



State of Utah

GARY R. HERBERT
Governor

Department of
Environmental Quality

Amanda Smith
Acting Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

10707

Title V Operating Permit

PERMIT NUMBER: 4500005002

DATE OF PERMIT: August 11, 2009

Date of Last Revision: August 11, 2009

This Operating Permit is issued to, and applies to the following:

Name of Permittee:

Chemical Lime Company
PO Box 537
Grantsville, UT 84029

Permitted Location:

Grantsville Plant
8700 N. Ellerbeck Rd.
Grantsville, UT 84029

UTM coordinates: 369,000 m Easting, 4,504,800 m Northing

SIC code: 3274 (Lime)

UTAH AIR QUALITY BOARD

By:

Prepared By:

M. Cheryl Heying, Executive Secretary

Brandy Cannon

ENFORCEABLE DATES AND TIMELINES

The following dates or timeframes are referenced in
Section I: General Provisions of this permit.

Annual Certification Due: March 5 of every calendar year that this permit is in force.

Renewal application due: February 11, 2014

Permit expiration date: August 11, 2014

Definition of “prompt”: written notification within 14 days.

ABSTRACT

Chemical Lime Company operates the Grantsville Lime Facility in Tooele County, Utah. This facility has been in operation since 1960. The Grantsville Lime Facility consists of the Grantsville Quarry and the Grantsville Lime Plant, including mining activities, limestone processing, one rotary lime kiln, post-kiln lime handling, a quicklime hydrator & associated equipment, bagging facilities, and truck & rail loadout facilities. The rotary kiln is used to convert crushed limestone ore into quicklime. The products produced are quicklime, hydrate, aggregate kiln-grade limestone, overburden/low-grade limestone, chat, and wires & char from tires. The major sources of air emissions are mining and material handling, the combustion of fuels for the kiln operation, and the kiln and cooling process. The Grantsville Lime Facility is a major source for emissions of PM₁₀, NO_x, and CO.

OPERATING PERMIT HISTORY

Permit/Activity	Date Issued	Recorded Changes
Title V renewal application (Project #OPP0107070008)	8/11/2009	Changes: CAM applies to the Rotary Kiln (20-1, DS1RK). CAM is included in the renewal permit in Condition II.B.4.b. Other changes to the renewal permit include corrections to the equipment list in Section II.A, addition of fugitive emission condition, new language to clarify monitoring during periods of suspended operation, and updates to rule references.
Title V administrative amendment by DAQ (Project #OPP0107070005)	10/25/2006	Changes: to incorporate changes approved in DAQE-AN0707015-06, dated 8/14/06, to allow use of on-site or off-site generated on-spec used oil, to remove the rail unloading system, and to remove the plant generated on-spec used oil fuel limit.
Title V administrative amendment by DAQ (Project #OPP0107070003)	10/29/2004	Changes: Incorporate new requirements of DAQE-AN0707013-03 into Title V operating permit, which includes a new rail unloading system.
Title V administrative amendment by source (Project #OPP0107070002)	9/19/2001	Changes: for addition of a second bagging line.
Title V initial application (Project #OPP0107070001)	3/5/2001	

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Issued under authority of Utah Code Ann. Section 19-2-104 and 19-2-109.1, and in accordance with Utah Administrative Code R307-415 Operating Permit Requirements.

All definitions, terms and abbreviations used in this permit conform to those used in Utah Administrative Code R307-101 and R307-415 (Rules), and 40 Code of Federal Regulations (CFR), except as otherwise defined in this permit. Unless noted otherwise, references cited in the permit conditions refer to the Rules.

Where a permit condition in Section I, General Provisions, partially recites or summarizes an applicable rule, the full text of the applicable portion of the rule shall govern interpretations of the requirements of the rule. In the case of a conflict between the Rules and the permit terms and conditions of Section II, Special Provisions, the permit terms and conditions of Section II shall govern except as noted in Provision I.M, Permit Shield.

SECTION I: GENERAL PROVISIONS

I.A Federal Enforcement.

All terms and conditions in this permit, including those provisions designed to limit the potential to emit, are enforceable by the EPA and citizens under the Clean Air Act of 1990 (CAA) except those terms and conditions that are specifically designated as "State Requirements". (R307-415-6b)

I.B Permitted Activity(ies).

Except as provided in R307-415-7b(1), the permittee may not operate except in compliance with this permit. (See also Provision I.E, Application Shield)

I.C Duty to Comply.

I.C.1 The permittee must comply with all conditions of the operating permit. Any permit noncompliance constitutes a violation of the Air Conservation Act and is grounds for any of the following: enforcement action; permit termination; revocation and reissuance; modification; or denial of a permit renewal application. (R307-415-6a(6)(a))

I.C.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (R307-415-6a(6)(b))

I.C.3 The permittee shall furnish to the Executive Secretary, within a reasonable time, any information that the Executive Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Executive Secretary copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the EPA along with a claim of confidentiality. (R307-415-6a(6)(e))

I.C.4 This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance shall not stay any permit condition, except as provided under R307-415-7f(1) for minor permit modifications. (R307-415-6a(6)(c))

I.D Permit Expiration and Renewal.

I.D.1 This permit is issued for a fixed term of five years and expires on the date shown under "Enforceable Dates and Timelines" at the front of this permit. (R307-415-6a(2))

I.D.2 Application for renewal of this permit is due on or before the date shown under "Enforceable Dates and Timelines" at the front of this permit. An application may be submitted early for any reason. (R307-415-5a(1)(c))

I.D.3 An application for renewal submitted after the due date listed in I.D.2 above shall be accepted for processing, but shall not be considered a timely application and shall not relieve the permittee of any enforcement actions resulting from submitting a late application. (R307-415-5a(5))

I.D.4 Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted consistent with R307-415-7b (see also Provision I.E, Application Shield) and R307-415-5a(1)(c) (see also Provision I.D.2). (R307-415-7c(2))

I.E **Application Shield.**

If the permittee submits a timely and complete application for renewal, the permittee's failure to have an operating permit will not be a violation of R307-415, until the Executive Secretary takes final action on the permit renewal application. In such case, the terms and conditions of this permit shall remain in force until permit renewal or denial. This protection shall cease to apply if, subsequent to the completeness determination required pursuant to R307-415-7a(3), and as required by R307-415-5a(2), the applicant fails to submit by the deadline specified in writing by the Executive Secretary any additional information identified as being needed to process the application. (R307-415-7b(2))

I.F **Severability.**

In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force. (R307-415-6a(5))

I.G **Permit Fee.**

I.G.1 The permittee shall pay an annual emission fee to the Executive Secretary consistent with R307-415-9. (R307-415-6a(7))

I.G.2 The emission fee shall be due on October 1 of each calendar year or 45 days after the source receives notice of the amount of the fee, whichever is later. (R307-415-9(4)(a))

I.H **No Property Rights.**

This permit does not convey any property rights of any sort, or any exclusive privilege. (R307-415-6a(6)(d))

I.I **Revision Exception.**

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (R307-415-6a(8))

I.J **Inspection and Entry.**

I.J.1 Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Executive Secretary or an authorized representative to perform any of the following:

- I.J.1.a Enter upon the permittee's premises where the source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit. (R307-415-6c(2)(a))
- I.J.1.b Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit. (R307-415-6c(2)(b))
- I.J.1.c Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practice, or operation regulated or required under this permit. (R307-415-6c(2)(c))
- I.J.1.d Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements. (R307-415-6c(2)(d))

I.J.2 Any claims of confidentiality made on the information obtained during an inspection shall be made pursuant to Utah Code Ann. Section 19-1-306. (R307-415-6c(2)(e))

I.K Certification.

Any application form, report, or compliance certification submitted pursuant to this permit shall contain certification as to its truth, accuracy, and completeness, by a responsible official as defined in R307-415-3. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (R307-415-5d)

I.L Compliance Certification.

I.L.1 Permittee shall submit to the Executive Secretary an annual compliance certification, certifying compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall be submitted no later than the date shown under "Enforceable Dates and Timelines" at the front of this permit, and that date each year following until this permit expires. The certification shall include all the following (permittee may cross-reference this permit or previous reports): (R307-415-6c(5))

I.L.1.a The identification of each term or condition of this permit that is the basis of the certification;

I.L.1.b The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements in this permit. If necessary, the permittee also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information;

I.L.1.c The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in Provision I.L.1.b. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and

- I.L.1.d Such other facts as the Executive Secretary may require to determine the compliance status.
- I.L.2 The permittee shall also submit all compliance certifications to the EPA, Region VIII, at the following address or to such other address as may be required by the Executive Secretary: (R307-415-6c(5)(d))

Environmental Protection Agency, Region VIII
Office of Enforcement, Compliance and Environmental Justice
(mail code 8ENF)
1595 Wynkoop Street
Denver, CO 80202-1129

I.M Permit Shield.

- I.M.1 Compliance with the provisions of this permit shall be deemed compliance with any applicable requirements as of the date of this permit, provided that:
- I.M.1.a Such applicable requirements are included and are specifically identified in this permit, or (R307-415-6f(1)(a))
- I.M.1.b Those requirements not applicable to the source are specifically identified and listed in this permit. (R307-415-6f(1)(b))
- I.M.2 Nothing in this permit shall alter or affect any of the following:
- I.M.2.a The emergency provisions of Utah Code Ann. Section 19-1-202 and Section 19-2-112, and the provisions of the CAA Section 303. (R307-415-6f(3)(a))
- I.M.2.b The liability of the owner or operator of the source for any violation of applicable requirements under Utah Code Ann. Section 19-2-107(2)(g) and Section 19-2-110 prior to or at the time of issuance of this permit. (R307-415-6f(3)(b))
- I.M.2.c The applicable requirements of the Acid Rain Program, consistent with the CAA Section 408(a). (R307-415-6f(3)(c))
- I.M.2.d The ability of the Executive Secretary to obtain information from the source under Utah Code Ann. Section 19-2-120, and the ability of the EPA to obtain information from the source under the CAA Section 114. (R307-415-6f(3)(d))

I.N Emergency Provision.

- I.N.1 An "emergency" is any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. (R307-415-6g(1))
- I.N.2 An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the affirmative defense is demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- I.N.2.a An emergency occurred and the permittee can identify the causes of the emergency.

(R307-415-6g(3)(a))

- I.N.2.b The permitted facility was at the time being properly operated. (R307-415-6g(3)(b))
- I.N.2.c During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit. (R307-415-6g(3)(c))
- I.N.2.d The permittee submitted notice of the emergency to the Executive Secretary within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the requirement of Provision I.S.2.c below. (R307-415-6g(3)(d))
- I.N.3 In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. (R307-415-6g(4))
- I.N.4 This emergency provision is in addition to any emergency or upset provision contained in any other section of this permit. (R307-415-6g(5))

I.O Operational Flexibility.

Operational flexibility is governed by R307-415-7d(1).

I.P Off-permit Changes.

Off-permit changes are governed by R307-415-7d(2).

I.Q Administrative Permit Amendments.

Administrative permit amendments are governed by R307-415-7e.

I.R Permit Modifications.

Permit modifications are governed by R307-415-7f.

I.S Records and Reporting.

I.S.1 Records.

I.S.1.a The records of all required monitoring data and support information shall be retained by the permittee for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-charts or appropriate recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. (R307-415-6a(3)(b)(ii))

I.S.1.b For all monitoring requirements described in Section II, Special Provisions, the source shall record the following information, where applicable: (R307-415-6a(3)(b)(i))

I.S.1.b.1 The date, place as defined in this permit, and time of sampling or measurement.

I.S.1.b.2 The date analyses were performed.

- I.S.1.b.3 The company or entity that performed the analyses.
- I.S.1.b.4 The analytical techniques or methods used.
- I.S.1.b.5 The results of such analyses.
- I.S.1.b.6 The operating conditions as existing at the time of sampling or measurement.
- I.S.1.c Additional record keeping requirements, if any, are described in Section II, Special Provisions.
- I.S.2 Reports.
 - I.S.2.a Monitoring reports shall be submitted to the Executive Secretary every six months, or more frequently if specified in Section II. All instances of deviation from permit requirements shall be clearly identified in the reports. (R307-415-6a(3)(c)(i))
 - I.S.2.b All reports submitted pursuant to Provision I.S.2.a shall be certified by a responsible official in accordance with Provision I.K of this permit. (R307-415-6a(3)(c)(i))
 - I.S.2.c The Executive Secretary shall be notified promptly of any deviations from permit requirements including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventative measures taken. Prompt, as used in this condition, shall be defined as written notification within the number of days shown under "Enforceable Dates and Timelines" at the front of this permit. Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107. (R307-415-6a(3)(c)(ii)). [R307-415-6a]
- I.S.3 Notification Addresses.
 - I.S.3.a All reports, notifications, or other submissions required by this permit to be submitted to the Executive Secretary are to be sent to the following address or to such other address as may be required by the Executive Secretary:

Utah Division of Air Quality
P.O. Box 144820
Salt Lake City, UT 84114-4820
Phone: 801-536-4000
 - I.S.3.b All reports, notifications or other submissions required by this permit to be submitted to the EPA should be sent to one of the following addresses or to such other address as may be required by the Executive Secretary:

For annual compliance certifications:

Environmental Protection Agency, Region VIII
Office of Enforcement, Compliance and Environmental Justice
(mail code 8ENF)
1595 Wynkoop Street
Denver, CO 80202-1129

For reports, notifications, or other correspondence related to permit modifications, applications, etc.:

Environmental Protection Agency, Region VIII
Office of Partnerships & Regulatory Assistance Air & Radiation Program
(mail code 8P-AR)
1595 Wynkoop Street
Denver, CO 80202-1129
Phone: 303-312-6440

I.T Reopening for Cause.

I.T.1 A permit shall be reopened and revised under any of the following circumstances:

I.T.1.a New applicable requirements become applicable to the permittee and there is a remaining permit term of three or more years. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the terms and conditions of this permit have been extended pursuant to R307-415-7c(3), application shield. (R307-415-7g(1)(a))

I.T.1.b The Executive Secretary or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (R307-415-7g(1)(c))

I.T.1.c EPA or the Executive Secretary determines that this permit must be revised or revoked to assure compliance with applicable requirements. (R307-415-7g(1)(d))

I.T.1.d Additional applicable requirements are to become effective before the renewal date of this permit and are in conflict with existing permit conditions. (R307-415-7g(1)(e))

I.T.2 Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the Acid Rain Program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into this permit. (R307-415-7g(1)(b))

I.T.3 Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. (R307-415-7g(2))

I.U Inventory Requirements.

An emission inventory shall be submitted in accordance with the procedures of R307-150, Emission Inventories. (R307-150)

I.V Title IV and Other, More Stringent Requirements

Where an applicable requirement is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, Acid Deposition Control, both provisions shall be incorporated into this permit. (R307-415-6a(1)(b))

SECTION II: SPECIAL PROVISIONS

- II.A **Emission Unit(s) Permitted to Discharge Air Contaminants.**
(R307-415-4(3)(a) and R307-415-4(4))
- II.A.1 **Permitted Source**
Source-wide
- II.A.2 **LQ: Limestone Quarry**
All mining activities, including drilling & blasting, not otherwise specified. No unit-specific applicable requirements.
- II.A.3 **40-HRT: Haul Road Traffic**
Fugitive dust from traffic on unpaved haul roads between the quarry and the crushers. (Opacity survey to be completed from observation point C for this unit).
- II.A.4 **40-UROA: Unpaved Roads & Unpaved Operational Areas (Pre)**
Fugitive dust from other unpaved roads and unpaved operational areas and all disturbed surfaces or stripped areas constructed prior to April 25, 1971.
- II.A.5 **20-UROA: Unpaved Roads & Unpaved Operational Areas (Post)**
Fugitive dust from other unpaved roads and unpaved operational areas and all disturbed surfaces or stripped areas constructed after April 25, 1971.
- II.A.6 **Opacity-Fugitive Dust: Haul Roads and Unpaved Roads & Areas**
Includes 40-HRT, 40-UROA, and 20 UROA
- II.A.7 **40-1, CP-Jcrush: Primary Crusher**
Pre November 29, 1969 Jaw Crusher rated at approximately 200 tph. (Opacity survey to be completed from observation point A for this unit).
- II.A.8 **40-2, CP-Screen: Vibrating Screen**
Pre November 29, 1969 vibrating screen rated at approximately 300 tph. (Opacity survey to be completed from observation point A for this unit).
- II.A.9 **40-3, CP-Gcrush: Secondary Cone Crusher**
Pre November 29, 1969 gyratory cone crusher rated at approximately 125 tph. (Opacity survey to be completed from observation point A for this unit).
- II.A.10 **40-4, CP-Belt1 to CP-PriPile: Conveyor Drop Point 1**
Material drop point from Belt 1 to primary storage pile. (Opacity survey to be completed from observation point A for this unit).
- II.A.11 **40-5, CP-Belt4 to CP-KilnPile: Conveyor Drop Point 2**
Material drop point from Belt 4 to kiln storage pile. (Opacity survey to be completed from observation point A for this unit).
- II.A.12 **LSHE: Limestone Handling Equipment and Stockpiles**
Pre November 29, 1969, limestone handling equipment, including feed hopper, all equipment drops to stockpiles, and all stockpiles. (Opacity survey to be completed from observation point A for this unit).
- II.A.13 **LHHE: Lime and Quicklime Hydrate Handling Equipment**
Pre Nov. 29, 1969, lime and hydrate handling equipment, including screw conveyors, bucket

elevators, universal crusher, pugmill, dribble tubes, portable and reclaim hoppers, gravity chutes, hammermill, mixers, pumps, and collector. (Opacity survey to be completed from observation point A or B for this unit).

- II.A.14 **LS: Limestone and Lime Screening**
Pre November 29, 1969, all screens, other than 4x8 vibrating screen (K-SCREEN), that handle limestone and lime. (Opacity survey to be completed from observation point A for this unit).
- II.A.15 **BINS: Bins**
Pre November 29, 1969, product storage bins (FL-2Bin, FL-3Bin, FL-6Bin to FL-10Bin, BL-4Bin, BL-5Bin), dust bin (K-DBin1), chat bin (CP-Cbin), stone bin (K-Sbin), waste bin (FL-Wbin), surge bin (H-Sbin), and out-of-spec bin. (Opacity survey to be completed from observation point A or B for this unit).
- II.A.16 **10-1, FL1Bin: 500 Ton Storage Bin**
500 ton storage bin controlled by baghouse (DC-1QS). (Opacity survey to be completed from observation point B for this unit).
- II.A.17 **10-4, H-3Silo: 120 ton Storage Silo**
120 Ton storage silo for second bagger line.
- II.A.18 **10-2, K-DBin2: 25 Ton Storage Bin**
25 ton dust storage bin controlled by baghouse (DC-8KD). (Opacity survey to be completed from observation point B for this unit).
- II.A.19 **Sbin: 2 Ton Storage Bin**
2 ton dust storage bin (2 ton dust bin has not been installed to date).
- II.A.20 **10-3, K-PnTrn: Pneumatic Dust Transfer System**
Pneumatic dust transfer system located between dust bins (K-DBin1 & K-DBin2) controlled by a baghouse (DC-6KD). (Opacity survey to be completed from observation point B for this unit).
- II.A.21 **20-1, DS1RK: Rotary Kiln**
Rotary kiln with electro dry scrubber (DS-1RK), cyclone, gravel bed, and electro grid. The kiln may be fired on natural gas, fuel oil, on- or off-site generated on-spec used oil, or tire derived fuel (TDF) only. (Opacity survey to be completed from observation point A for this unit).
- II.A.22 **20-2, K-Screen: Vibrating Screen**
4x8 vibrating screen within rotary kiln system. (Opacity survey to be completed from observation point A for this unit).
- II.A.23 **20-3, HBH-1HY: Hydrator**
Pressure hydrator with emissions controlled by a baghouse (HBH-1HY). (Opacity survey to be completed from observation point A for this unit).
- II.A.24 **20-4, DC-1QS: Baghouse #1**
Baghouse controlling emissions from front lime handling system product bins (FL-1Bin, FL-9Bin, & FL-10Bin), and universal crusher (FL-Ucrush). (Opacity survey to be completed from observation point A for this unit).
- II.A.25 **20-5, DC-2QP: Baghouse #2**
Baghouse controlling emissions from front lime handling system bins (FL-2Bin, FL-3Bin, FL-8Bin), screens, and belt conveyors; back lime handling system product bins (BL-4Bin, BL-5Bin); and hydrate system surge bin (H-Sbin). (Opacity survey to be completed from observation point A for this unit).

- II.A.26 **20-6, DC-3HB: Baghouse #3**
Baghouse controlling emissions from hydrate system screw conveyors, bucket elevators, separators (H-1Sprtr & H-2Sprtr), and hydrate bagger. (Opacity survey to be completed from observation point A for this unit).
- II.A.27 **20-7, DC-4LO: Baghouse #4**
Baghouse controlling emissions from back lime handling system loadout rotary screen, rail loadout & screw conveyor, and hydrate system bulk loadout. (Opacity survey to be completed from observation point B for this unit).
- II.A.28 **20-8, DC-5LO: Baghouse #5**
Baghouse controlling emissions from back lime handling system transfer point to belt conveyor, and hydrate system bulk loadout screw conveyor. (Opacity survey to be completed from observation point B for this unit).
- II.A.29 **20-9, CTP-CPBelt1: Conveyor Transfer Point 9**
Conveyor transfer point to CP-Belt1. (Opacity survey to be completed from observation point A for this unit).
- II.A.30 **20-10, CTP-CPBelt2: Conveyor Transfer Point 10**
Conveyor transfer point to CP-Belt2. (Opacity survey to be completed from observation point A for this unit).
- II.A.31 **20-11, CTP-CPBelt2: Conveyor Transfer Point 11**
Conveyor transfer point from CP-Belt2. (Opacity survey to be completed from observation point A for this unit).
- II.A.32 **20-12, CTP-CPBelt4: Conveyor Transfer Point 12**
Conveyor transfer point to CP-Belt4. (Opacity survey to be completed from observation point A for this unit).
- II.A.33 **20-13 CTP-CPBelt5: Conveyor Transfer Point 13**
Conveyor transfer point to CP-Belt5. (Opacity survey to be completed from observation point A for this unit).
- II.A.34 **20-14CTP-CPBelt5: Conveyor Transfer Point 14**
Conveyor transfer point from CP-Belt5. (Opacity survey to be completed from observation point A for this unit).
- II.A.35 **20-15, CTP-CPBelt3: Conveyor Transfer Point 15**
Conveyor transfer point to CP-Belt3. (Opacity survey to be completed from observation point A for this unit).
- II.A.36 **20-16, CTP-CPBelt3: Conveyor Transfer Point 16**
Conveyor transfer point from CP-Belt3. (Opacity survey to be completed from observation point A for this unit).
- II.A.37 **20-17, CTP-Kbelt: Conveyor Transfer Point 17**
Conveyor transfer point to K-Belt. This unit is not included in opacity surveys due to its location being underground. No unit-specific applicable requirements.
- II.A.38 **20-18, CTP-Kbelt: Conveyor Transfer Point 18**
Conveyor transfer points from K-Belt, includes two transfer points. (Opacity survey to be completed from observation point A for this unit).

- II.A.39 **20-19, CTP-FLBelt1: Conveyor Transfer Point 19**
 Conveyor transfer points to FL-Belt1, includes three transfer points. (Opacity survey to be completed from observation point A for this unit).
- II.A.40 **20-20, CTP-FLBelt1: Conveyor Transfer Point 20**
 Conveyor transfer point from FL-Belt1. (Opacity survey to be completed from observation point A for this unit).
- II.A.41 **20-21, CTP-FLBelt2: Conveyor Transfer Point 21**
 Conveyor transfer point to FL-Belt2. (Opacity survey to be completed from observation point A for this unit).
- II.A.42 **20-22, CTP-FLBelt2: Conveyor Transfer Point 22**
 Conveyor transfer points from FL-Belt2, includes two transfer points. (Opacity survey to be completed from observation point A for this unit).
- II.A.43 **20-23, CTP-BLBelt: Conveyor Transfer Point 23**
 Conveyor transfer points to BL-Belt, includes eight transfer points. (Opacity survey to be completed from observation point B for this unit).
- II.A.44 **20-24, CTP-BLBelt: Conveyor Transfer Point 24**
 Conveyor transfer points from BL-Belt, includes two transfer points. (Opacity survey to be completed from observation point B for this unit).
- II.A.45 **20-25, CTP-HBelt1: Conveyor Transfer Point 25**
 Conveyor transfer points to H-Belt1. This unit is not included in the opacity surveys due to its location being inside of a building. No unit-specific applicable requirements.
- II.A.46 **20-26, CTP-HBelt1: Conveyor Transfer Point 26**
 Conveyor transfer points from H-Belt1. This unit is not included in the opacity surveys due to its location being inside of a building. No unit-specific applicable requirements.
- II.A.47 **20-27, CTP-HBelt2: Conveyor Transfer Point 27**
 Conveyor transfer points to H-Belt2. This unit is not included in the opacity surveys due to its location being inside of a building. No unit-specific applicable requirements.
- II.A.48 **20-28, CTP-HBelt2: Conveyor Transfer Point 28**
 Conveyor transfer points from H-Belt2. This unit is not included in the opacity surveys due to its location being inside of a building. No unit-specific applicable requirements.
- II.A.49 **20-29, CTP-Bagger: Conveyor Transfer Point 29**
 Conveyor transfer point to belt conveyor from bagger. This unit is not included in the opacity surveys due to it only carries bagged material. No unit-specific applicable requirements.
- II.A.50 **20-30, CTP-Palletizer: Conveyor Transfer Point 30**
 Conveyor transfer point from belt conveyor to palletizer. This unit is not included in the opacity surveys due to its location being inside of a building. No unit-specific applicable requirements.
- II.A.51 **Opacity-10: 10 Percent Opacity Units**
 Includes units 10-1 through 10-5.
- II.A.52 **Opacity-20: 20 Percent Opacity Units**
 Includes units 20-1 through 20-30, and 20-Other.
- II.A.53 **Opacity-40: 40 Percent Opacity Units**
 Includes 40-1, 40-2, 40-3, 40-4, and 40-5.

- II.A.54 **20-Other: Emission Units Not Otherwise Assigned**
All other emission units not otherwise assigned. (Opacity survey to be completed from observation point A for this unit).
- II.A.55 **Opacity-40-FE: 40 Percent Opacity Units Not Otherwise Assigned**
Includes LSHE, LHHE, LS, and BINS.
- II.A.56 **TANKS: Petroleum Storage Tanks**
42,000 gal. fuel oil (1965), 9,000 gal. fuel oil, 1000 gal. Gasoline, 250 gal. diesel fuel, and 10,000 gal. diesel fuel. All tanks listed for informational purposes only. Not subject to NSPS Kb by date or size. No unit-specific applicable requirements.
- II.A.57 **DC-7SC: Baghouse #7**
Baghouse that was installed but has never been operated. Listed for informational purposes only.
- II.A.58 **DC-9HY: Baghouse #9**
Baghouse used to blow clean air into the kiln. Listed for informational purposes only.
- II.A.59 **10-5, DC-10FF: Baghouse #10**
Baghouse controlling emissions from second bagging line, including a bagger (Bagger-2), 120 ton silo (H-3Silo), belt conveyor (H-Belt3) and a screw conveyor (H-Screw22). (Visible Emissions observations shall be taken from observation position A)
- II.A.60 **MISC: Miscellaneous Emissions**
Emission sources with no unit-specific requirements such as painting, laboratory, acetylene combustion, parts cleaners, comfort heaters, sandblasting, portable compression emergency backup pony motor, and trash pump. No unit-specific applicable requirements.

II.B **Requirements and Limitations**

The following emission limitations, standards, and operational limitations apply to the permitted facility as indicated:

II.B.1 **Conditions on permitted source (Source-wide)**

II.B.1.a **Condition:**

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Origin: DAQE-AN0707015-06] [R307-401-8(2), R307-401-8(1)(a)(BACT)]

II.B.1.a.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.1.a.2 **Recordkeeping:**

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.b **Condition:**

The permittee shall comply with the applicable requirements for recycling and emission reduction for class I and class II refrigerants pursuant to 40 CFR 82, Subpart F - Recycling and Emissions Reduction. [Origin: 40 CFR 82 Subpart F] [40 CFR 82.150(b)]

II.B.1.b.1 **Monitoring:**

The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart F.

II.B.1.b.2 **Recordkeeping:**

All records required in 40 CFR 82, Subpart F shall be maintained consistent with the requirements of Provision S.1 in Section I of this permit.

II.B.1.b.3 **Reporting:**

All reports required in 40 CFR 82, Subpart F shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.

II.B.1.c **Condition:**

The permittee shall comply with the applicable requirements for servicing of motor vehicle air conditioners pursuant to 40 CFR 82, Subpart B - Servicing of Motor Vehicle Air Conditioners. [Origin: 40 CFR 82 Subpart B] [40 CFR 82.30(b)]

II.B.1.c.1 **Monitoring:**

The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart B.

II.B.1.c.2 **Recordkeeping:**

All records required in 40 CFR 82, Subpart B shall be maintained consistent with the requirements of Provision S.1 in Section I of this permit.

II.B.1.c.3 **Reporting:**

All reports required in 40 CFR 82, Subpart B shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.

II.B.1.d **Condition:**

Sulfur content of any fuel oil burned shall be no greater than 0.85 lbs/MMBtu heat input. [Origin: DAQE-AN0707015-06] [R307-203-1, R307-401-8(1)(a)(BACT)]

II.B.1.d.1 **Monitoring:**

The following specifications shall be recorded for each purchase of fuel: weight percent sulfur, gross heating value (Btu per unit volume), and density. All specifications shall be ascertained in

accordance with methods of American Society for Testing and Materials.

Sulfur content in lbs/MMBtu shall be determined by the following equation:

$$S \text{ lbs/MMBtu} = [(\text{Weight percent sulfur}/100) \times \text{Density (lb/gal)}] / [(\text{gross heating value (Btu/gal)}) \times (1 \text{ MMBtu}/1,000,000 \text{ Btu})]$$

The permittee may obtain the above specifications by testing each purchase of fuel in accordance with the required methods; by inspection of the specifications provided by the vendor for each purchase of fuel; or by inspection of summary documentation of the fuel sulfur content from the vendor, provided that the above specifications are available from the vendor for each purchase if requested.

II.B.1.d.2 **Recordkeeping:**

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.d.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.2 **Conditions on 40-HRT: Haul Road Traffic**

II.B.2.a **Condition:**

Visible emissions shall be no greater than 40 percent opacity. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.2.a.1 **Monitoring:**

An opacity survey of haul road traffic and mobile equipment in operational areas shall be performed on a monthly basis in accordance with procedures similar to 40 CFR 60, Appendix A, Method 9. The opacity determination shall be performed as follows: The requirement for observations to be made at 15-second intervals over a six minute period shall not apply. Six points, distributed along the length of the haul road or in the operational area shall be chosen either by the permittee or by the executive secretary or his/her representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made one-half the vehicle length or greater behind the vehicle and at approximately one-half the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value. If operations at the quarry and the crusher have been suspended, monitoring is not required.

II.B.2.a.2 **Recordkeeping:**

Results from opacity observations (EPA Method 9) shall be recorded. If operations at the quarry and the crusher have been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.2.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.3 **Conditions on Opacity-Fugitive Dust: Haul Roads and Unpaved Roads & Areas**

II.B.3.a **Condition:**

Fugitive dust shall be minimized at all mining operations including but not limited to: site preparations, construction activities, mining activities, storage sites, roadways, and reclamation operations. Fugitive dust control measures to be used may include: periodic watering, chemical stabilization, paving, removal of spillage, surface compaction, speed restriction, revegetating, restricting travel, stabilizing loaded material, covering conveyor systems, minimizing disturbed areas, drill dust controls, restricting areas to be blasted at one time, restricting fugitive dust at transfer points, or enclosing/covering/stabilizing storage piles. [Origin: R307-205-7, DAQE-AN0707015-06] [R307-205-7, R307-401-8(1)(a)(BACT)]

II.B.3.a.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.3.a.2 **Recordkeeping:**

Records of all fugitive dust control measures utilized shall be made on a basis appropriate to ensure fugitive dust was minimized.

II.B.3.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.3.b **Condition:**

All unpaved roads, other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. Treatment shall be of sufficient frequency and quantity to minimize fugitive dust as necessary to meet opacity limitations. All disturbed surfaces or stripped areas shall be controlled by watering or other means until the areas develop surfaces that are not susceptible to wind erosion or are reclaimed. The opacity shall not exceed 20 percent for all areas constructed after April 25, 1971 and shall not exceed 40 percent for all areas constructed prior to April 25, 1971. The permittee is not required to apply water to surfaces during freezing conditions. If chemical treatment is to be used, the plan shall be pre-approved by the Executive Secretary. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.3.b.1 **Monitoring:**

In lieu of opacity monitoring, daily hours of operation of the water truck(s), and the days when chemical dust suppressants were applied to the areas shall be monitored. If operations have been suspended on unpaved roads and other unpaved operational areas, daily monitoring is not required.

II.B.3.b.2 **Recordkeeping:**

Records of all fugitive dust control measures utilized shall be made on a basis appropriate to ensure fugitive dust was minimized. Records shall include the volume of water applied and location of applications, or the type of chemical dust suppressant applied and location of applications. The methods used to control disturbed or stripped areas shall be recorded as they occur, and include dates and times, the types of control used, volume, and locations. If operations have been suspended on unpaved roads and other unpaved operational areas, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.3.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.4

Conditions on 20-1, DS1RK: Rotary Kiln

II.B.4.a

Condition:

Emissions of TSP shall be no greater than 30.98 lbs/hour and no greater than 0.24 grain/dscf. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.4.a.1

Monitoring:

Stack testing shall be performed as specified below:

- (a) Frequency. Emissions shall be tested every three years. If unit operations have been suspended when a regularly scheduled stack test is required, emissions shall be tested within 180 days of resuming operation. Tests may also be required at the direction of the Executive Secretary.
- (b) Notification. At least 30 days before the test, the source shall notify the Executive Secretary of the date, time, and place of testing and provide a copy of the test protocol. The source shall attend a pretest conference if determined necessary by the Executive Secretary. The permittee shall notify the Executive Secretary at least 30 days before a regularly scheduled stack test is required, if unit operations have been suspended.
- (c) Methods.
 - (1) Sample Location - the emission point shall conform to the requirements of 40 CFR 60, Appendix A, Method 1, and Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.
 - (2) Sample Method - 40 CFR 60, Appendix A, Method 5 shall be used to determine the particulate matter concentration.
- (d) Calculations. To determine mass emission rates (lb./hr., etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary to give the results in the specified units of the emission limitation.
- (e) Production Rate During Testing. The production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

II.B.4.a.2

Recordkeeping:

Results of all stack testing shall be recorded and maintained in accordance with the associated test method. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.4.a.3

Reporting:

The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. There are no additional reporting requirements for this provision except those specified in Section I of this permit.

II.B.4.b

Condition:

Emissions of PM₁₀ shall be no greater than 24.78 lbs/hour and no greater than 0.19 grain/dscf. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

Monitoring:

- a) Stack testing shall be performed as specified below:
- (1) Frequency. Emissions shall be tested every three years. Except as specified in II.B.4.b.1.b) below, if unit operations have been suspended when a regularly scheduled stack test is required, emissions shall be tested within 180 days of resuming operation. The source may also be tested at any time if directed by the Executive Secretary.
 - (2) Notification. At least 30 days before the test, the source shall notify the Executive Secretary of the date, time, and place of testing and provide a copy of the test protocol. The source shall attend a pretest conference if determined necessary by the Executive Secretary. The permittee shall notify the Executive Secretary at least 30 days before a regularly scheduled stack test is required, if unit operations have been suspended.
 - (3) Methods.
 - (a) Sample Location - the emission point shall conform to the requirements of 40 CFR 60, Appendix A, Method 1, and Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.
 - (b) For stacks in which no liquid drops are present, the following methods shall be used: 40 CFR 51, Appendix M, Methods 201 or 201a. Method 202 may be used to measure condensible particulate matter.
 - (c) For stacks in which liquid drops are present, methods to eliminate the liquid drops should be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate. The back half condensibles shall also be tested using a method specified by the Executive Secretary. All particulate captured shall be considered PM₁₀.
 - (d) The back half condensibles shall not be used for compliance demonstration but shall be used for inventory purposes.
 - (4) Calculations. To determine mass emission rates (lb/hr, etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary to give the results in the specified units of the emission limitation.
 - (5) Production Rate During Testing. The production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.
- b) Within 150 days of either the final permit issuance date or resumption of unit operation, whichever is later, the permittee shall perform a stack test, as required in a) above, while concurrently monitoring the three indicators below. The permittee shall use the test data to justify the appropriateness of the excursion level for each indicator. Within 180 days of either the final permit issuance date or resumption of unit operation, whichever is later, the permittee shall monitor three indicators as specified below to provide reasonable assurance of compliance with the PM₁₀ emission limitation.
- (1) Measurement Approach:
 - (a) Indicator No. 1: Inlet gas temperature of the electro-dry scrubber shall be measured using a thermocouple.
 - (b) Indicator No. 2: Filter media level shall be monitored with a media sensor.
 - (c) Indicator No. 3: Electrostatic grid voltage shall be measured with a voltmeter.
 - (2) Indicator Range:

Excursions are defined for each of the three indicators as follows. Each excursion triggers an inspection, corrective action, and a reporting requirement.

 - (a) Indicator No. 1: An excursion is defined as an average hourly inlet gas temperature less than 355 degrees F.
 - (b) Indicator No. 2: An excursion is defined as the media sensor not detecting the presence of filter media four times during a one-hour block period.
 - (c) Indicator No. 3: An excursion is defined as an average hourly voltage less than 5,000 volts.

- (3) Performance Criteria:
 - (a) Data Representativeness:
 - 1) Indicator No. 1: A thermocouple shall be installed at the scrubber inlet. The thermocouple shall have a minimum accuracy of +/- 1 percent of range or +/- 3.6 degrees F at 355 degrees F.
 - 2) Indicator No. 2: A filter media sensor shall be installed eight inches from the top of the filter media chamber to detect the presence of filter media.
 - 3) Indicator No. 3: The voltmeter shall measure voltage across the cylindrical grid. The voltmeter shall have a minimum accuracy of +/- 29 volts.
 - (b) QA/QC Practices and Criteria:
 - 1) Indicator No. 1: The thermocouple shall be calibrated according to the manufacturer's instructions or at least annually.
 - 2) Indicator No. 2: The media sensor shall be checked annually with media above and below sensor level to verify it is responding correctly.
 - 3) Indicator No. 3: The voltmeter shall be calibrated according to the manufacturer's instructions or at least annually.
 - (c) Monitoring Frequency:
 - 1) Indicator No. 1: Temperature shall be measured at least four times per hour.
 - 2) Indicator No. 2: Filter media sensor output shall be observed at least four times per hour.
 - 3) Indicator No. 3: Voltage shall be measured at least four times per hour.
 - (d) Data Collection Procedure:
 - 1) Indicator No. 1: The permittee shall collect and record four or more temperature measurements equally spaced over each hour and average the values over a one-hour period for comparison to the indicator range.
 - 2) Indicator No. 2: The permittee shall observe and record filter media sensor output at four equally spaced intervals during each one-hour period for comparison to the indicator range.
 - 3) Indicator No. 3: The permittee shall collect and record four or more voltage measurements equally spaced over each hour and average the values over a one-hour period for comparison to the indicator range.
 - (e) Averaging Period:
 - 1) Indicator No. 1: One-hour block
 - 2) Indicator No. 2: N/A
 - 3) Indicator No. 3: One-hour block
- c) During the stack test required in II.B.4.b.1.a) above, the permittee shall acquire new test data to evaluate or update the excursion values for the three indicators. Any resultant changes to the monitoring shall be addressed in accordance with 40 CFR 64.7(e).

II.B.4.b.2

Recordkeeping:

Results of all stack testing shall be recorded and maintained in accordance with the associated test method and Provision S.1 in Section I of this permit. The permittee shall maintain records of test data from the most recent stack test and any calculations used to evaluate or revise the indicator range and excursion level. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed.

In addition to the recordkeeping requirement described in Provision I.S.1 of this permit, the permittee shall maintain a file of the occurrence and duration of any excursion, corrective actions taken, and any other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Instead of paper records, the permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict

with other applicable recordkeeping requirements. (40 CFR 64.9(b))

II.B.4.b.3

Reporting:

Within 165 days of either the final permit issuance date or resumption of unit operation, whichever is later, the permittee shall submit to the executive secretary the results of the performance test required in II.B.4.b.1.b) and the test data used to justify the appropriateness of the excursion level for each of the three indicators.

In addition to the reporting requirements in Provision I.S.2 of this permit,

- (a) Monitoring reports shall include, at a minimum, the following information, as applicable:
 - (i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken; (40 CFR 64.9(a)(2)(i))
 - (ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). (40 CFR 64.9(a)(2)(ii))
- (b) The results of stack testing required in II.B.4.b.1.a) shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. Reports shall include test data and any calculations used to evaluate or revise the indicator range and excursion level.

II.B.4.c

Condition:

Emissions of NO_x shall be no greater than 75.00 lbs/hour and no greater than 650.00 ppm. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.4.c.1

Monitoring:

Stack testing shall be performed as specified below:

- (a) Frequency. Emissions shall be tested every three years. If unit operations have been suspended when a regularly scheduled stack test is required, emissions shall be tested within 180 days of resuming operation. The source may also be tested at any time if directed by the Executive Secretary.
- (b) Notification. At least 30 days before the test, the source shall notify the Executive Secretary of the date, time, and place of testing and provide a copy of the test protocol. The source shall attend a pretest conference if determined necessary by the Executive Secretary. The permittee shall notify the Executive Secretary at least 30 days before a regularly scheduled stack test is required, if unit operations have been suspended.
- (c) Methods.
 - (1) Sample Location - the emission point shall conform to the requirements of 40 CFR 60, Appendix A, Method 1, and Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.
 - (2) 40 CFR 60, Appendix A, Method 7, 7A, 7B, 7C, 7D, or 7E shall be used to determine the pollutant emission rate.
 - (3) 40 CFR 60, Appendix A, Method 2 shall be used to determine the volumetric flow rate.
- (d) Calculations. To determine mass emission rates (lb/hr, etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary to give the results in the specified units of the emission limitation.
- (e) Production Rate During Testing. The production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

- II.B.4.c.2 Recordkeeping:**
- Results of all stack testing shall be recorded and maintained in accordance with the associated test method. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.
- II.B.4.c.3 Reporting:**
- The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. There are no additional reporting requirements for this provision except those specified in Section I of this permit.
- II.B.4.d Condition:**
- Production of quicklime shall be no greater than 12.5 tons per hour annual average and no greater than 100,000 tons per rolling 12 month total. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]
- II.B.4.d.1 Monitoring:**
- For the annual production limit, within the first 25 days of each month, a 12-month rolling total shall be determined using records from the previous 12 months. For the hourly limitation, within the first 25 days of each month, the recorded production value shall be divided by the operating hours for the previous 12 months and compared to the limitation. The production and operating hours shall be recorded on a daily basis for all periods of operation.
- II.B.4.d.2 Recordkeeping:**
- Records of production and operating hours shall be kept on a daily basis in accordance with Provision I.S.1 of this permit, for all periods of operation.
- II.B.4.d.3 Reporting:**
- There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.4.e Condition:**
- The concentration of contaminants or parameters in any used oil fuel burned in the Kiln shall not exceed the following levels:
Arsenic 5 ppm by weight,
Cadmium 2 ppm by weight,
Chromium 10 ppm by weight,
Lead 100 ppm by weight,
Total Halogens 1,000 ppm by weight,
Sulfur 0.5 percent by weight, and
Flash Point not less than 100 degrees F.
Used oil exceeding any of the above contaminants shall not be burned until the permittee has submitted and received approval of a modeling analysis of the projected emissions for each contaminant, from the Executive Secretary. The modeling analysis shall show in each case that the resulting concentration of contaminant in the ambient air does not exceed the TLV/100 value for the given contaminant. Any used oil fuel that contains more than 1,000 ppm by weight of total halogens shall be considered a hazardous waste and shall not be burned in the kiln. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.4.e.1 **Monitoring:**

The permittee shall maintain test certification data for each load of used oil fuel received. Certification shall be either by permittee testing or test reports provided by the used oil fuel vendor. The used oil fuel shall be tested for halogen content by ASTM Method D-808-81, EPA Method 8240 or Method 8260 before used oil fuel is transferred to a holding tank or burned.

II.B.4.e.2 **Recordkeeping:**

Records of used oil fuel consumption and the test reports shall be kept for all periods when the plant is in operation.

II.B.4.e.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.5 **Conditions on 20-3, HBH-1HY: Hydrator**

II.B.5.a **Condition:**

Emissions of TSP shall be no greater than 1.65 lbs/hour and no greater than 0.075 grain/dscf. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.5.a.1 **Monitoring:**

Stack testing shall be performed as specified below:

- (a) Frequency. Emissions shall be tested every three years. If unit operations have been suspended when a regularly scheduled stack test is required, emissions shall be tested within 180 days of resuming operation. Tests may also be required at the direction of the Executive Secretary.
- (b) Notification. At least 30 days before the test, the source shall notify the Executive Secretary of the date, time, and place of testing and provide a copy of the test protocol. The source shall attend a pretest conference if determined necessary by the Executive Secretary. The permittee shall notify the Executive Secretary at least 30 days before a regularly scheduled stack test is required, if unit operations have been suspended.
- (c) Methods.
 - (1) Sample Location - the emission point shall conform to the requirements of 40 CFR 60, Appendix A, Method 1, and Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.
 - (2) Sample Method - 40 CFR 60, Appendix A, Method 5 shall be used to determine the particulate matter concentration.
- (d) Calculations. To determine mass emission rates (lb./hr., etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary to give the results in the specified units of the emission limitation.
- (e) Production Rate During Testing. The production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

II.B.5.a.2 **Recordkeeping:**

Results of all stack testing shall be recorded and maintained in accordance with the associated test method. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.5.a.3

Reporting:

The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. There are no additional reporting requirements for this provision except those specified in Section I of this permit.

II.B.5.b

Condition:

Emissions of PM₁₀ shall be no greater than 1.32 lbs/hour and no greater than 0.060 grain/dscf. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.5.b.1

Monitoring:

Stack testing shall be performed as specified below:

- (a) Frequency. Emissions shall be tested every three years. If unit operations have been suspended when a regularly scheduled stack test is required, emissions shall be tested within 180 days of resuming operation. The source may also be tested at any time if directed by the Executive Secretary.
- (b) Notification. At least 30 days before the test, the source shall notify the Executive Secretary of the date, time, and place of testing and provide a copy of the test protocol. The source shall attend a pretest conference if determined necessary by the Executive Secretary. The permittee shall notify the Executive Secretary at least 30 days before a regularly scheduled stack test is required, if unit operations have been suspended.
- (c) Methods.
 - (1) Sample Location - the emission point shall conform to the requirements of 40 CFR 60, Appendix A, Method 1, and Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.
 - (2) For stacks in which no liquid drops are present, the following methods shall be used: 40 CFR 51, Appendix M, Methods 201 or 201a. Method 202 may be used to measure condensible particulate matter.
 - (3) For stacks in which liquid drops are present, methods to eliminate the liquid drops should be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate. The back half condensibles shall also be tested using a method specified by the Executive Secretary. All particulate captured shall be considered PM₁₀.
 - (4) The back half condensibles shall not be used for compliance demonstration but shall be used for inventory purposes.
- (d) Calculations. To determine mass emission rates (lb/hr, etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary to give the results in the specified units of the emission limitation.
- (e) Production Rate During Testing. The production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

II.B.5.b.2

Recordkeeping:

Results of all stack testing shall be recorded and maintained in accordance with the associated test method. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.5.b.3

Reporting:

The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. There are no additional reporting requirements for this provision except those specified in Section I of this permit.

II.B.5.c

Condition:

Production of hydrate shall be no greater than 126,000 tons per rolling 12 month total. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.5.c.1

Monitoring:

Within the first 25 days of each month, a 12-month rolling total shall be determined using records from the previous 12 months. Production shall be recorded on a daily basis for all periods of operation.

II.B.5.c.2

Recordkeeping:

Records of production shall be kept on a daily basis in accordance with Provision I.S.1 of this permit, for all periods of operation.

II.B.5.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.5.d

Condition:

Differential pressure across the fabric filter of the baghouse shall be maintained between 0.5 inches to 6.0 inches water gauge. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.5.d.1

Monitoring:

Baghouse pressure drop shall be monitored daily with a manometer or magnahelic pressure gauge when the baghouse is operating. If the pressure differential is outside the range, then the cause shall be investigated and corrective measures taken within two hours of discovering the exceedance, to restore the pressure differential to within the range. The pressure gage shall be located such that an inspector /operator can safely read the indicator at any time. The reading shall be accurate to within plus or minus 6.0% of the reading. The instrument shall be calibrated against a primary standard annually. If operation of the affected emission unit has been suspended, monitoring is not required.

II.B.5.d.2

Recordkeeping:

Results of pressure drop readings shall be recorded. Records shall be maintained of any excursions from the given range, the corrective action taken to restore the pressure differential to within the range, and the time intervals involved. If operation of the affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.5.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.6

Conditions on Opacity-10: 10 Percent Opacity Units

II.B.6.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.6.a.1

Monitoring:

An opacity observation shall be conducted from each of the pre-determined observation locations (A, B, or C) on a monthly basis in accordance with 40 CFR 60, Appendix A, Method 9 on the emission unit of this defined group of units, that appears to have the highest opacity. If the highest unit does not exceed the opacity limitation, no further observations of any of the other emission units of this group will be required. If this unit exceeds the opacity limitation, the emission unit with the next highest opacity shall be observed until an emission unit of this group does not exceed the opacity limitation. All emission units not observed shall be considered to not exceed the opacity limitation. If operation of an affected emission unit has been suspended, monitoring is not required.

II.B.6.a.2

Recordkeeping:

The permittee shall record the date of each visual opacity survey and keep a list of the emission points checked during the visual opacity survey. The permittee shall also keep a log of the following information for each observed visual emission: date and time visual emissions observed, emission point location and description, time and date of opacity test, and percent opacity. Records shall be kept of all data required by 40 CFR 60, Appendix A, Method 9. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.6.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7

Conditions on Opacity-20: 20 Percent Opacity Units

II.B.7.a

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.7.a.1

Monitoring:

An opacity observation shall be conducted from each of the pre-determined observation locations (A, B, or C) on a monthly basis in accordance with 40 CFR 60, Appendix A, Method 9 on the emission unit of this defined group of units, that appears to have the highest opacity. If the highest unit does not exceed the opacity limitation, no further observations of any of the other emission units of this group will be required. If this unit exceeds the opacity limitation, the emission unit with the next highest opacity shall be observed until an emission unit of this group does not exceed the opacity limitation. All emission units not observed shall be considered to not

exceed the opacity limitation. If operation of an affected emission unit has been suspended, monitoring is not required.

II.B.7.a.2 **Recordkeeping:**

The permittee shall record the date of each visual opacity survey and keep a list of the emission points checked during the visual opacity survey. The permittee shall also keep a log of the following information for each observed visual emission: date and time visual emissions observed, emission point location and description, time and date of opacity test, and percent opacity. Records shall be kept of all data required by 40 CFR 60, Appendix A, Method 9. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.7.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.8 **Conditions on Opacity-40: 40 Percent Opacity Units**

II.B.8.a **Condition:**

Visible emissions shall be no greater than 40 percent opacity. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.8.a.1 **Monitoring:**

An opacity observation shall be conducted from each of the pre-determined observation locations (A, B, or C) on a monthly basis in accordance with 40 CFR 60, Appendix A, Method 9 on the emission unit of this defined group of units, that appears to have the highest opacity. If the highest unit does not exceed the opacity limitation, no further observations of any of the other emission units of this group will be required. If this unit exceeds the opacity limitation, the emission unit with the next highest opacity shall be observed until an emission unit of this group does not exceed the opacity limitation. All emission units not observed shall be considered to not exceed the opacity limitation. If operation of an affected emission unit has been suspended, monitoring is not required.

II.B.8.a.2 **Recordkeeping:**

The permittee shall record the date of each visual opacity survey and keep a list of the emission points checked during the visual opacity survey. The permittee shall also keep a log of the following information for each observed visual emission: date and time visual emissions observed, emission point location and description, time and date of opacity test, and percent opacity. Records shall be kept of all data required by 40 CFR 60, Appendix A, Method 9. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.8.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.9 **Conditions on Opacity-40-FE: 40 Percent Opacity Units Not Otherwise Assigned**

II.B.9.a **Condition:**

Fugitive emissions from sources which were constructed on or before April 25, 1971, shall not exceed 40% opacity. [Origin: R307-205-4, DAQE-AN0707015-06] [R307-205-4, R307-401-8(1)(a)(BACT)]

II.B.9.a.1 **Monitoring:**

An opacity observation shall be conducted from each of the pre-determined observation locations (A or B) on a monthly basis in accordance with 40 CFR 60, Appendix A, Method 9 on the emission unit of this defined group of units, that appears to have the highest opacity. If the highest unit does not exceed the opacity limitation, no further observations of any of the other emission units of this group will be required. If this unit exceeds the opacity limitation, the emission unit with the next highest opacity shall be observed until an emission unit of this group does not exceed the opacity limitation. All emission units not observed shall be considered to not exceed the opacity limitation. If operation of an affected emission unit has been suspended, monitoring is not required.

II.B.9.a.2 **Recordkeeping:**

The permittee shall record the date of each visual opacity survey and keep a list of the emission points checked during the visual opacity survey. The permittee shall also keep a log of the following information for each observed visual emission: date and time visual emissions observed, emission point location and description, time and date of opacity test, and percent opacity. Records shall be kept of all data required by 40 CFR 60, Appendix A, Method 9. If operation of an affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.9.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.10 **Conditions on 10-5, DC-10FF: Baghouse #10**

II.B.10.a **Condition:**

Differential pressure across the fabric filter of the baghouse shall be maintained between 0.5 inches to 6.0 inches water gauge. [Origin: DAQE-AN0707015-06] [R307-401-8(1)(a)(BACT)]

II.B.10.a.1 **Monitoring:**

Baghouse pressure drop shall be monitored daily with a manometer or magnahelic pressure gauge when the baghouse is operating. If the pressure differential is outside the range, then the cause shall be investigated and corrective measures taken within two hours of discovering the exceedance, to restore the pressure differential to within the range. The pressure gage shall be located such that an inspector /operator can safely read the indicator at any time. The reading shall be accurate to within plus or minus 6.0% of the reading. The instrument shall be calibrated against a primary standard annually. If operation of the affected emission unit has been suspended, monitoring is not required.

II.B.10.a.2 **Recordkeeping:**

Results of pressure drop readings shall be recorded. Records shall be maintained of any

excursions from the given range, the corrective action taken to restore the pressure differential to within the range, and the time intervals involved. If operation of the affected emission unit has been suspended, the permittee shall record in a log the date operations are suspended and the date operations are resumed. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.10.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.C

Emissions Trading

(R307-415-6a(10))

Not applicable to this source.

II.D

Alternative Operating Scenarios.

(R307-415-6a(9))

Not applicable to this source.

SECTION III: PERMIT SHIELD

The following requirements have been determined to be not applicable to this source in accordance with Provision I.M, Permit Shield:

III.A. 40 CFR 60, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels)

This regulation is not applicable to the TANKS: Petroleum Storage Tanks for the following reason(s): The 42,000 gallon fuel oil tank was constructed prior to the applicable date of July 23, 1984. The other four tanks are each below the tank size threshold of 10,566 gallons. [Last updated April 16, 2009]

SECTION IV: ACID RAIN PROVISIONS

This source is not subject to Title IV. This section is not applicable.

REVIEWER COMMENTS

This operating permit incorporates all applicable requirements contained in the following documents:

Incorporates	DAQE-AN0707015-06 dated August 14, 2006
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1. Comment on an item originating in 40 CFR 63.7142 regarding Permitted Source
Subpart AAAAA-National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants: Subpart AAAAA is not applicable to the permitted source because it is an area source of hazardous air pollutants. The testing required by 40 CFR 63.7142 to claim area source status was conducted on May 10, 2006. The permittee submitted a copy of the test report in a letter dated July 7, 2006 and received by DAQ on July 10, 2006. [Last updated April 16, 2009]

2. Comment on an item originating in this permit regarding Permitted Source
Suspension of Plant Operations: The permittee has temporarily suspended operations at the Grantsville plant as of December 12, 2008. Since the permittee plans to resume operations when market conditions allow, the renewal operating permit contains new language to clarify monitoring. Dates of suspension and resumption of operation for each affected emission unit will be recorded in a log, as specified in Section II of the permit.

If operation of an emission unit has been suspended, the permittee may only operate the unit in order to maintain it in good mechanical condition and to perform any required maintenance. Suspended units are not operated with any process material.

During periods of suspended operation, traffic on the road system consists of security and maintenance personnel traveling to various locations within the plant. [Last updated April 16, 2009]

3. Comment on an item originating in DAQE-AN0707015-06, condition 19 regarding 20-1, DS1RK: Rotary Kiln
AO condition satisfied by unit description: The referenced approval order states that the kiln shall burn only natural gas, fuel oil, on-site or off-site generated on-specification used oil fuel, and tire derived fuel (TDF). Any other fuel burned in the kiln would require a new AO. The unit description for the kiln contains the language that only the fuels listed above shall be burned, and therefore an individual limit within the permit is not necessary. [8/15/2006] [Last updated April 16, 2009]

4. Comment on an item originating in 40 CFR 64 regarding 20-1, DS1RK: Rotary Kiln
Compliance Assurance Monitoring (CAM) applicability: CAM applies to the Rotary Kiln (20-1, DS1RK) and has been included in the renewal permit under condition II.B.4.b. A stack test is required to provide data justifying the chosen excursion levels. The indicators and excursion levels described in this permit are based on the permittee's typical operating data, manufacturer's recommendations, operator's manual, and EPA's CAM Technical Guidance Document. CAM Example A.11, Table A.11-1, and Section B.10 from the CAM Technical Guidance Document were used as a reference for the indicators. [Last updated April 30, 2009]

5. Comment on an item originating in DAQE-AN0707015-06 regarding Opacity-10: 10 Percent Opacity Units
Opacity observation locations: The opacity surveys shall be conducted from pre-determined observation points. Currently, survey point A is located at the upper end of the

quarry road, survey point B is located between bins 5 and 6, and survey point C used to survey haul roads shall be randomly selected based on the activities taking place at the time of the survey. [8/15/2006] [Last updated April 16, 2009]

6. Comment on an item originating in DAQE-AN0707015-06 regarding Opacity-20: 20 Percent Opacity Units

Opacity observation locations: The opacity surveys shall be conducted from pre-determined observation points. Currently, survey point A is located at the upper end of the quarry road, survey point B is located between bins 5 and 6, and survey point C used to survey haul roads shall be randomly selected based on the activities taking place at the time of the survey. [8/15/2006] [Last updated April 16, 2009]

7. Comment on an item originating in DAQE-AN0707015-06 regarding Opacity-40: 40 Percent Opacity Units

Opacity observation locations: The opacity surveys shall be conducted from pre-determined observation points. Currently, survey point A is located at the upper end of the quarry road, survey point B is located between bins 5 and 6, and survey point C used to survey haul roads shall be randomly selected based on the activities taking place at the time of the survey. [8/15/2006] [Last updated April 16, 2009]

8. Comment on an item originating in 40 CFR 60.110b(a), Subpart Kb regarding TANKS: Petroleum Storage Tanks

Petroleum storage tanks not subject to NSPS Subpart Kb: The 42,000 gallon fuel oil tank is not subject to NSPS, Subpart Kb due to being constructed prior to the applicable date of July 23, 1984. The other four tanks are not subject to NSPS, Subpart Kb due to each tank being below the tank size threshold of 10,566 gallons. [7/10/2000] [Last updated April 16, 2009]