install, calibrate and maintain systems and operate such systems as necessary to control contaminants regulated by 40 CFR 63, Subpart LLL to the emission limits set in Special Condition 7. **(06/17)**

30. The holder of this permit shall conduct a quarterly visible fugitive emissions determination to demonstrate compliance with the visible fugitive emissions limitation specified in this permit for EPNs Q13 and Q14. This visible fugitive 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 fugitive 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 fugitive emissions. The corrective action shall be documented within 24 business hours of completion. **(03/23)**

Compliance Condition

31. Upon request by the Executive Director of the TCEQ or any local air pollution control program having jurisdiction, the holder of this permit shall provide a sample and/or an analysis of the fuel(s) utilized in this facility or shall allow air pollution control agency representatives to obtain a sample

for analysis and also perform stack sampling and testing or perform volume sampling and testing as required.

Recordkeeping

32. The holder of this permit shall submit to the appropriate TCEQ Regional Office, on a semi-annual basis, an excess emissions and monitoring systems performance report for opacity consistent with the requirements of 30 TAC 122.145(2). **(06/17)**

33. The following information shall be maintained by the holder of this permit in a form suitable for inspection for a period of five years after collection and shall be made available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction: **(06/17)**

    A. Daily production rates shall be recorded and made available for inspection by the TCEQ and any local air pollution control programs. Records shall include daily clinker production and malfunctions in the process; daily raw material processing and handling sufficient to show compliance with Special Condition Nos. 2 and 3; and malfunctions of any air pollution abatement device systems. Data records shall be summed monthly to produce monthly records. **(08/18)**

    B. Records of visible emission observations as specified in Special Condition No. 14.

    C. Records of COMS or CPMS data as specified in Special Condition No. 16. **(06/17)**

    D. Records of CEMS emissions data to demonstrate compliance with the concentration limits in Special Conditions Nos. 7 and 8 and the emission rates listed in the M1 MAERT and M2 MAERT, as applicable. **(03/23)**

    E. For CEMS data needed to support Special Condition 33.D, all CEMS data on a 1-minute block average basis and 1-hour block average basis including calibration checks and adjustments and maintenance performed on these systems. **(03/23)**

    F. Records of planned MSS, including the following, to demonstrate compliance with Special Condition Nos. 23-25 and the M1 MAERT and M2 MAERT, as applicable: **(03/23)**

        (1) Records of startup and shutdown of each kiln, including the date, time, duration, and emissions associated with those activities.

        (2) Records of non-ILE planned maintenance activities and the associated emissions.

        (3) Records of ILE planned maintenance activities and annual validations.

    G. Records demonstrating compliance with NH_3 slip limits, upon startup of Kiln No. 2 operations. **(03/23)**

    H. Limestone Screener throughputs on a monthly and annual basis. **(8/22)**

Standard Permit and Permits by Rule Authorizations

34. The following facilities are authorized by standard permit: **(03/23)**

Facility	Registration Number	Authorization
Baghouse	170978	Pollution Control Project Standard Permit

Dry Process Cement Kiln (Kiln 1, SNCR system, **06/17**)	52237	Pollution Control Project Standard Permit

35. The table below lists the sources or activities that are authorized by standard exemption (SE) or permits by rule (PBR) under 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. **(04/14)**

Facility or Activity	Registration Number	Authorization
Limestone Handling Operation Facility	40895	PBR 106.261
Limestone Storage Silo and associated equipment	40896	PBR 106.144
Limestone Additive Handling	40897	PBR 106.261
Slag Feed System	45698	PBR 106.261
Outside Clinker Storage Facility	47246	PBR 106.261
Overland Conveyor System	50057	PBR 106.261
Coal Mill No. 2	87105	PBR 106.262
Containers, reservoirs, or tanks used to store fuel oils, kerosene, diesel fuel, lubricating oils and/or oil additives having a true vapor pressure of less than 0.5 pounds per square inch absolute	--	SE 58 (9/23/82)
Brazing, soldering, and welding	--	PBR 106.227
Maintenance painting	--	PBR 106.263
Enclosed and outdoor dry abrasive blasting	--	PBR 106.263 and/or PBR 106.452
Hand-held and equipment used for buffing, polishing, cutting, drilling, sanding, sawing, etc.	--	PBR 106.265
Solvent cleaning, parts degreaser	--	PBR 106.454
Emergency engines and portable small engines, over 12 months on site, including startup and shutdown	--	PBR 106.511
Sludge management	--	PBR 106.532
Organic chemical usage for water treatment	--	PBR 106.532

Other Conditions

36. Once Kiln No. 2 has been constructed and starts operation, the permit holder shall submit an alteration request to remove all language which refers to PSDTX145M1 or the M1 MAERT from the special conditions and the MAERT, as well as this special condition. **(03/23)**

37. The permittee is authorized for 8-week trial to use the Ultimate Cell Continuous Combustion (UC3) technology to evaluate the kiln energy efficiency and greenhouse gas emissions. The trail period will start from the commission of the UC3 system. During the trial period, Kiln No. 1 clinker hourly production limit may increase up to 10% provided the particulate matter emission is continuously monitored to ensure compliance with the standard of 0.07 lb PM/ton clinker in 40 CFR 63, Subpart LLL. **(06/21)**

Greenhouse Gases Special Conditions (06/17)

38. Emissions from Kiln No. 2 exhaust shall not exceed 0.961 tons carbon dioxide equivalent (CO_2e) per ton of produced clinker on a 12-month rolling average.

39. Kiln No. 2 is limited to production of no more than 1,277,500 tons of clinker during a rolling 12-month period.

40. Kiln No. 2 fan drive motors should include variable speed/variable frequency drive devices and will be operated in a manner that attempts to maximize energy efficiency. Kiln No. 2 induced draft fan drive motors may have the ability to operate with damper controls when necessary.

41. Initial determination of compliance as specified in Special Condition No. 21 shall also include sampling for CO_2.

    Provided it is conducted within the time frames and conforms with the notification requirements of this Special Condition and Special Condition No. 21, the CO_2 CEMs may satisfy for the initial performance test, in accordance with 40 CFR §98.34(c)(1), conforming with the Performance Specification 3 in appendix B to Part 60 for CO_2 concentration monitors and Performance Specification 5 in appendix B to Part 60 for the continuous rate monitoring system.

42. The permittee shall install, calibrate, maintain, and operate a CO_2 CEMS or other appropriate monitoring methodology and/or equipment to measure and record the concentration from Kiln No. 2 in accordance with the CO_2 CEMS system requirements in 40 CFR 75.10(a)(3) and (a)(5).

    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, Air Permits Division in Austin for requirements to be met.

       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 appropriate TCEQ Regional Director, and necessary corrective action shall be taken. Supplemental stack concentration measurements may be required at the discretion of the appropriate 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 by the source for a period of five years and shall be made available to the TCEQ Executive Director or a designated

representative upon request. The hourly average data from the CEMS shall be used to determine compliance with the conditions of this permit. Kiln No. 2 CEMS data shall also be used to produce TPY each month and used to determine compliance with the annual tonnage emission limits of this permit.

D. The appropriate TCEQ Regional Office shall be notified at least 30 days prior to any required RATAs in order to provide them the opportunity to observe the testing.

Greenhouse Gases Recordkeeping Requirements (06/17)

43. Upon startup of Kiln No. 2, 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. **(03/23)**

44. Upon startup of Kiln No. 2, 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. **(03/23)**

A. Daily and monthly clinker production rates.

B. Records of the average monthly consumption of fuels.

C. For each continuous emissions monitor, records of the nature and cause of any malfunction (if known), the corrective action taken, or preventive measures adopted shall be kept.

D. 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 CEMS data.

(2) Calculate total 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.

E. The monthly data from paragraph D 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 GHGPSDTX143 MAERT.

Attachment A

Permit Numbers 6758, PSDTX145M1, and PSDTX145M2

Inherently Low Emitting Maintenance Activities

Planned Maintenance Activity	VOC	NO_x	CO	PM	SO_2
Vacuum truck solids loading				x	
Vacuum truck solids unloading				x	
Material handling system maintenance				x	
Material handling system maintenance (air gun)				x	
CEMS calibration		x	x		x
Lube oil maintenance	x				
Gaseous fuel venting	x				
Refractory maintenance operations				x	
Miscellaneous particulate filter maintenance				x	
Kiln particulate filter maintenance				x	

Date: March 29, 2023

Attachment B

Permit Numbers 6758, PSDTX145M1, and PSDTX145M2

Non-Inherently Low Emitting Maintenance Activities

Planned Maintenance Activity	NH_3	VOC	NO_x	CO	PM	SO_2
Deslagging/descaling maintenance operations			x	x	x	

Date: March 29, 2023

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 6758 and PSDTX145M2

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.

The emission limits in this table become effective upon the start of operation of Kiln No. 2, or upon start of operation of the source, whichever is sooner.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lbs/hour	TPY (5)
AL-233-BH15	Kiln No. 2 Baghouse 15	NO_X	232.50	958.13
		CO	310.00	1066.71
		VOC	15.50	51.10
		PM (7)	29.14	63.76
		PM_{10} (7)	28.64	61.59
		$PM_{2.5}$ (7)	13.11	28.69
		SO_2	8.80	36.28
		H_2SO_4	2.78	1.74
		NH_3	34.34	150.42
		HCl (7)	6.30	27.60
		Pb	0.002	0.007
		HF	0.29	1.21
		Hg (7)	0.003	0.01
AL-503-BH62	FM3 Heater	NO_X	1.96	4.41
		CO	1.65	3.71
		VOC	0.11	0.24
		PM	17.36	76.03
		PM_{10}	14.58	63.87
		$PM_{2.5}$	4.34	19.01
		SO_2	0.59	1.32
Q-1	Quarry Limestone Mining Fugitives (6)	PM	5.29	11.94
		PM_{10}	3.97	8.96
		$PM_{2.5}$	0.56	1.25
Q-2	Quarry Limestone	PM	0.58	2.12

Emission Sources - Maximum Allowable Emission Rates

	Mining Pile (6)	PM_{10}	0.29	1.06
		$PM_{2.5}$	0.12	0.42
Q-4	Quarry Loader Drop to Truck (6)	PM	0.65	1.35
		PM_{10}	0.31	0.64
		$PM_{2.5}$	0.05	0.10
Q-6	Outside Shale Stockpile (6)	PM	0.30	1.08
		PM_{10}	0.15	0.54
		$PM_{2.5}$	0.06	0.22
Q-7	Outside Limestone Stockpile (6)	PM	0.59	2.17
		PM_{10}	0.30	1.08
		$PM_{2.5}$	0.12	0.43
Q-9	Limestone Truck Dump to Hopper (6)	PM	0.11	0.41
		PM_{10}	0.05	0.19
		$PM_{2.5}$	<0.01	0.03
Q-10	Loader Drop to Outside Raw Hoppers (6)	PM	0.11	0.41
		PM_{10}	0.05	0.19
		$PM_{2.5}$	<0.01	0.03
Q12	Limestone Screener Pile	PM	0.08	0.36
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
Q13	Limestone Screener	PM	1.80	0.19
		PM_{10}	1.10	0.11
		$PM_{2.5}$	0.17	0.02
		NO_X	0.09	0.05
		CO	1.08	0.65
		VOC	0.04	0.02
		SO_2	0.27	0.16
		HAPs	0.0036	0.0021
Q14	Limestone Screener to Belts	PM	0.78	0.06
		PM_{10}	0.37	0.03
Project Number: 353999		$PM_{2.5}$	0.06	<0.01
Q15	Limestone Fines Pile	PM	0.04	0.18

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	0.01
Q16	Drop to Limestone Fines Haul Truck	PM	0.78	0.02
		PM_{10}	0.37	0.01
		$PM_{2.5}$	0.06	<0.01
Q18	Screened Limestone Pile	PM	0.08	0.36
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
Q19	Drop to Masonry Limestone Haul Truck	PM	0.78	0.06
		PM_{10}	0.37	0.03
		$PM_{2.5}$	0.06	<0.01
B-06	Existing Crusher Baghouse B-6	PM	1.22	4.09
		PM_{10}	1.02	3.44
		$PM_{2.5}$	0.30	1.02
C-07	Belt Drop to Reversible Belt (6)	PM	0.06	0.21
		PM_{10}	0.03	0.10
		$PM_{2.5}$	<0.01	0.02
C-08	Return Belt Drop to Crusher Hopper (6)	PM	0.06	0.21
		PM_{10}	0.03	0.10
		$PM_{2.5}$	<0.01	0.02
D-01	Limestone Storage Building Fugitives (6)	PM	0.12	0.44
		PM_{10}	0.06	0.21
		$PM_{2.5}$	<0.01	0.03
D-04	Belt Drop to Limestone Bin (6)	PM	0.04	0.16
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
D-05	Limestone Bin Drop to Mill Belt (6)	PM	0.04	0.16
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
D-11	Shale Storage Building Fugitives (6)	PM	0.03	0.09
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
D-14	Belt Drop to Shale Bin	PM	<0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
D-15	Shale Bin Drop to Mill Belt (6)	PM	<0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
D-16	FE Loader Drop to Hopper (6)	PM	0.95	3.47
		PM_{10}	0.45	1.64
		$PM_{2.5}$	0.07	0.25
D-20	Sand/Additive Conveyor Drop to Hopper (6)	PM	0.26	0.93
		PM_{10}	0.12	0.44
		$PM_{2.5}$	0.02	0.07
E-01	Raw By-Pass Drop to Shed (6)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
E-03	Belt Drop to Raw Mill Bin (6)	PM	0.01	0.06
		PM_{10}	0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
M-21	Gypsum Weighfeeder to Belt #1 (6)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
M-23	Gypsum Dragchain to Belt #2 (6)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
M-24	Limestone Weighfeeders, Belt #1 (6)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
M-25	Limestone Weighfeeders, Belt #2 (6)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
S-07	Belt Drop to Coal Shuttle Belt (6)	PM	0.01	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
S-08	Coal/Coke Storage	PM	0.01	0.04

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
S-11	Drop to Impact Belt, East Pile (6)	PM	0.03	0.12
		PM_{10}	0.02	0.06
		$PM_{2.5}$	<0.01	<0.01
S-13	Drop to Impact Belt, West Pile (6)	PM	0.03	0.12
		PM_{10}	0.02	0.06
		$PM_{2.5}$	<0.01	<0.01
S-18	Impact Belt Drop to Mill Belt (6)	PM	0.01	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
S-20	Mill Belt Drop to Feeder Bin (6)	PM	0.01	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
D-99	Sand Storage Pile (6)	PM	0.86	3.13
		PM_{10}	0.43	1.57
		$PM_{2.5}$	0.17	0.63
M-98	Additives Storage Pile (6)	PM	0.20	0.72
		PM_{10}	0.10	0.36
		$PM_{2.5}$	0.04	0.14
D-98	Sand/Iron Storage Pile Drop/Pick-up (6)	PM	0.13	0.47
		PM_{10}	0.06	0.22
		$PM_{2.5}$	0.01	0.03
D36	Bottom Ash Bin Baghouse	PM	0.72	3.14
		PM_{10}	0.60	2.64
		$PM_{2.5}$	0.18	0.79
D-28	Additives Elevator Baghouse	PM	0.67	2.93
		PM_{10}	0.56	2.46
		$PM_{2.5}$	0.17	0.73
AL-201-BH2 Project Number: 353999	Chalk Storage Feed Conveyor BH 2	PM	0.09	0.41
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.02	0.10
AL-201-BH3	New Chalk Storage	PM	0.16	0.70

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.04	0.17
AL-201-BH4	R-Sand Inlet Conveyor Storage Bin BH4	PM	0.16	0.68
		PM_{10}	0.13	0.57
		$PM_{2.5}$	0.04	0.17
AL-201-BH5	Chalk Storage Dome Conveyor BH5	PM	0.16	0.71
		PM_{10}	0.14	0.60
		$PM_{2.5}$	0.04	0.18
AL-201-BH6	Chalk Storage Dome Conveyor BH6	PM	0.16	0.71
		PM_{10}	0.14	0.60
		$PM_{2.5}$	0.04	0.18
AL-201-BH7	Chalk Storage 2nd Conveyor Drop BH7	PM	0.16	0.71
		PM_{10}	0.14	0.60
		$PM_{2.5}$	0.04	0.18
AL-201-BH8	Bottom Ash Storage Bin Drop BH8	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.19
AL-201-BH9	Additive Drop Conveyor BH9	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.19
AL-233-BH14	Raw Mill System No. 2 BH14	PM	0.27	1.16
		PM_{10}	0.22	0.98
		$PM_{2.5}$	0.07	0.29
AL-233-MF-6000	Reject Bin Drop to Front Loader (6)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
AL-233-BH11	1st RM 3 Feed Conveyor Drop BH11	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.19
AL-241-BH25	Blending & Raw Mix Storage BH25	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-241-BH26	Blending & Raw Mix	PM	0.12	0.54

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.03	0.13
AL-241-BH27	Blending & Raw Mix Storage BH27	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-241-BH28	Blending & Raw Mix Storage BH28	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-241-BH29	Blending & Raw Mix Storage BH29	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-241-BH30	Blending & Raw Mix Storage BH30	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-302-BH20	Kiln No. 2 Feed System BH20	PM	0.22	0.98
		PM_{10}	0.19	0.82
		$PM_{2.5}$	0.06	0.25
AL-302-BH21	Kiln No. 2 Feed System BH21	PM	0.14	0.63
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.04	0.16
AL-302-BH22	Kiln No. 2 Feed System BH22	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-302-BH23	Kiln No. 2 Feed System BH23	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-330-BH35	Clinker Conveying & Storage BH35	PM	0.14	0.62
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.04	0.15
AL-330-BH36	Clinker Conveying & Storage BH36	PM	0.14	0.62
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.04	0.15
AL-330-BH37	Clinker Conveying &	PM	0.08	0.36

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.02	0.09
AL-330-BH38	Clinker Conveying & Storage BH38	PM	0.41	1.81
		PM_{10}	0.35	1.52
		$PM_{2.5}$	0.10	0.45
CLS	Clinker Storage Pile (6)	PM	0.10	0.36
		PM_{10}	0.05	0.18
		$PM_{2.5}$	0.02	0.07
CCS	Coal/Coke Stockpiles (6)	PM	0.46	1.66
		PM_{10}	0.23	0.83
		$PM_{2.5}$	0.09	0.33
AL-330-BH40	Clinker Conveying & Storage BH40	PM	0.09	0.38
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.02	0.10
AL-330-BH41	Clinker Conveying & Storage BH41	PM	0.14	0.62
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.04	0.15
AL-330-BH42	Clinker Conveying & Storage BH42	PM	0.14	0.62
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.04	0.15
AL-330-BH43	Clinker Conveying & Storage BH43	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-330-BH44	Clinker Conveying & Storage BH44	PM	0.18	0.77
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.04	0.19
AL-330-BH45	Clinker Conveying & Storage BH45	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
AL-330-BH46	Clinker Conveying & Storage BH46	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
AL-330-BH47	Clinker Conveying &	PM	0.17	0.74

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.04	0.18
AL-330-BH48	Clinker Conveying & Storage BH48	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
AL-330-BH49	Clinker Conveying & Storage BH49	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
AL-530-BH64	Cement Silos 1st Inlet Conveyor BH64	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-330-BH51	Clinker Conveying & Storage BH51	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-330-BH52	Clinker Conveying & Storage BH52	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
M-01	Loader Drop to Additive Hopper (6)	PM	0.83	3.03
		PM_{10}	0.39	1.43
		$PM_{2.5}$	0.06	0.22
M-02	Additive Belt Baghouse M-02	PM	0.19	0.85
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.05	0.21
M-04	Additive Belt Baghouse M-04	PM	0.12	0.51
		PM_{10}	0.10	0.43
		$PM_{2.5}$	0.03	0.13
M-06	Reversible Belt/Gyp Bin Baghouse M-06	PM	0.19	0.85
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.05	0.21
M-09	Clinker/Limestone Bins Baghouse M-09	PM	0.23	1.03
		PM_{10}	0.20	0.86
		$PM_{2.5}$	0.06	0.26
M-10	Special Clinker Bin	PM	0.16	0.70

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.04	0.18
AL-503-BH60	Finish Mill #3 Grinding BH60	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-503-BH61	Finish Mill #3 Grinding BH61	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-503-BH63	Finish Mill #3 Grinding BH63	PM	0.13	0.56
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.03	0.14
AL-530-BH65	Cement Silos BH65	PM	0.13	0.56
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.03	0.14
AL-530-BH66	Cement Silos BH66	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-BH67	Cement Silos BH67	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
R-08	Silo #1 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
R-18	Silo #2 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
R-28	Silo #3 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
R-38	Silo #8 through #11 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
R-48	Silo #4 through #7	PM	0.11	0.49

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.03	0.12
R-58	Silo #12 through #15 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
AL-530-6000-BH68	New Silo #16 Loadout BH68	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH69	New Silo #17 Loadout BH69	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH70	Cement Silo #18 Inlet Drop BH70	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH71	Cement Silo #19 Inlet Drop BH71	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH72	Cement Silo #18 Loadout BH72	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH73	Cement Silo #19 Loadout BH73	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
S-44	Coal/Coke Unloading Baghouse	PM	0.47	2.07
		PM_{10}	0.40	1.74
		$PM_{2.5}$	0.12	0.52
S-98	Coal/Coke Drop to Hopper (6)	PM	0.02	0.07
		PM_{10}	<0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
S-56	Coal Bin Baghouse	PM	0.44	1.93
		PM_{10}	0.37	1.62
		$PM_{2.5}$	0.11	0.48
S-30	Coal Mill Baghouse	PM	1.57	6.89

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.39	1.72
AL-354-BH55	Coal Mill System BH55	PM	2.14	9.35
		PM_{10}	1.79	7.86
		$PM_{2.5}$	0.53	2.34
L-13	Hot Clinker Baghouse	PM	0.27	1.17
		PM_{10}	0.22	0.98
		$PM_{2.5}$	0.07	0.29
L-14	Dome 1 Baghouse	PM	0.28	1.23
		PM_{10}	0.24	1.03
		$PM_{2.5}$	0.07	0.31
L-15	Dome 1 Bottom Baghouse Stack	PM	0.21	0.94
		PM_{10}	0.18	0.79
		$PM_{2.5}$	0.05	0.23
L-16	Truck Loadout Silo Baghouse	PM	0.64	2.81
		PM_{10}	0.54	2.36
		$PM_{2.5}$	0.16	0.70
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM	0.13	0.56
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.03	0.14
L-19	Dome 2 Baghouse	PM	0.07	0.33
		PM_{10}	0.06	0.28
		$PM_{2.5}$	0.02	0.08
S54	Solid Fuel Mill Pumps Baghouse	PM	0.06	0.25
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.01	0.06
MSS-KL2	Kiln Line No. 2 MSS Emissions (6)	NO_X	1.28	0.19
		CO	2.69	0.21
		VOC	2.35	0.01
		PM	11.37	1.37
		PM_{10}	8.85	1.18
		$PM_{2.5}$	4.64	0.54
		SO_2	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

NH3TK-1	Ammonia Storage Tank No. 1 (6)	NH_3	5.33	0.11
NH3TK-2	Ammonia Storage Tank No. 2 (6)	NH_3	5.33	0.11
K-2/K-19	Existing Kiln No. 1	PM (7)	36.33	152.59
		PM_{10} (7)	36.33	152.59
		$PM_{2.5}$ (7)	16.35	68.67
		NO_X	550.00	1567.61
		SO_2	20.00	84.00
		VOC	15.00	63.00
		CO	460.00	1932.00
		HCl	2.00	8.76
		H_2SO_4	2.00	8.40
F-11	Blending Silo Baghouse	PM	0.82	3.46
		PM_{10}	0.69	2.90
		$PM_{2.5}$	0.21	0.87
F-12	Return Elevator Baghouse	PM	0.21	0.86
		PM_{10}	0.17	0.73
		$PM_{2.5}$	0.05	0.22
H-06	Aeropol Feed Baghouse	PM	0.14	0.58
		PM_{10}	0.12	0.48
		$PM_{2.5}$	0.03	0.14
H-07	Elevator Baghouse	PM	0.16	0.69
		PM_{10}	0.14	0.58
		$PM_{2.5}$	0.04	0.17
L-12	Clinker Elevator Baghouse	PM	0.36	1.53
		PM_{10}	0.31	1.28
		$PM_{2.5}$	0.09	0.38
M-28	Clinker Feeder Belt Baghouse Stack	PM	0.33	1.40
		PM_{10}	0.33	1.40
		$PM_{2.5}$	0.08	0.35
M-29	Clinker Feeder Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04

Emission Sources - Maximum Allowable Emission Rates

M-32	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM_{10}	0.25	1.04
		$PM_{2.5}$	0.06	0.26
M-33	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM_{10}	0.25	1.04
		$PM_{2.5}$	0.06	0.26
N-09	FM No. 1 Elevator Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-13	FM No. 1 Separator Baghouse Stack	PM	2.02	8.46
		PM_{10}	1.01	4.23
		$PM_{2.5}$	0.50	2.12
N-20	Fly Ash Bins Baghouse Stack	PM	0.14	0.58
		PM_{10}	0.12	0.48
		$PM_{2.5}$	0.03	0.14
N-22	FM No. 1 Airslides Baghouse Stack	PM	0.58	2.42
		PM_{10}	0.29	1.21
		$PM_{2.5}$	0.14	0.60
N-59	FM No. 2 Elevator Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-63	FM No. 2 Separator Baghouse Stack	PM	2.02	8.46
		PM_{10}	1.01	4.23
		$PM_{2.5}$	0.50	2.12
N-69	FM No. 2 Airslides Baghouse Stack	PM	0.58	2.42
		PM_{10}	0.29	1.21
		$PM_{2.5}$	0.14	0.60
N-94a	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-94b	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63

Emission Sources - Maximum Allowable Emission Rates

N-95	FM No. 2 Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
		$PM_{2.5}$	0.06	0.26
N-96	Silo #12 through #15 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-97	Silo #4 through #7 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-98	Silo #2 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-99	Silo #1 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-100	Silo #3 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-101	Silo #8 through #11 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
R-70	Rotary Bagging Elevator Baghouse Stack	PM	1.01	4.23
		PM_{10}	0.85	3.56
		$PM_{2.5}$	0.25	1.06
R-90	Manned Bagger Elevator Baghouse Stack	PM	1.01	4.23
		PM_{10}	0.85	3.56
		$PM_{2.5}$	0.25	1.06
MSSFUG1 Project Number: 353999	Inherently Low Emitting (ILE) Planned Maintenance Activities (6)	NO_X	<0.01	<0.01
		PM	0.77	0.64
		PM_{10}	0.55	0.63
		$PM_{2.5}$	0.24	0.31
		VOC	2.35	<0.01

Emission Sources - Maximum Allowable Emission Rates

MSSFUG2	Non-ILE Planned Maintenance Activities (6)	NO_X	1.27	0.18
		CO	2.69	0.21
		PM	10.60	0.73
		PM_{10}	8.30	0.55
		$PM_{2.5}$	4.40	0.23

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_X - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
Pb - lead
HCl - hydrogen chloride
HF - hydrogen fluoride
Hg - mercury
(4) Planned maintenance, startup, and shutdown (MSS) emissions are included.
(5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(6) Emission rate is an estimate and an enforceable limit. Fugitive emission compliance will be demonstrated through compliance with the applicable special condition(s) and permit application representations.
(7) Compliance is based on a 30 operating day rolling average excluding periods of startup / shutdown (SU/SD) as defined in 40 CFR §63.1341.

Date: March 29, 2023

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX143

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)
AL-233-BH15	Kiln No. 2 Baghouse 15	CH_4 (5)	64
		N_2O (5)	9
		CO_2 (5)	1,213,625
		CO_2e	1,218,008
AL-503-BH62	FM3 Heater / Grinding BH 62	CH_4 (5)	<1
		N_2O (5)	<1
		CO_2 (5)	5,294
		CO_2e	5,305
K-2/K-19	Kiln No. 1	CH_4 (5)	50
		N_2O (5)	7
		CO_2 (5)	937,470
		CO_2e	940,856
MSS-KL2	Kiln Line No. 2 MSS Emissions	CO_2 (5)	14
		CO_2e	14

(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: June 13, 2017

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 6758 and PSDTX145M1

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.

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)	
			lb/hour	TPY (4)
Clinker Production				
Q-1 Group (5)	Quarrying (6)	PM	14.61	13.49
		PM_{10}	8.64	9.59
B-06	Crushing Operation Baghouse Stack	PM	0.60	2.52
		PM_{10}	0.60	2.52
RMS Group (7)	Transport to Raw Material Storage Bins/RMS (6)	PM	5.58	4.62
		PM_{10}	1.33	1.21
D-28	Additives Elevator Baghouse	PM	0.94	3.96
		PM_{10}	0.94	3.96
K-19	Grinding/Preheating/Kiln ESP Stack (8)	PM (filterable)	32.24	135.41
		PM_{10} (filterable)	32.24	135.41
		PM (condensable)	4.09	17.19
		PM_{10} (condensable)	4.09	17.19
		PM (total)	36.33	152.59
		PM_{10} (total)	36.33	152.59
		NO_x	660.0	2772.0
		SO_2	20.00	84.0
		VOC	15.00	63.00
		CO	460.00	1932.0
		HCl	2.00	8.76
		H_2SO_4	2.00	8.40
F-11	Blending Silo Baghouse	PM	1.03	4.32
		PM_{10}	1.03	4.32

Emission Sources - Maximum Allowable Emission Rates

F-12	Return Elevator Baghouse	PM	0.26	1.08
		PM_{10}	0.26	1.08
H-06	Aeropol Feed Baghouse	PM	0.17	0.72
		PM_{10}	0.17	0.72
H-07	Elevator Baghouse	PM	0.21	0.86
		PM_{10}	0.21	0.86
L-12	Clinker Elevator Baghouse Stack	PM	0.45	1.91
		PM_{10}	0.45	1.91
L-13	Hot Clinker Baghouse Stack	PM	0.43	1.80
		PM_{10}	0.43	1.80
L-14	Dome I Baghouse Stack	PM	0.45	1.89
		PM_{10}	0.45	1.89
L-15	Dome I Bottom Baghouse Stack	PM	0.32	1.44
		PM_{10}	0.32	1.44
L-16	Truck Loadout Silo Baghouse Stack	PM	1.03	4.32
		PM_{10}	1.03	4.32
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM	0.21	0.86
		PM_{10}	0.21	0.86
L-19	Dome 2 Baghouse Stack	PM	0.12	0.50
		PM_{10}	0.12	0.50
Finish Milling				
M-02	Additive Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
M-04	Additive Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
M-06	Reversible Belt/Gyp Bin Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
M-09	Clinker/Limestone Bins Baghouse Stack	PM	0.30	1.26
		PM_{10}	0.30	1.26
M-10	Special Clinker Bin Baghouse Stack	PM	0.21	0.86
		PM_{10}	0.21	0.86

Emission Sources - Maximum Allowable Emission Rates

M-28	Clinker Feeder Belt Baghouse Stack	PM	0.33	1.40
		PM_{10}	0.33	1.40
M-29	Clinker Feeder Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
M-32	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM_{10}	0.25	1.04
M-33	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM_{10}	0.25	1.04
N-09	FM No. 1 Elevator Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-13	FM No. 1 Separator Baghouse Stack	PM	2.52	10.58
		PM_{10}	1.26	5.29
N-20	Fly Ash Bins Baghouse Stack	PM	0.17	0.72
		PM_{10}	0.17	0.72
N-22	FM No. 1 Airslides Baghouse Stack	PM	0.72	3.02
		PM_{10}	0.36	1.51
N-59	FM No. 2 Elevator Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-63	FM No. 2 Separator Baghouse Stack	PM	2.52	10.58
		PM_{10}	1.26	5.29
N-69	FM No. 2 Airslides Baghouse Stack	PM	0.72	3.02
		PM_{10}	0.36	1.51
N-94a	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-94b	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-95	FM No. 2 Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
N-96	Silos 12-15 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-97	Silos 4-7 Baghouse Stack	PM	0.15	0.63

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.15	0.63
N-98	Silo 2 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-99	Silo 1 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-100	Silo 3 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-101	Silos 8-11 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
Loadout and Bagging Operation				
R-08	Silo 1 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-18	Silo 2 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-28	Silo 3 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-38	Silos 8-11 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-48	Silos 4-7 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-58	Silos 12-15 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-70	Rotary Bagging Elevator Baghouse Stack	PM	1.26	5.29
		PM_{10}	1.26	5.29
R-90	Manned Bagger Elevator Baghouse Stack	PM	1.26	5.29
		PM_{10}	1.26	5.29
F-1 Group (9)	Material Handling (6)	PM	5.78	5.71
		PM_{10}	2.76	2.71
Coal and Coke Operation				
S-01 Group (10)	Coal/Coke Stockpiles (6)	PM	0.60	1.71
		PM_{10}	0.28	0.81

Emission Sources - Maximum Allowable Emission Rates

S-98	Coal and Coke Road Hopper (6)	PM	1.80	7.90
		PM_{10}	0.90	4.00
S-44	Coal and Coke Unloading Baghouse Stack	PM	0.64	2.70
		PM_{10}	0.64	2.70
S-30	Coal Mill Baghouse	PM	2.14	9.00
		PM_{10}	2.14	9.00
S-56	Coal Bin Baghouse	PM	0.60	2.52
		PM_{10}	0.60	2.52
Planned Maintenance Activities				
MSSFUG1	Inherently Low Emitting (ILE) Planned Maintenance Activities (6)	NO_x	<0.01	<0.01
		PM	0.77	0.64
		PM_{10}	0.55	0.63
		$PM_{2.5}$	0.24	0.31
		VOC	2.35	<0.01
MSSFUG2	Non-ILE Planned Maintenance Activities (6)	NO_x	1.27	0.18
		CO	2.69	0.21
		PM	10.60	0.73
		PM_{10}	8.30	0.55
		$PM_{2.5}$	4.40	0.23

(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) The emission limitations for EPN Q-1 GROUP authorize emissions from EPNs Q-01, Q-02, Q-04, Q-05, Q-06, Q-07, Q-09, Q-10, and C-05.

(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(7) The emission limitations for EPN RMS GROUP authorize emissions from EPNs M-99, D-99, and M-98.

(8) Emissions from K-19 must comply with New Source Performance Standard, Subpart F.

(9) The emission limitations for EPN F-1 GROUP authorize emissions from EPNs C-07, C-08, D-01, D-04, D-05, D-11, D-14, D-15, D-16, E-01, E-03, M-01, M-21, M-23, M-24, M-25, D-20, S-07, S-08, S-11, S-13, S-18, and S-20.

Emission Sources - Maximum Allowable Emission Rates

(10) The emission limitations for EPN S-01 GROUP authorize emissions from EPNs S-99, CCS, and CLS.
(11) Planned maintenance, startup, and shutdown (MSS) emissions are included.

Date: March 29, 2023