

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
Texas Lime Company

AUTHORIZING THE OPERATION OF  
Texas Lime Company  
Lime Plant  
Lime

LOCATED AT  
Johnson County, Texas  
Latitude 32° 14' 45" Longitude 97° 33' 0"  
Regulated Entity Number: RN100210889

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: 0999 Issuance Date: \_\_\_\_\_

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For the Commission

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## **General Terms and Conditions**

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

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

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

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

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

## **Special Terms and Conditions: Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.

- C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
- D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
- E. Emission units subject to 40 CFR Part 63, Subpart ZZZZ as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, §113.1090 which incorporates the 40 CFR Part 63 Subpart by reference.
- F. For the purpose of generating emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 1 (Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.302 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.303 (relating to Emission Reduction Credit Generation Certification)
  - (iii) Title 30 TAC § 101.304 (relating to Mobile Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.309 (relating to Emission Credit Banking and Trading)
  - (v) The terms and conditions by which the emission limits are established to generate the reduction credit are applicable requirements of this permit
- G. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
  - (i) Title 30 TAC § 101.372 (relating to General Provisions)
  - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)

- (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
  - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
  - (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
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<sub>x</sub>, 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. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
  - C. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- 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(e)(1).
- 5. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
  - A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities specified in 30 TAC Chapter 115, Subchapter C, the permit holder shall comply with the following requirements:
    - (i) Title 30 TAC § 115.221 (relating to Emission Specifications)
    - (ii) Title 30 TAC § 115.222 (relating to Control Requirements)
    - (iii) Title 30 TAC § 115.223 (relating to Alternate Control Requirements)
    - (iv) Title 30 TAC § 115.224 (relating to Inspection Requirements)
    - (v) Title 30 TAC § 115.225 (relating to Testing Requirements)
    - (vi) Title 30 TAC § 115.226 (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.

### **Additional Monitoring Requirements**

9. 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 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.
10. 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 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**

- 11. 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, 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
12. 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.
13. 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).
14. 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. Applicable requirements of 30 TAC § 116.617 for Pollution Control Projects based on the information contained in the registration application.

### **Compliance Requirements**

15. 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.

16. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For sources in the Dallas-Fort Worth Eight-Hour Nonattainment area, 30 TAC § 117.9030
  - B. The permit holder shall comply with the Initial Control Plan unit identification requirements in 30 TAC § 117.450(a) and (a)(1).
  - C. The permit holder shall comply with the requirements of 30 TAC § 117.454 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.456 for Revision of Final Control Plan.
17. 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)(2)
    - (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)(2)

- (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)

18. 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**

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

### **Permit Shield (30 TAC § 122.148)**

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

## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

## **Applicable Requirements Summary**

**Unit Summary .....15**

**Applicable Requirements Summary ..... 19**

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
3-CAT-4	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	60000-4	40 CFR Part 60, Subpart 000	No changing attributes.
3LS3	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	60000-3	40 CFR Part 60, Subpart 000	No changing attributes.
5-EP-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R111-1	30 TAC Chapter 111, Visible Emissions	No changing attributes.
6-AS-1	EMISSION POINTS/STATIONARY VENTS/PROCESS VENTS	N/A	R1111	30 TAC Chapter 111, Visible Emissions	No changing attributes.
GEN-EMERG	SRIC ENGINES	N/A	R7401	30 TAC Chapter 117, Subchapter B	No changing attributes.
GEN-EMERG	SRIC ENGINES	N/A	63ZZZZ	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
GRP-CAT-A	NON-METALLIC MINERAL PROCESSING PLANTS	3BEL7, 3-CAT-3	60000-1	40 CFR Part 60, Subpart 000	Storage bin.
GRP-CAT-A	NON-METALLIC MINERAL PROCESSING PLANTS	3BEL7, 3-CAT-3	60000-2	40 CFR Part 60, Subpart 000	Bucket elevator.
GRP-COAL	COAL PREPARATION PLANTS	10-BC-1, 10-BC-2, 10-BC-3, 10-CR-1, 10-CSI-1, 10-CSI-	60Y-1	40 CFR Part 60, Subpart Y	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		2, C-HOPPER-1, C-HOPPER-2, SCBLT-1, SCBLT-2			
GRP-DSLTKN	LOADING/UNLOADING OPERATIONS	1-DT-1, 1-DT-2	R115-2	30 TAC Chapter 115, Loading and Unloading of VOC	No changing attributes.
GRP-DSLTKN	STORAGE TANKS/VESSELS	1-DT-1, 1-DT-2	R115-1	30 TAC Chapter 115, Storage of VOCs	No changing attributes.
GRP-GCC-TP	NON-METALLIC MINERAL PROCESSING PLANTS	3BC5/3BC6, 3BC5/3BC7, 3BC6/D2, 3BC7/D1	60000-1	40 CFR Part 60, Subpart 000	No changing attributes.
GRP-QRY-CR	NON-METALLIC MINERAL PROCESSING PLANTS	1CR1, 1CR2	60000-2	40 CFR Part 60, Subpart 000	No changing attributes.
GRP-QRY-SN	NON-METALLIC MINERAL PROCESSING PLANTS	1SN1, 1SN2, 2SN1	60000-1	40 CFR Part 60, Subpart 000	No changing attributes.
GRP-QRY-TP	NON-METALLIC MINERAL PROCESSING PLANTS	1BC1/1SN1, 1BC3/1SN2, 1BC4/1CR2, 1BC5/1BC3, 1CR1/1BC1, 1CR2/1BC5, 1SN1/1BC2, 1SN1/3BC1, 1SN2/1BC4, 1SN2/2BC1,	60000	40 CFR Part 60, Subpart 000	No changing attributes.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
		1VB1/1BC1, 2BC1/2SN1, 2BC10/2BC11, 2BC10/K6, 2BC11/K5, 2BC2/2BOX1, 2BC3/2BC4, 2BC9/2BC1, 2BOX1/2BC10, 2BOX1/2BC3, 2BOX2/2BC10, 2BOX2/2BC5, 2SN1/2BC2, 2SN1/2BOX2, 2SN1/3BC2, 3BC2/3BC1			
GRP-SYS1-A	NON-METALLIC MINERAL PROCESSING PLANTS	3SN1, 3SN3	60000-3	40 CFR Part 60, Subpart 000	No changing attributes.
GRP-SYS2-A	NON-METALLIC MINERAL PROCESSING PLANTS	3-BEL-11, 3-CR-2, 3SN4, 3SN5	60000-1	40 CFR Part 60, Subpart 000	Screening operations.
GRP-SYS2-A	NON-METALLIC MINERAL PROCESSING PLANTS	3-BEL-11, 3-CR-2, 3SN4, 3SN5	60000-2	40 CFR Part 60, Subpart 000	Crusher.
GRP-SYS2-A	NON-METALLIC MINERAL PROCESSING PLANTS	3-BEL-11, 3-CR-2, 3SN4, 3SN5	60000-3	40 CFR Part 60, Subpart 000	Bucket elevator.

### Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
K-5	DRYER/KILN/OVEN	N/A	R7401-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
K-6	DRYER/KILN/OVEN	N/A	R7401-1	30 TAC Chapter 117, Subchapter B	No changing attributes.
K-6	NON-METALLIC MINERAL PROCESSING PLANTS	N/A	60HH	40 CFR Part 60, Subpart HH	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)
3-CAT-4	EU	60000-4	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
3LS3	EU	60000-3	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
5-EP-1	EP	R111-1	PM (OPACITY)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.	[G]§ 111.111(a)(1)(F) ** See CAM Summary	None	None
6-AS-1	EP	R1111	PM (OPACITY)	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(C) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	§ 111.111(a)(1)(D) [G]§ 111.111(a)(1)(F)	§ 111.111(a)(1)(C) § 111.111(a)(1)(D)	None

## 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)
GEN-EMERG	EU	R7401	NO <sub>x</sub>	30 TAC Chapter 117, Subchapter B	§ 117.400 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Subchapter B
GEN-EMERG	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(h) § 63.6625(i) § 63.6640(b) § 63.6640(f)(1) [G]§ 63.6640(f)(2) [G]§ 63.6640(f)(4)	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(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table 6.9.a.i § 63.6640(a)-Table 6.9.a.ii § 63.6640(b)	§ 63.6625(i) § 63.6655(a) § 63.6655(a)(1) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(b) § 63.6640(e) § 63.6650(f)
GRP-CAT-A	EU	60000-1	PM	40 CFR Part 60, Subpart OOO	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart OOO	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart OOO	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart OOO	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart OOO
GRP-CAT-A	EU	60000-2	PM	40 CFR Part 60, Subpart OOO	§ 60.672 The permit holder shall comply with the applicable limitation, standard	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart OOO	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart OOO

## 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)
					and/or equipment specification requirements of 40 CFR Part 60, Subpart 000			Part 60, Subpart 000	
GRP-COAL	EU	60Y-1	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)(3) ** See Periodic Monitoring Summary	None	None
GRP-DSLTK	EU	R115-2	VOC	30 TAC Chapter 115, Loading and Unloading of VOC	§ 115.217(a)(1) § 115.214(a)(1)(B) § 115.214(a)(1)(D) § 115.214(a)(1)(D)(i)	Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.	§ 115.214(a)(1)(A) § 115.214(a)(1)(A)(i) § 115.215 § 115.215(4)	§ 115.216 § 115.216(2) § 115.216(3)(B)	None
GRP-DSLTK	EU	R115-1	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

## Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
						division.			
GRP-GCC-TP	EU	60000-1	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
GRP-QRY-CR	EU	60000-2	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
GRP-QRY-SN	EU	60000-1	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
GRP-QRY-TP	EU	60000	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000

## 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)
					and/or equipment specification requirements of 40 CFR Part 60, Subpart 000			Part 60, Subpart 000	
GRP-SYS1-A	EU	60000-3	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
GRP-SYS2-A	EU	60000-1	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
GRP-SYS2-A	EU	60000-2	PM	40 CFR Part 60, Subpart 000	§ 60.672 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable requirements of 40 CFR Part 60, Subpart 000	** See Periodic Monitoring Summary	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
GRP-SYS2-A	EU	60000-3	PM	40 CFR Part 60,	§ 60.672	The permit holder shall	** See Periodic	The permit holder shall	The permit holder shall

## 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)
				Subpart 000	The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 60, Subpart 000	comply with the applicable requirements of 40 CFR Part 60, Subpart 000	Monitoring Summary	comply with the applicable recordkeeping requirements of 40 CFR Part 60, Subpart 000	comply with the applicable reporting requirements of 40 CFR Part 60, Subpart 000
K-5	EU	R7401-1	NOx	30 TAC Chapter 117, Subchapter B	§ 117.400 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Subchapter B
K-5	EU	R7401-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.400 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Subchapter B
K-6	EU	R7401-1	NOx	30 TAC Chapter 117, Subchapter B	§ 117.400 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Subchapter B

## 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)
					TAC Chapter 117, Subchapter B				
K-6	EU	R7401-1	CO	30 TAC Chapter 117, Subchapter B	§ 117.400 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable monitoring and testing requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable recordkeeping requirements of 30 TAC Chapter 117, Subchapter B	The permit holder shall comply with the applicable reporting requirements of 30 TAC Chapter 117, Subchapter B
K-6	EU	6oHH	PM	40 CFR Part 60, Subpart HH	§ 60.342(a)(1)	The owner or operator shall not allow the discharge of any gases which contain particulate matter in excess of 0.30 kilogram per megagram (0.60 lb/ton) of stone feed.	§ 60.343(d) § 60.344(a) § 60.344(b) § 60.344(b)(1) § 60.344(b)(2) § 60.344(b)(3) ** See CAM Summary	None	None
K-6	EU	6oHH	PM (OPACITY)	40 CFR Part 60, Subpart HH	§ 60.342(a)(2)	The owner or operator shall not allow the discharge of any gases which exhibit greater than 15 percent opacity when exiting from a dry emission control device.	§ 60.343(a) § 60.343(e) § 60.344(a) § 60.344(b)(4)	§ 60.343(a)	§ 60.343(e)

**Additional Monitoring Requirements**

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## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: 5-EP-1	
Control Device ID No.: 5-VA-1	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R111-1
Pollutant: PM (OPACITY)	Main Standard: § 111.111(a)(1)(C)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: once per day	
Averaging Period: n/a	
Deviation Limit: 15% Opacity Limit	
<p>CAM Text: Visible emissions observations shall be made and recorded in accordance with the requirements specified in 40 CFR § 64.7(c). Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p>	

## CAM Summary

<b>Unit/Group/Process Information</b>	
ID No.: K-6	
Control Device ID No.: 6-VA-1	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart HH	SOP Index No.: 60HH
Pollutant: PM	Main Standard: § 60.342(a)(1)
<b>Monitoring Information</b>	
Indicator: Opacity	
Minimum Frequency: six times per minute	
Averaging Period: six-minute	
Deviation Limit: 15% Opacity	
CAM Text: The COMS shall be operated in accordance with 40 CFR § 60.13.	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: 3-CAT-4	
Control Device ID No.: 3-AS-8	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart 000	SOP Index No.: 60000-4
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 7% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: 3LS3	
Control Device ID No.: 3-AS-6	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-3
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 7% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-CAT-A	
Control Device ID No.: 3-AS-5	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 7% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-CAT-A	
Control Device ID No.: 3-AS-5	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart 000	SOP Index No.: 60000-2
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 7% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-COAL	
Control Device ID No.: COVER	Control Device Type: Other Control Device Type
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart Y	SOP Index No.: 60Y-1
Pollutant: PM (OPACITY)	Main Standard: § 60.254(a)
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 20% Opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions.</p> <p>If the result of the Test Method 9 is an opacity above the corresponding opacity limit, the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-GCC-TP	
Control Device ID No.: WATERSPRAY	Control Device Type: Other Control Device Type
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 10% Opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-QRY-CR	
Control Device ID No.: WATERSPRAY	Control Device Type: Other Control Device Type
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-2
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 15% Opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-QRY-SN	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart OOO	SOP Index No.: 60000-1
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 10% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-QRY-TP	
Control Device ID No.: N/A	Control Device Type: N/A
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart 000	SOP Index No.: 60000
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 10% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-SYS1-A	
Control Device ID No.: 3-AS-3	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart 000	SOP Index No.: 60000-3
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 7% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-SYS2-A	
Control Device ID No.: 3-AS-4	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart 000	SOP Index No.: 60000-1
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 7% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-SYS2-A	
Control Device ID No.: 3-AS-4	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart 000	SOP Index No.: 60000-2
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 7% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

## Periodic Monitoring Summary

<b>Unit/Group/Process Information</b>	
ID No.: GRP-SYS2-A	
Control Device ID No.: 3-AS-4	Control Device Type: Fabric Filter
<b>Applicable Regulatory Requirement</b>	
Name: 40 CFR Part 60, Subpart 000	SOP Index No.: 60000-3
Pollutant: PM	Main Standard: 60.672
<b>Monitoring Information</b>	
Indicator: Visible Emissions	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: 7% opacity	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If a Test Method 9 is performed, the opacity limit is the corresponding opacity limit associated with the particulate matter standard in the underlying applicable requirement. If there is no corresponding opacity limit in the underlying applicable requirement, the maximum opacity will be established using the most recent performance test. If the result of the Test Method 9 is opacity above the corresponding opacity limit (associated with the particulate matter standard in the underlying applicable requirement or as identified as a result of a previous performance test to establish the maximum opacity limit), the permit holder shall report a deviation.</p>	

**Permit Shield**

**Permit Shield ..... 43**

## Permit Shield

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

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
1-GT-1	N/A	30 TAC Chapter 115, Storage of VOCs	Storage of VOC does not apply to tanks less than or 1000 gallons.
3-CR-1	N/A	40 CFR Part 60, Subpart OOO	Not an affected facility since it was constructed before 8/31/1983.
GRP-CAT-B	3BEL6, 3CAT1, 3CAT2, 3SI1, 3SI2	40 CFR Part 60, Subpart OOO	Constructed before 8/31/1983.
GRP-CH-PL	C-PILE	40 CFR Part 60, Subpart Y	Group is not an affected facility under Subpart Y since the definition of “coal storage system” excludes open storage piles.
GRP-GCC-BE	3-BEL-1, 3-BEL-10, 3-BEL-2, 3-BEL-3, 3-BEL-4, 3-BEL-5, 3-BEL-8, 3-BEL-9	40 CFR Part 60, Subpart OOO	Group is not an affected facility since it was constructed before the August 31, 1983, Subpart OOO applicability date.
GRP-GCC-DRY	3-D-1, 3-D-2	40 CFR Part 60, Subpart UUU	GCC facility does not meet the definition of ‘mineral processing plant’.
GRP-GCC-LS	3-LS-1, 3-LS-2	40 CFR Part 60, Subpart OOO	Group is not an affected facility since it was constructed before the August 31, 1983, Subpart OOO applicability date.
K-5	N/A	40 CFR Part 60, Subpart HH	Construction/modification before 5/3/1977.

**New Source Review Authorization References**

**New Source Review Authorization References ..... 45**

**New Source Review Authorization References by Emission Unit..... 47**

## 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.

<b>Prevention of Significant Deterioration (PSD) Permits</b>	
PSD Permit No.: PSDTX54	Issuance Date: 09/26/2014
<b>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.</b>	
Authorization No.: 20519	Issuance Date: 02/13/2007
Authorization No.: 24213	Issuance Date: 09/26/2014
Authorization No.: 5602A	Issuance Date: 03/23/2009
Authorization No.: 73033	Issuance Date: 09/22/2014
Authorization No.: 7501	Issuance Date: 05/11/2009
<b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>	
Number: 106.102	Version No./Date: 09/04/2000
Number: 106.122	Version No./Date: 09/04/2000
Number: 106.144	Version No./Date: 09/04/2000
Number: 106.183	Version No./Date: 09/04/2000
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.264	Version No./Date: 09/04/2000
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.266	Version No./Date: 09/04/2000
Number: 106.372	Version No./Date: 09/04/2000
Number: 106.374	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 09/04/2000
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 5	Version No./Date: 06/07/1996
Number: 53	Version No./Date: 08/11/1989
Number: 53	Version No./Date: 09/12/1989

## **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.

Number: 63	Version No./Date: 05/12/1981
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### 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
10-BC-1	COAL TRANSFER AND STORAGE	5602A
10-BC-2	COAL TRANSFER AND STORAGE	5602A
10-BC-3	COAL TRANSFER AND STORAGE	5602A
10-CR-1	COAL CRUSHER	5602A
10-CSI-1	COAL STORAGE	5602A
10-CSI-2	COAL/COKE HANDLING OPERATIONS: STORAGE BIN	5602A
1BC1/1SN1	QUARRY: TRANSFER POINTS	20519
1BC3/1SN2	QUARRY: TRANSFER POINTS	20519
1BC4/1CR2	QUARRY: TRANSFER POINTS	20519
1BC5/1BC3	QUARRY: TRANSFER POINTS	20519
1CR1/1BC1	QUARRY: TRANSFER POINTS	20519
1CR1	QUARRY OPS: PRIMARY JAW CRUSHER	20519
1CR2/1BC5	QUARRY: TRANSFER POINTS	20519
1CR2	QUARRY OPS: SECONDARY CRUSHER	20519
1-DT-1	TANK	63/05/12/1981
1-DT-1	TANK LOADING	63/05/12/1981
1-DT-2	TANK	63/05/12/1981
1-DT-2	TANK LOADING	63/05/12/1981

### New Source Review Authorization References by Emissions Unit

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

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
1-GT-1	TANK	53/08/11/1989
1SN1/1BC2	QUARRY: TRANSFER POINTS	20519
1SN1/3BC1	QUARRY: TRANSFER POINTS	20519
1SN1	QUARRY OPS: PRIMARY SCREEN PS-1	20519
1SN2/1BC4	QUARRY: TRANSFER POINTS	20519
1SN2/2BC1	QUARRY: TRANSFER POINTS	20519
1SN2	QUARRY OPS: SECONDARY SCREEN	20519
1VB1/1BC1	QUARRY: TRANSFER POINTS	20519
2BC1/2SN1	QUARRY: TRANSFER POINT	20519
2BC10/2BC11	QUARRY: TRANSFER POINTS	20519
2BC10/K6	QUARRY: TRANSFER POINTS	20519
2BC11/K5	QUARRY: TRANSFER POINTS	20519
2BC2/2BOX1	QUARRY: TRANSFER POINTS	20519
2BC3/2BC4	QUARRY: TRANSFER POINTS	20519
2BC9/2BC1	QUARRY: TRANSFER POINTS	20519
2BOX1/2BC10	QUARRY: TRANSFER POINTS	20519
2BOX1/2BC3	QUARRY: TRANSFER POINTS	20519
2BOX2/2BC10	QUARRY: TRANSFER POINTS	20519

### 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
2BOX2/2BC5	QUARRY: TRANSFER POINTS	20519
2SN1/2BC2	QUARRY: TRANSFER POINTS	20519
2SN1/2BOX2	QUARRY: TRANSFER POINTS	20519
2SN1/3BC2	QUARRY: TRANSFER POINTS	20519
2SN1	QUARRY OPS: TERTIARY SCREEN; KILN CHARGING	20519
3BC2/3BC1	QUARRY: TRANSFER POINTS	20519
3BC5/3BC6	GCC PLANT: TRANSFER POINTS	20519
3BC5/3BC7	GCC PLANT: TRANSFER POINTS	20519
3BC6/D2	GCC PLANT: TRANSFER POINTS	20519
3BC7/D1	GCC PLANT: TRANSFER POINTS	20519
3-BEL-10	GCC PLANT BUCKET ELEVATOR OPERATIONS	20519
3-BEL-11	GCC PLANT: BUCKET ELEVATOR	20519
3-BEL-1	GCC PLANT: BUCKET ELEVATOR	20519
3-BEL-2	GCC PLANT: BUCKET ELEVATOR	20519
3-BEL-3	GCC PLANT: BUCKET ELEVATOR	20519
3-BEL-4	GCC PLANT: BUCKET ELEVATOR	20519
3-BEL-5	GCC PLANT: BUCKET ELEVATOR	20519
3BEL6	GCC PLANT: STORAGE AND TRANSFER SYSTEM	20519

### 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
3BEL7	GCC PLANT: BUCKET ELEVATOR	20519
3-BEL-8	GCC PLANT: BUCKET ELEVATOR	20519
3-BEL-9	GCC PLANT: BUCKET ELEVATOR	20519
3CAT1	GCC PLANT: STORAGE AND TRANSFER SYSTEM	20519
3CAT2	GCC PLANT: STORAGE AND TRANSFER SYSTEM	20519
3-CAT-3	GCC PLANT: STORAGE TANK	20519
3-CAT-4	GCC PLANT: STORAGE TANK	20519
3-CR-1	GCC PLANT: HAMMERMILL CRUSHER	20519
3-CR-2	GCC PLANT: CRUSHER	20519
3-D-1	GCC PLANT: ROTARY DRYER NO.1	20519
3-D-2	GCC PLANT: ROTARY DRYER NO.2	20519
3-LS-1	GCC PLANT: TRUCK LOADING STATION	20519
3-LS-2	GCC PLANT: TRUCK LOADING STATION	20519
3LS3	GCC PLANT: LOAD OUT	20519
3SI1	GCC PLANT: STORAGE AND TRANSFER SYSTEM	20519
3SI2	GCC PLANT: STORAGE AND TRANSFER SYSTEM	20519
3SN1	GCC PLANT: SCREENS	20519
3SN3	GCC PLANT: SCREENS	20519

### 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
3SN4	GCC PLANT: SCREENS	20519
3SN5	GCC PLANT: SCREENS	20519
5-EP-1	KILN 5: EMISSION POINT	24213
6-AS-1	KILN 6 OPERATIONS- BAGHOUSE EMISSION POINT	24213, PSDTX54
C-HOPPER-1	COAL TRNSFER AND STORAGE	5602A
C-HOPPER-2	COAL TRNSFER AND STORAGE	5602A
C-PILE	COAL/COKE HANDLING OPERATIONS: OPEN STORAGE PILE 1	5602A
GEN-EMERG	GEN-EMERG	5/06/07/1996
K-5	KILN 5 OPERATIONS	24213
K-6	KILN 6 OPERATIONS-NEW PREHEATER	24213, PSDTX54
SCBLT-1	COAL TRANSFER AND STORAGE	5602A
SCBLT-2	COAL TRANSFER AND STORAGE	5602A

**Appendix A**

**Acronym List ..... 53**

## 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
COMS	.....	continuous opacity monitoring system
CVS	.....	closed-vent system
D/FW	.....	Dallas/Fort Worth (nonattainment area)
DR	.....	Designated Representative
ELP	.....	El Paso (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
GF	.....	grandfathered
gr/100 scf	.....	grains per 100 standard cubic feet
HAP	.....	hazardous air pollutant
H/G/B	.....	Houston/Galveston/Brazoria (nonattainment area)
H <sub>2</sub> S	.....	hydrogen sulfide
ID No.	.....	identification number
lb/hr	.....	pound(s) per hour
MMBtu/hr	.....	Million British thermal units per hour
MRRT	.....	monitoring, recordkeeping, reporting, and testing
NA	.....	nonattainment
N/A	.....	not applicable
NADB	.....	National Allowance Data Base
NO <sub>x</sub>	.....	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
PM	.....	particulate matter
ppmv	.....	parts per million by volume
PSD	.....	prevention of significant deterioration
RO	.....	Responsible Official
SO <sub>2</sub>	.....	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..... 55**

## Major NSR Summary Table

<b>Permit Number: 24213 / PSDTX54</b>			<b>Issuance Date: May 15, 2014</b>				
<b>Emission Point No. (1)</b>	<b>Source Name (2)</b>	<b>Air Contaminant Name (3)</b>	<b>Emission Rates *</b>		<b>Monitoring and Testing Requirements</b>	<b>Recordkeeping Requirements</b>	<b>Reporting Requirements</b>
			<b>lb/hr</b>	<b>TPY**</b>	<b>Spec. Cond.</b>	<b>Spec. Cond.</b>	<b>Spec. Cond.</b>
5-EP-1	Kiln 5	CO SO <sub>2</sub> PM/PM <sub>10</sub> VOC HCl	22.9 13.9 7.4 1.02 0.4	96.0 57.8 30.8 3.9 1.24	14, 15, 18, 19, 20, 22	5, 6, 14, 15, 20, 23	14, 23
6-AS-1	Kiln 6	CO SO <sub>2</sub> PM/PM <sub>10</sub> VOC HCl	38.6 58.2 9.0 1.0 0.5	158.3 237.1 36.8 3.8 1.7	4, 14, 16, 18, 19, 20, 21, 22	5, 6, 14, 16, 20, 21, 23	14, 21, 23
5-EP-1 & 6-AS-1	Kiln Nos. 5 and 6	NO <sub>x</sub> (6)	233.2	1027.4	14, 19, 20, 21, 22	23	23
6-AS-2	Dust Bin Dust Collector	PM/PM <sub>10</sub>	0.36	1.58	17	17, 23	23
6-AS-3	Dust Bin Loadout Dust Collector	PM/PM <sub>10</sub>	0.13	0.56	17	17, 23	23
6-AS-4	Nos. 5 and 6 Kiln Cooler Area	PM/PM <sub>10</sub>	0.51	2.25	17	17, 23	23
MSSFUG	Sitewide Inherently Low Emitting (ILE) Planned Maintenance Activities	NO <sub>x</sub> VOC PM PM <sub>10</sub> PM <sub>2.5</sub>	<0.01 1.14 1.08 0.52 0.10	<0.01 <0.01 1.93 0.92 0.13	13	23	23

**Footnotes:**

- (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<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented.  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter including PM<sub>2.5</sub>, as represented  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
CO - carbon monoxide  
HCl - hydrogen chloride

- (4) Compliance with annual emissions limits (tons per year) is based on 12 month rolling period
- (5) Planned maintenance, startup, and shutdown emissions are included.
- (6) Hourly NO<sub>x</sub> emission rates are based on a rolling 30-day average.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
AIR QUALITY PERMIT



A Permit Is Hereby Issued To  
**Texas Lime Company**  
Authorizing the Continued Operation of  
**Lime Plant**

Located at **Cleburne, Johnson County, Texas**  
Latitude 32° 14' 45" Longitude -97° 33' 5"

Permits: 24213 and PSDTX54

Issuance Date : September 26, 2014

Renewal Date: September 26, 2024

For the Commission

- 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 116.116 (30 TAC 116.116)]
- 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(a), (b) and (c)]
- 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)]
- 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)(iii)]
- 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; comply with any additional recordkeeping requirements specified in special conditions attached to the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC 116.115(b)(2)(E)]
8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources--Maximum Allowable Emission Rates." [30 TAC 116.115(b)(2)(F)]
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification for upsets and maintenance in accordance with 30 TAC 101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules, regulations, and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to a condition of "air pollution" as defined in Texas Health and Safety Code (THSC) 382.003(3) or violate THSC 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.

## Special Conditions

Permit Numbers 24213 and PSDTX54

### Emission Standards, Fuel Specifications, and Work Practices

1. This permit covers only those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates" (MAERT), and those sources are limited to the emission limits and other conditions specified in that attached table. 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 MAERT. Attachment A identifies the inherently low emitting (ILE) planned maintenance activities that are authorized by this permit. **(5/14)**
2. A copy of this permit shall be kept at the plant site and made available at the request of personnel from the Texas Commission on Environmental Quality (TCEQ) or any air pollution control agency with jurisdiction. In addition, the permit holder shall identify all equipment at the property that has the potential of emitting air contaminants. Permitted emission points shall be identified by the emission point numbering on the maximum allowable emission rates table. Grandfathered or exempt facilities shall be identified by the emission point numbering used in the most recent emissions inventory submitted to the TCEQ.
3. Kiln No. 6 and associated handling activities previously authorized under Permit Numbers 5999 and PSDTX54 (last revision dated April 10, 2009) are consolidated into Permit Number 24213 which authorizes activities associated with Kiln No. 5. **(5/14)**
4. Kiln No. 6 (Emission Point No. [EPN] 6-AS-1) shall comply with all applicable requirements of Environmental Protection Agency (EPA) regulations on Standards of Performance for New Stationary Sources (NSPS) promulgated for Lime Manufacturing Plants in Title 40 Code of Federal Regulations (40 CFR) Part 60, Subparts A and HH. **(5/14)**
5. Fuel fired in Kiln Nos. 5 and 6 shall be limited to pipeline quality natural gas, coal, and petroleum coke. **(5/14)**
  - A. The pipeline quality natural gas shall contain no more than 0.25 grain (gr) of hydrogen sulfide and 5 gr of total sulfur per 100 dry standard cubic feet.
  - B. The sulfur loading rate to Kiln No. 5, based on the sulfur content and the feed rates of limestone and fuels, shall not exceed 462.7 pounds per hour.
  - C. The sulfur loading rate to Kiln No. 6, based on the sulfur content and the feed rates of limestone and fuels, shall not exceed 581.6 pounds per hour.
  - D. Upon request by the Executive Director of the TCEQ or any local air pollution control program having jurisdiction, the permit holder 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.

6. The production capacities of the kilns shall not exceed the following: **(5/14)**
  - A. Kiln No. 5: 663 tons of quicklime (CaO) per day, based on a 30-day rolling average.
  - B. Kiln No. 6: 850 tons of CaO per day, based on a 30-day rolling average.
  - C. Additional stack testing may be required when higher production rates are achieved.
7. During split-firing of Kiln No. 5 with petroleum coke and natural gas, emission rates shall be based on factors determined through prior stack testing. Emission factors shall be expressed in pounds of pollutant per ton of CaO produced.
8. During split-firing with natural gas, petroleum coke fuel shall not contribute more than 90 percent of the total heat input to Kiln No. 5.

### **Opacity Limitations**

9. The following opacity limitations apply:
  - A. Opacity of emissions from Kiln No. 5 (EPN 5-EP-1) shall not exceed 15 percent, as measured by the U.S. Environmental Protection Agency (EPA) Method 9, averaged over a six-minute period, except those projects described in Title 30 Texas Administrative code §111.111(a)(E) (30 TAC §111.111). Continuous demonstration of compliance with this special condition is not required. **(4/09)**
  - B. Opacity of emissions from Kiln No. 6 (EPN 6-AS-1) shall not exceed 15 percent, in accordance with NSPS, Subpart HH. **(5/14)**
  - C. Opacity of emissions from the following Kiln No. 6 equipment stacks shall not exceed 5 percent averaged over a six minute period after adjustment for uncombined water vapor: dust bin (EPN 6-AS-2), dust bin load-out (EPN 6-AS-3), and the feeders serving the Nos. 5 and 6 kiln coolers (EPN 6-AS-4). These equipment shall have fabric filter baghouses properly installed and in good working order to control particulate matter (PM) emissions from these equipment. The baghouses shall maintain an outlet grain loading of 0.015 grain per standard cubic foot or less. **(5/14)**

### **Planned Maintenance, Startup, and Shutdown**

10. 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, safe operating practices, and protection of the facility. **(5/14)**
11. Planned startup and shutdown activities associated with the kilns shall comply with the following definitions and requirements to minimize emissions: **(5/14)**

- A. A planned startup of the kiln is defined as when kiln startup commences upon firing natural gas in the kiln burner and completed upon addition of solid fuel to the burner or making saleable product, whichever comes first. A planned startup of the kiln is limited to 48 hours.
  - B. A planned shutdown of the kiln is defined as the period when fuel ceases to be delivered to the kiln burner and ending when continuous kiln rotation ceases. A planned shutdown of the kiln is limited to 48 hours.
12. Compliance with the emissions limits for ILE planned maintenance activities (Attachment A) shall be demonstrated as follows. **(5/14)**
- A. 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.
  - B. The permit holder shall annually confirm the continued validity of the estimated potential to emit as represented in the MSS permit amendment application and subsequent associated submittals.
13. Emissions from planned MSS activities authorized by this permit shall be determined by the use of an appropriate method, including but not limited to any of following methods: **(5/14)**
- A. Use of a continuous emissions monitoring system (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, fuel sulfur content, feed rate, and production rate.
  - 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, fuel sulfur content, feed rate, and production rate.

### **Compliance Demonstration**

14. Upon request by the Executive Director of the TCEQ, the permit holder shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from the kilns. Sampling shall be

conducted in accordance with the appropriate procedures of the TCEQ Sampling Procedures Manual and in accordance with EPA Reference Method 201A and Reference Method 5, modified to include back-half condensables, for the concentration of PM less than 10 microns in diameter (PM<sub>10</sub>) and total PM, respectively; Reference Method 8 or Reference Methods 6 or 6c for SO<sub>2</sub>; Reference Method 10 for the concentration of carbon monoxide (CO); Reference Method 25A, modified to exclude methane and ethane, for the concentration of volatile organic compounds (VOC) (to measure total carbon as propane); and Reference Method 20 for the concentrations of nitrogen oxides (NO<sub>x</sub>) and oxygen or equivalent methods.

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

- A. The TCEQ Dallas/Fort Worth (DFW) Regional Office shall be contacted as soon as testing is scheduled but not less than 45 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) Methods or procedures to be used in sampling.

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

- B. Gaseous sampling port(s) and sampling platform(s) shall be incorporated into the kiln stack per specifications in the attachment entitled "Chapter 2, Stack Sampling Facilities" of the TCEQ Sampling Procedures Manual. Alternate sampling facility designs may be submitted for approval by the TCEQ DFW Regional Manager.

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 DFW Regional Manager shall approve or disapprove of any deviation from specified sampling procedures.

Requests to waive testing for any pollutant specified in C of this condition shall be submitted to the TCEQ Office of Air, Air Permits Division.

- C. Air contaminants emitted from the kiln stacks to be tested for include (but are not limited to) total PM, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC.
- D. Petroleum coke shall contribute at least 80 percent of the fuel heat input to Kiln No. 6 during sampling.

- E. Sampling shall occur within 60 days of initial start-up of the kiln after completion of the preheater and baghouse addition. Requests for additional time to perform sampling shall be submitted to the TCEQ DFW Regional Office.
- F. The kilns should operate as close to the proposed maximum production rate as possible during testing.
- G. The sampling report or an attachment to the sampling report must include a section listing the kiln operating parameters experienced during testing and discuss how each was determined. Parameters to be reported include: petroleum coke feed rate; natural gas flow rate; quicklime production rate; limestone feed rate; fuel sulfur content (weight percent, wet or as received basis); fuel high heating value; the SO<sub>2</sub> removal efficiency of the kiln system; and the kiln production rate limit. **(11/06)**
- H. Two copies of the final sampling report shall be forwarded to the TCEQ within 45 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ Sampling Procedures Manual. The reports shall be distributed as follows:
  - (1) One copy to the TCEQ DFW Regional Office
  - (2) One copy to the EPA, Region 6, Dallas

### **Continuous Determination of Compliance**

- 15. The permit holder shall conduct and record visible emission observations on the Kiln No. 5 (EPN 5-EP-1) stack on a daily basis, in accordance with the requirements specified in 40 CFR § 64.7(c). **(4/09)**
- 16. The permit holder shall install, calibrate, and maintain a continuous opacity monitoring system (COMS) on the Kiln No. 6 (EPN 6-AS-1) stack to be operated in accordance with 40 CFR § 60.13. **(5/14)**
- 17. The permit holder shall conduct and record visible emission observations on EPNs 6-AS-2, 6-AS-3, and 6-AS-4 on a weekly basis, in accordance with the requirements specified in 40 CFR § 64.7(c). **(5/14)**
- 18. The permit holder shall take samples and perform testing to determine the total sulfur content, heating value (British thermal unit per pound), and trace metal composition of the coal and petroleum coke fired in Kiln Nos. 5 and 6 upon changing suppliers of these fuels. **(5/14)**
- 19. The holder of this permit shall install, calibrate, maintain, and operate devices for measuring the mass rate of stone feed and solid fuels to Kiln Nos. 5 and 6, as well as the volumetric flow rate of gaseous fuel to the kiln. The measuring devices used must be calibrated according to manufacturer recommendations and be accurate to within ±5 percent of the mass rate or volumetric flow rate (for natural gas) over their operating range. **(5/14)**

20. The permit holder shall install, calibrate, maintain, and operate a programmable logic controller (PLC) on Kiln Nos. 5 and 6 which continuously (at least once per hour) monitors and records the sulfur loading rate to the kiln. Inputs to this system shall include the sulfur content of the fuels fired in the kiln; the sulfur content of the raw limestone feed; and the feed rate of the stone and fuels fired in order to maintain compliance with Special Condition No. 5. **(5/14)**
21. The holder of this permit shall perform stack sampling and other testing as required to establish the actual quantities of air contaminants being emitted into the atmosphere from Kiln No. 6 while the kiln is firing coal as its sole source of fuel. This additional stack sampling shall be triggered when coal contributes in excess of 50 percent of the heat input to the kiln for a period of 30 cumulative days (not necessarily consecutive days). Sampling shall be conducted in accordance with all the requirements in Special Condition No. 14 (except paragraph D; and paragraph G, modified to report coal feed rate instead of petroleum coke) and must occur within 60 days of the trigger date. Requests for additional time to perform sampling shall be submitted to the TCEQ DFW Regional Office. **(5/14)**
22. The permit holder shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) or predicative emissions monitoring system (PEMS) on Kiln Nos. 5 and 6 in order to monitor stack exhaust NO<sub>x</sub> to demonstrate continuous compliance with the kiln emission standard of 3.7 pounds of NO<sub>x</sub> per ton of lime production, as specified in 30 TAC § 117.410(b)(7)(A). This emission standard can be demonstrated on either an individual kiln basis or on a site-wide production rate weighted average basis in accordance with 30 TAC § 117.410(b)(7)(A). **(4/09)**

### **Recordkeeping Requirements**

23. The following information shall be maintained on-site by the permit holder in a form suitable for inspection for a period of five years after collection and shall be made immediately available upon request to representatives of the TCEQ, EPA, or any local air pollution control program having jurisdiction: **(5/14)**
  - A. The quantity of natural gas (million cubic feet), coal (pounds), and petroleum coke (pounds) fired in each kiln per day.
  - B. Records of the daily hours of operation for each kiln.
  - C. Records of the daily quantity of limestone feed to each kiln.
  - D. The weight percent of sulfur (on an as-fired basis) in weekly grab samples of coal and petroleum coke used as fuel in the kilns. The weight percent of sulfur in the raw limestone feed shall be determined and recorded every successive 12-month period. The fuel and limestone sulfur analyses shall be input to the PLC to determine hourly sulfur feed rates.
  - E. The quantity of CaO (tons) produced per day by each kiln, on a rolling 30-day average.

- F. Records of the dates when coal is used as fuel in Kiln No. 6; and, for those dates, records of the percent of kiln heat input provided by coal.
  - G. Records of sampling required in Special Condition No. 18.
  - H. Hourly average input monitoring records from the PLC system described in Special Condition No. 20.
  - I. Records of the number of hours the kiln or PLC system is not in operation including the date of downtime periods and cause of downtime.
  - J. Records of stack testing to demonstrate compliance with promulgated regulatory emission specifications as well as the conditions of this permit.
  - K. Record of CEMS or PEMS NO<sub>x</sub> emissions compliance monitoring results described in Special Condition No. 22.
  - L. Records of visible emissions inspections in accordance with Special Condition No. 15. A reading greater than 15 percent is a deviation.
  - M. Records of visible emission inspections in accordance with Special Condition No. 17. A reading greater than 20 percent for the 6-AS-2, 6-AS-3, and 6-AS-4 fabric filters are deviations.
  - N. Records of COMS data per Special Condition No. 16. A COMS exceedance greater than 15 percent for 6-AS-1 (Kiln 6) stack is a deviation.
  - O. Records of equipment calibrations as required by this permit.
  - P. Records of planned MSS, including the following, to demonstrate compliance with Special Condition Nos. 11-12 and the MAERT:
    - (1) Records of startup and shutdown of the kilns, including the date, time, duration, and emissions associated with those activities.
    - (2) Records of ILE planned maintenance activities and annual validations.
24. Representative and registration of Standard Permit Registration No. 73033 (Standard permit for Pollution Control Projects for installation of a fabric filter) is incorporated into this permit by reference. **(9/04)**
25. The table below lists the sources or activities that are authorized by permits by rule (PBR) under Title 30 Texas Administrative Code (30 TAC) Chapter 106. This list is not intended to be all inclusive and can be altered at the site without modifications to this permit. **(5/14)**

Source or Activity	Authorization
Combustion units used for comfort heating	PBR 106.102
Bench scale laboratory equipment	PBR 106.1.22
Bulk mineral handling	PBR 106.144
Hot water heater	PBR 106.183

Brazing, soldering, and welding	PBR 106.227
Miscellaneous maintenance (painting, abrasive blasting, etc.)	PBR 106.263
Hand-held or manually operated equipment used for buffing, polishing, cutting, drilling, sanding, sawing, etc.	PBR 106.265
Vacuum cleaning systems (offices)	PBR 106.266
Storage of pressurized cylinders (industrial gases)	PBR 106.372
Hydrators (lime slaking units)	PBR 106.374
Parts washer, solvent cleaning	PBR 106.454
Storage tanks	PBR 106.472
Storage tanks	PBR 106.473
Emergency engines and portable small engines	PBR 106.511

Date: May 15, 2014

### Attachment A

Permit Numbers 24213 and PSDTX54

Inherently Low Emitting Maintenance Activities

<b>Planned Maintenance Activity</b>	<b>VOC</b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>PM</b>	<b>SO<sub>2</sub></b>
Kiln particulate filter maintenance				X	
Miscellaneous particulate filter maintenance				X	
Kiln refractory/rebrick maintenance operations				X	
Vacuum truck solids loading				X	
Vacuum truck solids unloading				X	
LKD truck unloading in quarry				X	
Fines material truck loading				X	
Fines material truck unloading to quarry				X	
Lube equipment maintenance	X				
CEMS calibration		X			

Date: May 15, 2014

## Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 24213 and PSDTX54

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

### Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (5)	
			lb/hour	TPY (4)
5-EP-1	Lime Kiln No. 5	CO	22.9	96.0
		SO <sub>2</sub>	13.9	57.8
		PM	7.4	30.8
		PM <sub>10</sub>	7.4	30.8
		VOC	1.02	3.90
		HCl	0.4	1.24
6-AS-1	Lime Kiln No. 6	CO	38.6	158.3
		SO <sub>2</sub>	58.2	237.1
		PM	9.0	36.8
		PM <sub>10</sub>	9.0	36.8
		VOC	1.0	3.8
		HCl	0.5	1.7
5-EP-1 and 6-AS-1	Kiln Nos. 5 and 6 combined emissions	NO <sub>x</sub> (6)	233.2	1027.4
6-AS-2	Dust Bin Dust Collector	PM	0.36	1.58
		PM <sub>10</sub>	0.36	1.58
6-AS-3	Dust Bin Loadout Dust Collector	PM	0.13	0.56
		PM <sub>10</sub>	0.13	0.56
6-AS-4	Nos. 5 and 6 Kiln Cooler Area Dust Collector	PM	0.51	2.25
		PM <sub>10</sub>	0.51	2.25
MSSFUG	Sitewide Inherently Low Emitting (ILE) Planned Maintenance Activities	NO <sub>x</sub>	<0.01	<0.01
		VOC	1.14	<0.01
		PM	1.08	1.93
		PM <sub>10</sub>	0.52	0.92
		PM <sub>2.5</sub>	0.10	0.13

Emission Sources - Maximum Allowable Emission Rates

- (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<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- HCl - hydrogen chloride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Planned maintenance, startup, and shutdown emissions are included.
- (6) Hourly NO<sub>x</sub> emission rates are based on a rolling 30-day average.

Date: May 15, 2014