



*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

TO: Interested Parties / Applicant  
DATE: June 7, 2007  
RE: Carmeuse Lime, Inc. / 089-23750-00112  
FROM: Nisha Sizemore  
Chief, Permits Branch  
Office of Air Quality

### **Notice of Decision: Approval – Effective Immediately**

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this permit modification is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

---

*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
(317) 232-8603  
(800) 451-6027  
[www.IN.gov/idem](http://www.IN.gov/idem)

Mr. Randall Boisvert  
3245 East 103rd Street  
Chicago, Illinois, 60617

June 7, 2007

Re: 089-23750-00112  
Second Significant Permit Modification to:  
Part 70 permit No.: T089-6140-00112

Dear Mr. Boisvert:

Carmeuse Lime, Inc. was issued Part 70 operating permit T089-6140-00112 on June 29, 2004 for a stationary lime manufacturing plant. A letter requesting changes to this permit was received on October 11, 2006. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of adding the requirements of the National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants (40 CFR 63, Subpart AAAAA) to the source's permit and updating the emission units descriptions. Other conditions in the permit will be updated to reflect changes in the applicable Indiana statutes since the source's Title V permit was issued on June 29, 2004. Please find attached a copy of the revised permit.

Pursuant to Contract No. A305-5-65, IDEM, OAQ has assigned the processing of this application to Eastern Research Group, Inc., (ERG). Therefore, questions should be directed to Mr. Stephen Treimel, ERG, 1600 Perimeter Park Drive, Morrisville, North Carolina 27560, or call (919) 468-7902 to speak directly to Mr. Treimel. Questions may also be directed to Duane Van Laningham at IDEM, OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204-2251, or call (800) 451-6027, and ask for Duane Van Laningham or extension 3-6878, or dial (317) 233-6878.

Original Signed By:

Nisha Sizemore, Chief  
Permits Branch  
Office of Air Quality

Attachments

ERG/ST

cc: File - Lake County  
U.S. EPA, Region V  
Lake County Health Department  
Gary Department of Environmental Affairs  
Northwest Regional Office  
Air Compliance Section Inspector - Rick Massoels  
Compliance Data Section  
Administrative and Development  
Technical Support and Modeling - Michele Boner



Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

**PART 70 OPERATING PERMIT  
OFFICE OF AIR QUALITY  
and the  
Gary Department of Environmental Affairs**

**Carmeuse Lime, Inc.  
1 North Carmeuse Drive  
Gary, Indiana 46402**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

**The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the 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. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B, Emergency Provisions.**

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain New Source Review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Operation Permit No.: T089-6140-00112	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: June 29, 2004 Expiration Date: June 29, 2009
First Administrative Amendment No.: 089-20318-00112, issued February 28, 2006 First Significant Permit Modification No. 089-23753-00112, issued March 14, 2007	
Second Significant Permit Modification No. 089-23750-00112	Pages Affected: Entire Permit
Original Signed By:  Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: June 7, 2007 Expiration Date: June 29, 2009

## TABLE OF CONTENTS

<b>A</b>	<b>SOURCE SUMMARY</b> .....	<b>5</b>
A.1	General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]	
A.3	Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] 326 IAC 2-7-5(15)]	
A.4	Part 70 Permit Applicability [326 IAC 2-7-2]	
<b>B</b>	<b>GENERAL CONDITIONS</b> .....	<b>9</b>
B.1	Definitions [326 IAC 2-7-1]	
B.2	Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]	
B.3	Term of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-7-7]	
B.5	Severability [326 IAC 2-7-5(5)]	
B.6	Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]	
B.7	Duty to Provide Information [326 IAC 2-7-5(6)(E)]	
B.8	Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]	
B.9	Annual Compliance Certification [326 IAC 2-7-6(5)]	
B.10	Preventive Maintenance Plan [326 IAC 2-7-5(1),(3)and (13)][326 IAC 2-7-6(1)and(6)] [326 IAC 1-6-3]	
B.11	Emergency Provisions [326 IAC 2-7-16]	
B.12	Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]	
B.13	Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]	
B.14	Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]	
B.15	Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]	
B.16	Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]	
B.17	Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4] [326 IAC 2-7-8(e)]	
B.18	Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12][40 CFR 72]	
B.19	Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]	
B.20	Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]	
B.21	Source Modification Requirement [326 IAC 2-7-10.5]	
B.22	Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]	
B.23	Transfer of Ownership or Operational Control [326 IAC 2-7-11]	
B.24	Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]	
B.25	Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]	
<b>C</b>	<b>SOURCE OPERATION CONDITIONS</b> .....	<b>20</b>
	<b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b>	
C.1	Opacity [326 IAC 5-1]	
C.2	Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.3	Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.4	Fugitive Dust Emissions [326 IAC 6-4]	
C.5	Fugitive Dust Emissions [326 IAC 6.8-10-3] [326 IAC 6.8-11]	
C.6	Stack Height [326 IAC 1-7]	
C.7	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
	<b>Testing Requirements [326 IAC 2-7-6(1)]</b>	
C.8	Performance Testing [326 IAC 3-6]	

## TABLE OF CONTENTS (Continued)

### **Compliance Requirements [326 IAC 2-1.1-11]**

C.9 Compliance Requirements [326 IAC 2-1.1-11]

### **Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]**

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

C.11 Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]

C.12 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

### **Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]**

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]  
[326 IAC 2-7-6]

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)]  
[326 IAC 2-6]

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6][326 IAC 2-2]  
[326 IAC 2-3]

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]  
[326 IAC 2-3]

### **Stratospheric Ozone Protection**

C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

## **D.1 FACILITY OPERATION CONDITIONS ..... 30**

### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

D.1.1 Lake County PM<sub>10</sub> Emission Requirements [326 IAC 6.8-2-22] [326 IAC 6.8-8]

D.1.2 Lake County SO<sub>2</sub> Emission Limitations [326 IAC 7-4.1-6]

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-7]

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

### **Compliance Determination Requirements**

D.1.5 Particulate Control

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

D.1.7 SO<sub>2</sub> Emissions [326 IAC 7-4.1-2] [326 IAC 3-7][326 IAC 2-7-6]

### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

D.1.8 Opacity Monitoring/ Visible Emission Monitoring [326 IAC 6.8-8-5]

D.1.9 Monitoring for Baghouses

D.1.10 Baghouse Inspections [326 IAC 6.8-8-7]

D.1.11 Broken or Failed Bag Detection

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

D.1.12 Record Keeping Requirements

D.1.13 Reporting Requirements

## **D.2 FACILITY OPERATION CONDITIONS ..... 36**

### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

D.2.1 Prevention of Significant Deterioration (PSD) and Emission Offset (EO) - Particulate [326 IAC 2-2] [326 IAC 2-3]

**TABLE OF CONTENTS (Continued)**

D.2.2 Particulate Matter Emissions [326 IAC 6.8-1-2]  
D.2.3 Lake County PM<sub>10</sub> Emission Requirements [326 IAC 6.8-2-22] [326 IAC 6.8-8]  
D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

**Compliance Determination Requirements**  
D.2.5 Particulate Control  
D.2.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**  
D.2.7 Visible Emissions Notations  
D.2.8 Monitoring for Baghouses  
D.2.9 Baghouse Inspections [326 IAC 6.8-8-7]  
D.2.10 Broken or Failed Bag Detection  
D.2.11 Parametric Monitoring  
D.2.12 Scrubber Malfunction Detection

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**  
D.2.13 Record Keeping Requirements  
D.2.14 Reporting Requirements

**D.3 FACILITY OPERATION CONDITIONS ..... 43**

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**  
D.3.1 Particulate Matter (PM) Emissions [326 IAC 6.8-1-2]  
D.3.2 Lake County Fugitive Particulate Matter Control Requirements [326 IAC 6.8-10-3]  
D.3.3 Fugitive Dust Emissions [326 IAC 6-4]

**Compliance Determination Requirements**  
D.3.4 Particulate Matter (PM)

**Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**  
D.3.5 Record Keeping Requirements  
D.3.6 Reporting Requirements

**E.1 FACILITY OPERATION CONDITIONS ..... 48**

**National Emission Standards for Hazardous Air Pollutants Requirements [326 IAC 2-7-5(1)]**  
E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants [326 IAC 20-1] [40 CFR Part 63, Subpart A]  
E.1.2 National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants Requirements [40 CFR Part 63, Subpart AAAAA] [326 IAC 20-91]  
E.1.3 One Time Deadlines Relating to National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants Requirements [40 CFR Part 63, Subpart AAAAA]

Certification ..... 75  
Emergency Occurrence Report..... 76  
Part 70 Monthly Report ..... 78-83  
Quarterly Report..... 84-85  
Quarterly Deviation and Compliance Monitoring Report ..... 86  
Appendix A: Fugitive Dust Control Plan ..... 88

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

---

The Permittee owns and operates a stationary lime manufacturing plant.

Source Address:	1 North Carmeuse Drive, Gary, Indiana 46402
Mailing Address:	1 North Carmeuse Drive, Gary, Indiana 46402
Source Phone Number:	773-978-5349
SIC Code:	3274
County Location:	Lake
Source Location Status:	Nonattainment for PM <sub>2.5</sub> and 8-hour ozone standards Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD and Emission Offset Rules Major Source under Section 112 of the Clean Air Act 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

---

This stationary source consists of the following emission units and pollution control devices:

#### Lime Production

- (a) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-1; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-1; exhausting to stacks S-1A through S-1F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (b) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-2; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-2; exhausting to stacks S-2A through S-2F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (c) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-3; constructed in 1968; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-3; exhausting to stacks S-3A through S-3F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (d) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-4; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-4; exhausting to stacks S-4A through S-4F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.

- (e) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-5; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-5; exhausting to stacks S-5A through S-5F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.

### **Lime Processing and Handling**

- (f) One (1) Lime Grinder Handling System; identified as EU-15; constructed in 1972; a maximum capacity of 80 tons of lime per hour; emissions controlled by baghouse CE-6 (ALG400); exhausting to stack S-6.
- (g) One (1) Grinding Mill #1; identified as EU-13; constructed in 1972; a maximum capacity of 40 tons of lime per hour; emissions controlled by baghouse CE-8 (ALG450); exhausting to stack S-8.
- (h) One (1) Grinding Mill #2; identified as EU-12; constructed in 1972; a maximum capacity of 40 tons of lime per hour; emissions controlled by baghouse CE-7 (ALG460); exhausting to stack S-7.
- (i) One (1) Pugmill #1; identified as EU-18; constructed in 1985; a maximum capacity of 15.14 tons of lime per hour; emissions controlled by pugmill scrubber CE-19; exhausting to stacks S-19.
- (j) One (1) Pugmill # 2; identified as EU-19; constructed in 1985; a maximum capacity of 15.14 tons of lime per hour; emissions controlled by pugmill scrubber CE-20; exhausting to stack S-20.
- (k) One (1) Lime Handling System #1 (302 Belt); identified as EU-6; constructed in 1972; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-14 (ALG310); exhausting to stack S-14.
- (l) One (1) Lime Handling System #2 (301 Belt); identified as EU-7; constructed in 1966; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-15 (ALG300); exhausting to stack S-15.
- (m) One (1) Lime Transfer System #1, identified as EU-40/41, approved for construction in 2006, with a maximum capacity of 55 tons of lime per hour, consisting of a hopper, piping and storage tank T4, for transporting lime using high pressure pneumatic conveyance methods, with emissions controlled by bin vent filters, and exhausting to stacks S-40 (ALG-490) and S-41 (ALG-430), respectively.
- (n) One (1) Lime Transfer System #2, identified as EU-42/43, approved for construction in 2006, with a maximum capacity of 80 tons of lime per hour, consisting of a hopper, piping and storage tank T1A, for transporting lime using high pressure pneumatic conveyance methods, with emissions controlled by bin vent filters, and exhausting to stacks S-42 (ALG-470) and S-43 (ALG-410), respectively.

### **Lime Storage and Loadout**

- (o) One (1) Lime Storage System; identified as EU-24; constructed prior to 1977; consisting of six lime storage tanks; emissions controlled by baghouse CE-14 (ALG310); exhausting to stack S-14.
- (p) One (1) Lime Storage System; identified as EU-14; constructed prior to 1977; consisting of eight lime storage tanks; emissions controlled by baghouse CE-6 (ALG400); exhausting to stack S-6.

- (q) One (1) Truck & Rail Lime Loadout #3 (Truck Loadout Rail Bay); identified as EU-8; constructed in 1972; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-13; exhausting to stack S-13.
- (r) One (1) Truck Flue Dust Loadout #2; identified as EU-16; constructed in 1966; a maximum capacity of 28 tons of dust per hour; emissions controlled by baghouse CE-9 (AKG450); exhausting to stack S-9.
- (s) One (1) Truck Flue Dust Loadout #1; identified as EU-17; constructed in 1966; a maximum capacity of 32 tons of dust per hour; emissions controlled by baghouse CE-10 (AKG141); exhausting to stack S-10.
- (t) One (1) Rail Lime Loadout #2 (L702); identified as EU-28; constructed in 1972; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-13 (ALG320); exhausting to stack S-13.
- (u) One (1) Truck Loadout Station (Old Side Pulverized and Fines Loadout); identified as EU-11; constructed prior to 1977; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-25 (ALG600); exhausting to stack S-25.
- (v) One (1) Rail Re-Screen Loadout #2 (L602 Re-Screen); identified as EU-25; constructed in 1996; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-25 (ALG600); exhausting to stack S-25.
- (w) One (1) Truck Transfer Station Reclaim Hopper; identified as EU-32; constructed in 1972 and modified in 2003; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-32 (ALG606CA); exhausting to stack S-32.

#### **Raw Material Storage and Handling (Fugitive)**

- (x) One (1) Coal Storage Pile; identified as EU-22; a capacity of greater than 3.5 acres; a source of fugitive emissions.
- (y) Two (2) Limestone Storage Piles; identified as EU-23 and EU-29; each a capacity of greater than 9.5 acres; a source of fugitive emissions.
- (z) Coal Unloading and Processing operations; identified as EU-30; consisting of truck and rail unloading and assorted conveyors; a source of fugitive emissions.
- (aa) Limestone Unloading and Processing operations; identified as EU-31; consisting of barge or boat unloading and assorted conveyors; a source of fugitive emissions.

#### **A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)][326 IAC 2-7-5(15)]**

---

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Vehicular traffic on paved and unpaved roads, and parking lots with public access. [326 IAC 6-4] [326 IAC 6.8-10]
- (b) Activities with emissions equal to or less than the following thresholds: 5 lb/hr or 25 lb/day PM; 5 lb/hr or 25 lb/day SO<sub>2</sub>; 5 lb/hr or 25 lb/day NO<sub>x</sub>; 3 lb/hr or 15 lb/day VOC; 0.6 tons per year Pb; 1.0 ton/yr of a single HAP, or 2.5 ton/yr of any combination of HAPs; Assorted covered limestone conveyors; [326 IAC 6.8-1-2]
- (c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour: Two (2) boilers with heat input capacities of 0.42 and 0.035 MMBtu per hour. [326 IAC 6.8-1-2(b)(3)]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

---

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B GENERAL CONDITIONS

### B.1 Definitions [326 IAC 2-7-1]

---

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2 and 326 IAC 2-7) shall prevail.

### B.2 Permit Term [326 IAC 2-7-5(2)][326 IAC 2-1.1-9.5][326 IAC 2-7-4(a)(1)(D)][IC 13-15-3-6(a)]

---

- (a) This permit, 089-6140-00112, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-3-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ and GDEA, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

---

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-7-7]

---

- (a) Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and GDEA, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.
- (b) Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by GDEA.

### B.5 Severability [326 IAC 2-7-5(5)]

---

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

---

This permit does not convey any property rights of any sort or any exclusive privilege.

### B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

---

- (a) The Permittee shall furnish to IDEM, OAQ and GDEA, within a reasonable time, any information that IDEM, OAQ and GDEA 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. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ and GDEA copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by the "responsible official" of truth, accuracy, and completeness. 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.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) The "responsible official" is defined at 326 IAC 2-7-1(34)

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and GDEA, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

- (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ and GDEA may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)][326 IAC 2-7-6(1) and (6)][326 IAC 1-6-3]**

---

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

The PMP extension notification does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ and GDEA upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ and GDEA. IDEM, OAQ and GDEA may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

**B.11 Emergency Provisions [326 IAC 2-7-16]**

---

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and GDEA and Northwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or

Telephone Number: 317-233-0178 (ask for Compliance Section)

Facsimile Number: 317-233-6865

Gary Department of Environmental Affairs phone: (219) 882-3000; fax: (219) 882-3012

Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267.

and

Northwest Regional Office  
8315 Virginia St., Ste. 1  
Merrillville, Indiana 46410

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.

- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ and GDEA may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ and GDEA by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.12 Permit Shield [326 IAC 2-7-15][326 IAC 2-7-20][326 IAC 2-7-12]

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

This permit shield does not extend to applicable requirements which are promulgated after the date of issuance of this permit unless this permit has been modified to reflect such new requirements.

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, or GDEA shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, or GDEA has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, or GDEA has issued the modification. [326 IAC 2-7-12(b)(8)]

**B.13** Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to 089-6140-00112 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.

**B.14** Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

**B.15** Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination**  
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

---

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ and GDEA determines any of the following:
- (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ and GDEA to reopen and revise this 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. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ and GDEA at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ and GDEA may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

**B.17 Permit Renewal** [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

---

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and GDEA and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

- (b) A timely renewal application is one that is:

- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and GDEA on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ and GDEA takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ and GDEA any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12][40 CFR 72]

- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
  
and  
  
Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402  
  
Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)][326 IAC 2-7-12(b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.20 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

and

United States Environmental Protection Agency, Region V  
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b), (c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ and GDEA in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.21 Source Modification Requirement [326 IAC 2-7-10.5]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2 and/or 326 IAC 2-3 (for sources located in NA areas).

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, and GDEA or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality

100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ and GDEA within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ and GDEA the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

## SECTION C

## SOURCE OPERATION CONDITIONS

<b>Entire Source</b>
----------------------

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### C.1 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

#### C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

#### C.4 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

#### C.5 Fugitive Dust Emissions [326 IAC 6.8-10-3] [326 IAC 6.8-11]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the in plant transportation of material by truck or rail at any time.

- (g) The opacity of fugitive particulate emissions from the in plant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
- (i) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
- (j) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, attached as Appendix A.

C.6 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue

Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**  
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

### **Testing Requirements [326 IAC 2-7-6(1)]**

#### **C.8 Performance Testing [326 IAC 3-6]**

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ and GDEA not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ and GDEA if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### **Compliance Requirements [326 IAC 2-1.1-11]**

#### **C.9 Compliance Requirements [326 IAC 2-1.1-11]**

---

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

### **Compliance Monitoring Requirements [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]**

#### **C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]**

---

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units or emission units added through a source modification shall be implemented when operation begins.

#### **C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

---

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

#### **C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

---

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale

such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.

- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

### **Corrective Actions and Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]**

#### **C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

within 180 days from the date on which this source commences operation.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAQ and GDEA, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ and GDEA that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.  
[326 IAC 1-5-3]

#### **C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]**

If a regulated substance, as defined in 40 CFR 68, is present at a source in more than a threshold quantity, the Permittee must comply with the applicable requirements of 40 CFR 68.

#### **C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]**

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
  - (1) monitoring results;
  - (2) review of operation and maintenance procedures and records; and/or
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
  - (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and GDEA on or before the date it is due.

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2][326 IAC 2-3]

---

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or GDEA makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or GDEA within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a reasonable possibility that a "project" (as defined in 326 IAC 2-2-1(qq)) at an existing emissions unit, other than projects at a Clean Unit (or at a source with Plant-wide Applicability Limitation (PAL)), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee)) may result in significant emissions increase and the Permittee elects to utilize the "projected actual emissions" (as defined in 326 IAC 2-2-1(rr) and/or IAC 2-3-1(mm)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, document and maintain the following records:
    - (A) A description of the project.

- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
  - (i) Baseline actual emissions;
  - (ii) Projected actual emissions;
  - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(iii); and
  - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2][326 IAC 2-3]

---

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and GDEA on or before the date it is due.

- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and GDEA:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1(xx) and/or 326 IAC 2-3-1(qq), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
  - (1) The name, address, and telephone number of the major stationary source.
  - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.
  - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
  - (4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management  
Air Compliance Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
839 Broadway, 2nd Floor NE  
Gary, Indiana 46402

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and GDEA. The general public may request this information from the IDEM, OAQ and GDEA under 326 IAC 17.1.

## **Stratospheric Ozone Protection**

### **C.20 Compliance with 40 CFR 82 and 326 IAC 22-1**

---

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

**SECTION D.1 FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)]:**

**Lime Production**

- (a) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-1; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-1; exhausting to stacks S-1A through S-1F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (b) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-2; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-2; exhausting to stacks S-2A through S-2F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (c) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-3; constructed in 1968; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-3; exhausting to stacks S-3A through S-3F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (d) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-4; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-4; exhausting to stacks S-4A through S-4F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (e) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-5; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-5; exhausting to stacks S-5A through S-5F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**D.1.1 Lake County PM<sub>10</sub> Emission Requirements [326 IAC 6.8-2-22][326 IAC 6.8-8]**

- (a) Pursuant to 326 IAC 6.8-2-22, the facilities listed in the chart below shall not exceed the respective PM<sub>10</sub> emission limits:

Facility (as listed in 326 IAC 6-1-10.1)	Emission Unit ID	Control Device ID	PM <sub>10</sub> Emission Limits	
			(lbs/ton)	(lbs/hr)
Rotary Kiln #1	EU-1	CE-1	0.478	9.950
Rotary Kiln #2	EU-2	CE-2	0.478	9.950
Rotary Kiln #3	EU-3	CE-3	0.478	9.950
Rotary Kiln #4	EU-4	CE-4	0.478	9.950
Rotary Kiln #5	EU-5	CE-5	0.478	9.950

- (b) Pursuant to 326 IAC 6.8-8, the Permittee shall implement the maintenance and inspection practices outlined in the Continuous Compliance Plan (CCP), dated March 1997.

D.1.2 Lake County SO<sub>2</sub> Emission Limitations [326 IAC 7-4.1-6]

- (a) Pursuant to 326 IAC 7-4.1-6, Carmeuse Lime shall comply with the sulfur dioxide emission limits for Rotary Kilns 1 through 5 as follows:
- (1) When three (3) or fewer kilns are in operation at the same time, the sulfur dioxide emissions are not to exceed:
    - (A) two and ninety-four thousandths (2.094) pounds per ton of lime based on a one (1) hour average; and
    - (B) forty-eight (48) pounds per hour per operating kiln.
  - (2) When four (4) kilns are in operation at the same time, the sulfur dioxide emissions are not to exceed:
    - (A) one and seven hundred forty-five thousandths (1.745) pounds per ton of lime based on a one (1) hour average; and
    - (B) forty (40) pounds per hour per operating kiln.
  - (3) When five (5) kilns are in operation at the same time, the sulfur dioxide emissions are not to exceed:
    - (A) one and four hundred eighty-three thousandths (1.483) pounds per ton of lime based on a one (1) hour average; and
    - (B) thirty-four (34) pounds per hour per operating kiln.
  - (4) The production of lime is not to exceed five hundred fifty (550) tons per day for each rotary kiln.
- (b) Sulfur dioxide emissions shall be vented from the kilns/kiln gas filter systems at the following heights above grade:
- (1) For Kiln No. 1, a stack height of seventy-nine and one-tenth (79.1) feet.
  - (2) For Kiln No. 2, a stack height of eighty-five and nine-tenths (85.9) feet.
  - (3) For Kiln No. 3, a stack height of eighty-six and zero-tenths (86.0) feet.
  - (4) For Kiln No. 4, a stack height of ninety-four and four-tenths (94.4) feet.
  - (5) For Kiln No. 5, a stack height of eighty-seven and four-tenths (87.4) feet.

D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-7]

The total amount of lime produced from rotary kilns EU-1 through EU-5 shall not exceed 999,990 tons per twelve consecutive month period with compliance determined at the end of each month. The VOC emissions from each kiln shall not exceed 0.05 pounds per ton of lime produced.

Compliance with these limits is equivalent to source-wide VOC emissions of less than 25 tons per year and will render the requirements of 326 IAC 8-7 not applicable.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

**Compliance Determination Requirements**

D.1.5 Particulate Control

- (a) In order to comply with Condition D.1.1, the baghouses for particulate control shall be in operation and control particulate emissions from kilns EU-1 through EU-5 at all times those respective facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units

will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

- (a) No later than 12 months following the issuance of this Part 70 permit, the Permittee shall perform PM<sub>10</sub> and SO<sub>2</sub> testing on kilns EU-1 and EU-2 utilizing methods approved by the Commissioner. This testing is required in order to demonstrate compliance with 326 IAC 6.8-2-22 and 326 IAC 7-4.1-6. These tests shall be repeated at least once every 2.5 years from the date of valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.
- (b) No later than 30 months after the issuance of this Part 70 permit, the Permittee shall perform PM<sub>10</sub> and SO<sub>2</sub> testing on kilns EU-3, EU-4, and EU-5 utilizing methods approved by the Commissioner. These tests are required in order to demonstrate compliance with 326 IAC 6.8-2-22 and 326 IAC 7-4.1-6 and shall be repeated at least once every 2.5 years from the date of valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.
- (c) No later than 30 months following the issuance of this Part 70 permit, the Permittee shall perform VOC testing on each kiln (EU-1 through EU-5) utilizing methods approved by the Commissioner. These tests are required in order to ensure that the requirements of 326 IAC 8-7 do not apply and shall be repeated at least once every five years from the date of valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

D.1.7 SO<sub>2</sub> Emissions [326 IAC 7-4.1-2][326 IAC 3-7][326 IAC 2-7-6]

Pursuant to 326 IAC 7-4.1-2 and 326 IAC 2-7-6, the Permittee shall demonstrate compliance with the SO<sub>2</sub> limits in Condition D.1.2 using one of the following options:

- (a) Mass Balance Calculations and Sampling and Analysis.
  - (1) Both limestone and coal are purchased under contract, and each contract contains specifications for sulfur content. Each shipment is sampled and analyzed by an independent laboratory, utilizing American Society for Testing and Materials (ASTM) standards for sampling and chemical analyzes. The analysis is provided for each 25,000-ton limestone shipment, and each 10,000-ton coal shipment. Note that each limestone shipment represents approximately five (5) days of feed, and the coal shipment represents approximately 14 days of fuel. The certified analyses shall be the source of the data of the sulfur content in both the limestone and coal. The Permittee shall calculate the hourly SO<sub>2</sub> emission rate using the total sulfur content and consumption rates of limestone and coal. In the event that a shipment of limestone or coal has been received which does not meet the specifications, steps shall be taken to correct the situation prior to the use of the material.
    - (A) The coal and limestone sample acquisition points shall be at locations where representative samples of the respective material shipments may be obtained.
    - (B) Minimum sample size shall be in accordance with ASTM specifications for representative samples in the size fraction and quantity delivered.
    - (C) Samples shall be composited and analyzed in accordance with ASTM specifications.
    - (D) Preparation of the coal sample and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), and (e).

- (E) The limestone and coal utilized shall be reconciled monthly by means of the weigh slips and shipping documents.
- (2) The Permittee shall calculate the amount of bound sulfur, in pounds per hour, exiting the kiln by performing calculations for weight and sulfur content of the lime and flue dust.
- (A) The weight of lime produced by each kiln shall be determined by either using a lime scale belt or by determining the cumulative weight of limestone fed to the kiln using the following relationships:
- One (1.0) ton of lime is produced for each two and one-tenth (2.1) tons of high calcium limestone; and
- One (1.0) ton of lime is produced for each two and twenty-seven hundredths (2.27) tons of dolomitic limestone.
- (B) The weight of flue dust captured shall be determined by weigh slips from shipments and inventory balances, and reconciled monthly.
- (C) The lime and flue dust sample acquisition points shall be at locations where representative samples of the total flow exiting the kilns may be obtained.
- (D) Lime shall be sampled in accordance with ISO 9000 standards for shipments to customers.
- (E) Samples shall be composited and analyzed in accordance with ISO 9000 standards, and at a frequency which will be representative of the materials utilized and produced from the raw materials.
- (3) The Permittee shall determine the calendar month average SO<sub>2</sub> emissions from each kiln by the following mass balance calculation using the input values determined in (1) and (2) above:

$$\text{SO}_2 \text{ Emissions} = [(\%S_{\text{limestone}} \times \text{Monthly Usage}_{\text{limestone}}) + (\%S_{\text{coal}} \times \text{Monthly Usage}_{\text{coal}}) - (\%S_{\text{lime}} \times \text{Monthly Production}_{\text{lime}}) - (\%S_{\text{fluedust}} \times \text{Monthly Production}_{\text{fluedust}})] \times 2$$

Where the %S values are given in calendar month averages.

- (b) Pursuant to 326 IAC 7-4.1-2(d), compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the kilns, using 40 CFR Part 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6, which is conducted with such frequency as to generate the amount of information required by (a) above. IDEM, OAQ may also require that the Permittee conduct a stack test at any emissions unit within sixty (60) days of written notification by the department.

### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

#### **D.1.8 Opacity Monitoring / Visible Emission Monitoring [326 IAC 6.8-8-5]**

- (a) Pursuant to 326 IAC 6.8-8-5(1), the Permittee shall monitor the opacity of the exhaust from stacks S-1 through S-5 (exhausting emissions from kilns EU-1 through EU-5) during normal operation through self monitoring of opacity (visible emission notations). The opacity monitoring tests shall be performed in accordance with Method 9 of 40 CFR Part 60, Appendix A and shall be performed once per day during normal daylight operations. Readings shall be taken for a minimum of thirty (30) minutes during each day. If opacity readings are greater than seventy-five percent (75%) of the applicable standard, the

Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

- (b) If the Method 9 tests (required in (a) above) can not be performed due to the position of the sun, inclement weather, etc., then the Permittee shall perform visible emission notations of the exhaust from stacks S-1 through S-5 once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C- Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### D.1.9 Monitoring for Baghouses

---

- (a) The Permittee shall record the pressure drop across the baghouses, used in conjunction with kilns EU-1 through EU-5, at least once per day when the respective facilities are in operation.
- (b) When, for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 7.0 inches of water, or a range established during the last stack test the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

#### D.1.10 Baghouse Inspections [326 IAC 6.8-8-7]

---

The Permittee shall perform the baghouse inspections pursuant to the Continuous Compliance Plan (CCP) and 326 IAC 6.8-8-7(1). The inspections shall be performed at least once per calendar quarter. Inspections required by this condition shall be not be performed in consecutive months. All defective bags shall be replaced.

#### D.1.11 Broken or Failed Bag Detection

---

- (a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

## **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

### **D.1.12 Record Keeping Requirements**

---

- (a) To document compliance with Condition D.1.3 the Permittee shall maintain records of the amount of lime produced by kilns EU-1 through EU-5.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records of the sampling and analysis of raw materials, product, and by-products, and the mass balance equations used to demonstrate compliance with Condition D.1.2.
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain a daily record of:
  - (1) All opacity measurements of the lime kiln stack exhausts (S-1 through S-5), evaluations, calibration checks, adjustments, and maintenance performed on the continuous monitoring system; or
  - (2) The once per day visible emission notations of the lime kiln stack exhausts (S-1 through S-5), as required by Condition D.1.8. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of opacity measurement or visible emission notation, (i.e. the process did not operate that day).
- (d) To document compliance with Condition D.1.9, the Permittee shall maintain a daily record of the pressure drop across the baghouses used in conjunction with kilns EU-1 through EU-5, as required by Condition D.1.9. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).
- (e) To document compliance with Condition D.1.10, the Permittee shall maintain records of the results of the inspections.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### **D.1.13 Reporting Requirements**

---

- (a) A quarterly summary of the information to document compliance with Condition D.1.3 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the three (3) month period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) A quarterly summary of the information to document compliance with Condition D.1.7 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the three (3) month period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

#### Lime Processing and Handling

- (f) One (1) Lime Grinder Handling System; identified as EU-15; constructed in 1972; a maximum capacity of 80 tons of lime per hour; emissions controlled by baghouse CE-6 (ALG400); exhausting to stack S-6.
- (g) One (1) Grinding Mill #1; identified as EU-13; constructed in 1972; a maximum capacity of 40 tons of lime per hour; emissions controlled by baghouse CE-8 (ALG450); exhausting to stack S-8.
- (h) One (1) Grinding Mill #2; identified as EU-12; constructed in 1972; a maximum capacity of 40 tons of lime per hour; emissions controlled by baghouse CE-7 (ALG460); exhausting to stack S-7.
- (i) One (1) Pugmill #1; identified as EU-18; constructed in 1985; a maximum capacity of 15.14 tons of lime per hour; emissions controlled by pugmill scrubber CE-19; exhausting to stacks S-19.
- (j) One (1) Pugmill # 2; identified as EU-19; constructed in 1985; a maximum capacity of 15.14 tons of lime per hour; emissions controlled by pugmill scrubber CE-20; exhausting to stack S-20.
- (k) One (1) Lime Handling System #1 (302 Belt); identified as EU-6; constructed in 1972; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-14 (ALG310); exhausting to stack S-14.
- (l) One (1) Lime Handling System #2 (301 Belt); identified as EU-7; constructed in 1966; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-15 (ALG300); exhausting to stack S-15.
- (m) One (1) Lime Transfer System #1, identified as EU-40/41, approved for construction in 2006, with a maximum capacity of 55 tons of lime per hour, consisting of a hopper, piping and storage tank T4, for transporting lime using high pressure pneumatic conveyance methods, with emissions controlled by bin vent filters, and exhausting to stacks S-40 (ALG-490) and S-41 (ALG-430), respectively.
- (n) One (1) Lime Transfer System #2, identified as EU-42/43, approved for construction in 2006, with a maximum capacity of 80 tons of lime per hour, consisting of a hopper, piping and storage tank T1A, for transporting lime using high pressure pneumatic conveyance methods, with emissions controlled by bin vent filters, and exhausting to stacks S-42 (ALG-470) and S-43 (ALG-410), respectively.

#### Lime Storage and Loadout

- (o) One (1) Lime Storage System; identified as EU-24; constructed prior to 1977; consisting of six lime storage tanks; emissions controlled by baghouse CE-14 (ALG310); exhausting to stack S-14.
- (p) One (1) Lime Storage System; identified as EU-14; constructed prior to 1977; consisting of eight lime storage tanks; emissions controlled by baghouse CE-6 (ALG400); exhausting to stack S-6.

- (q) One (1) Truck & Rail Lime Loadout #3 (Truck Loadout Rail Bay); identified as EU-8; constructed in 1972; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-13; exhausting to stack S-13.
- (r) One (1) Truck Flue Dust Loadout #2; identified as EU-16; constructed in 1966; a maximum capacity of 28 tons of dust per hour; emissions controlled by baghouse CE-9 (AKG450); exhausting to stack S-9.
- (s) One (1) Truck Flue Dust Loadout #1; identified as EU-17; constructed in 1966; a maximum capacity of 32 tons of dust per hour; emissions controlled by baghouse CE-10 (AKG141); exhausting to stack S-10.
- (t) One (1) Rail Lime Loadout #2 (L702); identified as EU-28; constructed in 1972; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-13 (ALG320); exhausting to stack S-13.
- (u) One (1) Truck Loadout Station (Old Side Pulverized and Fines Loadout); identified as EU-11; constructed prior to 1977; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-25 (ALG600); exhausting to stack S-25.
- (v) One (1) Rail Re-Screen Loadout #2 (L602 Re-Screen); identified as EU-25; constructed in 1996; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-25 (ALG600); exhausting to stack S-25.
- (w) One (1) Truck Transfer Station Reclaim Hopper; identified as EU-32; constructed in 1972 and modified in 2003; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-32 (ALG606CA); exhausting to stack S-32.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### **Emission Limitations and Standards [326 IAC 2-7-5(1)]**

#### **D.2.1 Prevention of Significant Deterioration (PSD) and Emission Offset (EO) - Particulate [326 IAC 2-2] [326 IAC 2-3]**

- (a) The PM emissions from pugmill EU-18 shall not exceed 0.186 pounds per ton of lime processed.
- (b) The PM emissions from pugmill EU-19 shall not exceed 0.186 pounds per ton of lime processed.
- (c) The total lime processed by pugmills EU-18 and EU-19 (combined) shall not exceed 268,000 tons per twelve consecutive month period with compliance determined at the end of each month.  
  
Compliance with these limits is equivalent to PM emissions of less than 25 tons per year and will render the requirements of 326 IAC 2-2 not applicable.
- (d) The PM/PM10 emissions from Truck Lime Loadout #4 (EU-9) shall not exceed 3.4 pounds per hour and 15 tons per year.  
  
Compliance with this limit will render the requirements of 326 IAC 2-2 and 326 IAC 2-3 not applicable.
- (e) Pursuant to CP 089-5851-00112, issued December 9, 1996, and as revised by this permit, the PM/PM10 emissions from Re-Screen Loadout #2 (EU-25) shall not exceed 3.4 pounds per hour and 15 tons per year.

Compliance with this limit will render the requirements of 326 IAC 2-2 and 326 IAC 2-3 not applicable.

- (f) Pursuant to MSM 089-23502-00112, issued on November 17, 2006, the PM emission rate from the lime transfer system, identified as EU-40, controlled by a bin vent filter and exhausting to stack S-40 (ALG-490), shall not exceed 0.05 pounds per hour.
- (g) Pursuant to MSM 089-23502-00112, issued on November 17, 2006, the PM<sub>10</sub> emission rate from the lime transfer system, identified as EU-40, controlled by a bin vent filter and exhausting to stack S-40 (ALG-490), shall not exceed 0.05 pounds per hour.
- (h) Pursuant to MSM 089-23502-00112, issued on November 17, 2006, the PM emission rate from the lime transfer system, identified as EU-41 controlled by a bin vent filter and exhausting to stack S-41 (ALG-430), shall not exceed 1.27 pounds per hour.
- (i) Pursuant to MSM 089-23502-00112, issued on November 17, 2006, the PM<sub>10</sub> emission rate from the lime transfer system, identified as EU-41, controlled by a bin vent filter and exhausting to stack S-41 (ALG-430), shall not exceed 1.27 pounds per hour.
- (j) Pursuant to MSM 089-23502-00112, issued on November 17, 2006, the PM emission rate from the lime transfer system, identified as EU-42 controlled by a bin vent filter and exhausting to stack S-42 (ALG-470), shall not exceed 0.05 pounds per hour.
- (k) Pursuant to MSM 089-23502-00112, issued on November 17, 2006, the PM<sub>10</sub> emission rate from the lime transfer system, identified as EU-42, controlled by a bin vent filter and exhausting to stack S-42 (ALG-470), shall not exceed 0.05 pounds per hour.
- (l) Pursuant to MSM 089-23502-00112, issued on November 17, 2006, the PM emission rate from the lime transfer system, identified as EU-43 controlled by a bin vent filter and exhausting to stack S-43 (ALG-410), shall not exceed 1.27 pounds per hour.
- (m) Pursuant to MSM 089-23502-00112, issued on November 17, 2006, the PM<sub>10</sub> emission rate from the lime transfer system, identified as EU-43, controlled by a bin vent filter and exhausting to stack S-43 (ALG-410), shall not exceed 1.27 pounds per hour.

Compliance with these emission limits will ensure that the potential to emit from the modification performed under MSM 089-23502-00112, issued on November 17, 2006, is less than twenty-five (25) tons of PM per year and less than fifteen (15) tons of PM<sub>10</sub> per year and therefore will render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) not applicable to this modification.

#### D.2.2 Particulate Matter Emissions [326 IAC 6.8-1-2]

---

Pursuant to 326 IAC 6.8-1-2, the particulate matter emissions from the Truck Lime Loadout #4 (EU-9), Pugmill #1 (EU-18), Pugmill #2 (EU-19), Rail Re-Screen Loadout #2 (EU-25), Lime Transfer Systems (EU-40, EU-41, EU-42, and EU-43), and Truck Transfer Station Reclaim Hopper (EU-32) shall not exceed 0.03 grain per dry standard cubic foot (gr/dscf).

#### D.2.3 Lake County PM<sub>10</sub> Emission Requirements [326 IAC 6.8-2-22][326 IAC 6.8-8]

---

- (a) Pursuant to 326 IAC 6.8-2-22, the facilities listed in the chart below shall not exceed the respective PM<sub>10</sub> emission limits:

Facility (as listed in 326 IAC 6-1-10.1)	Emission Unit(s) ID	Control Device ID	PM <sub>10</sub> Emission Limits	
			(lbs/ton)	(lbs/hr)
Fluedust Loadout #1	EU-17	CE-10	0.003	0.110
Fluedust Loadout #2	EU-16	CE-9	0.003	0.100
Lime Grinder	EU-15 EU-14	CE-6	0.015	0.44
Lime Handling Baghouse #1	EU-6, EU- 24, and EU- 28	CE-14	0.002	0.260
Lime Handling Baghouse #2	EU-7	CE-15	0.002	0.180
Lime Handling Baghouse #3	EU-8	CE-13	0.0004	0.050
Lime Handling Baghouse #4	EU-11	CE-25	0.001	0.13
Lime Loadout Baghouse #1	EU-12	CE-7	0.0004	0.050
Lime Loadout Baghouse #2	EU-13	CE-8	0.0004	0.050

- (b) Pursuant to 326 IAC 6.8-8, the Permittee shall implement the maintenance and inspection practices outlined in the Continuous Compliance Plan (CCP), dated March 1997.

**D.2.4 Preventative Maintenance Plan [326 IAC 2-7-5(13)]**

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

**Compliance Determination Requirements**

**D.2.5 Particulate Control**

- (a) In order to comply with Conditions D.2.1, D.2.2, and D.2.3, the baghouses, scrubbers, and bin vent filters for particulate control shall be in operation and control particulate emissions from all facilities listed in this section at all times those respective facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed unit will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

**D.2.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

- (a) No later than 18 months following the issuance of this Part 70 permit, the Permittee shall perform PM<sub>10</sub> testing on the Grinding Mill #2 (EU-12), Grinding Mill #1 (EU-13), Lime Handling System #1 (EU-6), Lime Storage System (EU-24), Rail Lime Loadout #2 (EU-28), Truck Flue Dust Loadout #2 (EU-16), Truck Flue Dust Loadout #1 (EU-17), and the Truck Loadout Station (EU-11) utilizing methods approved by the Commissioner. These tests are required in order to demonstrate compliance with 326 IAC 6.8-2-22 and shall be repeated at least once every five years from the date of valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.
- (b) No later than 36 months following the issuance of this Part 70 permit, the Permittee shall perform PM<sub>10</sub> testing on the Lime Grinder (EU-15), Lime Storage System (EU-14), Lime

Handling System #2 (EU-7), and the Truck & Rail Lime Loadout #3 (EU-8) utilizing methods approved by the Commissioner. These tests are required in order to demonstrate compliance with 326 IAC 6.8-2-22 and shall be repeated at least once every five years from the date of valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

### **Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

#### **D.2.7 Visible Emissions Notations [40 CFR 64]**

---

- (a) Visible emission notations of the stack exhaust from facilities EU-18, EU-19, EU-25, EU-17, EU-16, EU-15, EU-14, EU-6, EU-24, EU-28, EU-7, EU-8, EU-11, EU-12, EU-13, EU-32, EU-41 and EU-43 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### **D.2.8 Monitoring for Baghouses**

---

- (a) The Permittee shall record the pressure drop across the baghouses, used in conjunction with facilities EU-18, EU-19, EU-25, EU-17, EU-16, EU-15, EU-14, EU-6, EU-24, EU-28, EU-7, EU-8, EU-11, EU-12, EU-13, and EU-32 at least once per day when the respective facilities are in operation.
- (b) When, for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 and 8.0 inches of water, or a range established during the last stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) The instrument used for determining the pressure shall comply with Section C- Instrument Specifications, of this permit, shall be subject to approval by Idem, OAQ, and Shall be calibrated at least once every six months.

#### **D.2.9 Baghouse Inspections [326 IAC 6.8-8-7]**

---

The Permittee shall perform the baghouse inspections pursuant to the CCP and 326 IAC 6.8-8-7. The inspections shall be performed at least once per calendar quarter. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

#### **D.2.10 Broken or Failed Bag Detection**

---

- (a) For a single compartment baghouses controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit have been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows

#### D.2.11 Parametric Monitoring

---

The Permittee shall monitor and record the pressure drop and flow rate of the wet scrubbers (CE-19 and CE-20) controlling the Pugmills (EU-18 and EU-19) at least once per day when the associated process is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 1.5 and 6.5 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. When for any one reading, the flow rate of any of the scrubbers is less than the minimum of 7.0 gallons per minute, or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mention range or a flow rate that is below the above mentioned minimum is not a deviation from this permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

The instruments used for determining the pressure drop and flow rate shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

#### D.2.12 Scrubber Malfunction Detection

---

In the event that a scrubber malfunction has been observed, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### D.2.13 Record Keeping Requirements

---

- a) To document compliance with Condition D.2.1(c), the Permittee shall maintain records of the total amount of lime processed by facilities EU-18 and EU-19.
- (b) To document compliance with Condition D.2.7, the Permittee shall maintain a daily record of the visible emission notations of the stack exhaust from facilities EU-18, EU-19, EU-25, EU-17, EU-16, EU-15, EU-14, EU-6, EU-24, EU-28, EU-7, EU-8, EU-11, EU-12, EU-13, EU-32, EU-41 and EU-43, as required by Condition D.2.7. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (i.e. the process did not operate that day).
- (c) To document compliance with Condition D.2.8, the Permittee shall maintain a daily record of the pressure drop across the baghouses controlling facilities EU-18, EU-19, EU-25, EU-17, EU-16, EU-15, EU-14, EU-6, EU-24, EU-28, EU-7, EU-8, EU-11, EU-12, EU-13, and EU-32, as required by Condition D.2.8. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).
- (d) To document compliance with Condition D.2.9, the Permittee shall maintain records of the

results of the inspections.

- (e) To document compliance with Condition D.2.11, the Permittee shall maintain a daily record of the pressure drop and flow rate of the wet scrubbers (CE-19 and CE-20) controlling the Pugmills (EU-18 and EU-19), as required by Condition D.2.11. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.2.14 Reporting Requirements

---

A quarterly summary of the information to document compliance with Condition D.2.1(c) shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the three (3) month period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

## SECTION D.3

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

#### Raw Material Storage and Handling (Fugitive)

- (x) One (1) Coal Storage Pile; identified as EU-22; a capacity of greater than 3.5 acres; a source of fugitive emissions.
- (y) Two (2) Limestone Storage Piles; identified as EU-23 and EU-29; each a capacity of greater than 9.5 acres; a source of fugitive emissions.
- (z) Coal Unloading and Processing operations; identified as EU-30; consisting of truck and rail unloading and assorted conveyors; a source of fugitive emissions.
- (aa) Limestone Unloading and Processing operations; identified as EU-31; consisting of barge or boat unloading and assorted conveyors; a source of fugitive emissions.

#### Specifically Regulated Insignificant Activities

- (a) Vehicular traffic on paved and unpaved roads, and parking lots with public access. [326 IAC 6-4] [326 IAC 6.8-10]
- (b) Activities with emissions equal to or less than the following thresholds: 5 lb/hr or 25 lb/day PM; 5 lb/hr or 25 lb/day SO<sub>2</sub>; 5 lb/hr or 25 lb/day NO<sub>x</sub>; 3 lb/hr or 15 lb/day VOC; 0.6 tons per year Pb; 1.0 ton/yr of a single HAP, or 2.5 ton/yr of any combination of HAPs: Assorted covered limestone conveyors; [326 IAC 6.8-1-2]
- (c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour: Two (2) boilers with heat input capacities of 0.42 and 0.035 MMBtu per hour. [326 IAC 6.8-1-2(b)(3)]

To the extent that any of the above listed operations, or any part of the above listed operations, are processed stone handling (PSH) operations, as defined in 40 CFR 63.7082(g) and 40 CFR 63.7143, then under 40 CFR Part 63, Subpart AAAAA, these facilities are considered an existing affected facility.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.3.1 Particulate Matter (PM) Emissions [326 IAC 6.8-1-2]

- (a) Pursuant to 326 IAC 6.8-1-2, the PM emissions from EU-22, EU-23, EU-29, EU-30, EU-31, and the insignificant limestone conveyors, shall each not exceed 0.03 grain per dry standard cubic foot (gr/dscf).
- (b) Pursuant to 326 IAC 6.8-1-2(b)(3), the PM emissions from the insignificant boilers shall not exceed 0.01 grain per dry standard cubic foot (gr/dscf).

#### D.3.2 Lake County Fugitive Particulate Matter Emission Limitations [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3:

- (a) For paved roads and parking lots, the average instantaneous opacity of the fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of the fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).

- (c) The average instantaneous opacity of the fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (d) The opacity of the fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of the fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (f) The opacity of the fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (g) There shall be zero percent (0%) frequency of visible emissions observations of a material during the inplant transportation of material by truck or rail at any time.
- (h) The opacity of the fugitive particulate emissions from inplant transportation by front end loaders and skip hoists shall not exceed ten percent (10%).
- (i) The PM10 stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grain per dry standard cubic foot and ten percent (10%) opacity. The opacity of fugitive particulate emissions from a material processing facility, except crusher at which a capture system is not used, shall not exceed ten percent (10%). The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%). There shall be a zero percent (0%) frequency of visible emission observations from a building enclosing all or a part of the material processing equipment except from a vent in the building. The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
- (j) The opacity of the fugitive particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (k) Compliance with the opacity limits specified in Section C (Fugitive Dust Emissions) of this permit shall be achieved by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan (FDCP) attached as Appendix A to this permit. If it is determined that the control procedures specified in the FDCP do not demonstrate compliance with the fugitive emission limitations, IDEM, OAQ may request that the FDCP be revised and submitted for approval.

#### D.3.3 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

### **Compliance Determination Requirements**

#### D.3.4 Particulate Matter (PM)

Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Emission Limitations), opacity from the activities (as applicable) shall be determined as follows:

- (a) **Paved Roads and Parking Lots**  
The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:
  - (1) The first will be taken at the time of emission generation.

- (2) The second will be taken five (5) seconds later.
- (3) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

- (b) **Unpaved Roads and Parking Lots**  
The fugitive particulate emissions from unpaved roads shall be controlled by the implementation of a work program and work practice under the fugitive dust control plan.
- (c) **Batch Transfer**  
The average instantaneous opacity shall consist of the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) batch loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume.
- (d) **Continuous Transfer**  
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9. The opacity readings shall be taken at least four (4) feet from the point of origin.
- (e) **Wind Erosion from Storage Piles**  
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The limitations may not apply during periods when application of fugitive particulate control measures are either ineffective or unreasonable due to sustained very high wind speeds. During such periods, the company must continue to implement all reasonable fugitive particulate control measures and maintain records documenting the application of measures and the basis for a claim that meeting the opacity limitation was not reasonable given prevailing wind conditions.
- (f) **Wind Erosion from Exposed Areas**  
The opacity shall be determined using 40 CFR 60, Appendix A, Method 9.
- (g) **Material Transported by Truck or Rail**  
Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 22, except that the observation shall be taken at approximately right angles to the prevailing wind from the leeward side of the truck or railroad car. Material transported by truck or rail that is enclosed and covered shall be considered in compliance with the inplant transportation requirement.
- (h) **Material Transported by Front End Loader or Skip Hoist**  
Compliance with this limitation shall be determined by the average of three (3) opacity readings taken at five (5) second intervals. The three (3) opacity readings shall be taken as follows:
  - (1) The first will be taken at the time of emission generation.
  - (2) The second will be taken five (5) seconds later.
  - (3) The third will be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet from the plume and at approximately right angles to the

plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

- (i) **Material Processing Limitations**  
Compliance with all opacity limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 9. Compliance with all visible emissions limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 22. Compliance with all particulate matter limitations from material processing equipment shall be determined using 40 CFR 60, Appendix A, Method 5 or 17.
- (j) **Dust Handling Equipment**  
Compliance with this standard shall be determined by 40 CFR 60, Appendix A, Method 9.

### **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### D.3.5 Record Keeping Requirements

Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Emission Limitations):

- (a) The source shall keep the following documentation to show compliance with each of its control measures and control practices:
  - (1) A map or diagram showing the location of all emission sources controlled, including the location, identification, length, and width of roadways.
  - (2) For each application of water or chemical solution to roadways, the following shall be recorded:
    - (A) The name and location of the roadway controlled
    - (B) Application rate (as indicated on control plan)
    - (C) Time of each application
    - (D) Width of each application
    - (E) Identification of each method of application
    - (F) Total quantity of water or chemical used for each application
    - (G) For each application of chemical solution, the concentration and identity of the chemical
    - (H) The material data safety sheets for each chemical
  - (3) For application of physical or chemical control agents not covered by paragraph (2) above, the following:
    - (A) The name of the agent
    - (B) Location of application
    - (C) Application rate
    - (D) Total quantity of agent used
    - (E) If diluted, percent of concentration
    - (F) The material data safety sheets for each chemical

- (4) A log recording incidents when control measures were not used and a statement of explanation.
- (5) Copies of all records required by this section shall be submitted to the department within twenty (20) working days of a written request by the department.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.3.6 Reporting Requirements

---

- (a) Pursuant to 326 IAC 6.8-10-4(4)(G) (Lake County Fugitive Particulate Matter Emission Limitations), a quarterly report shall be submitted, stating the following:
  - (1) The dates any required control measures were not implemented
  - (2) A listing of those control measures
  - (3) The reasons that the control measures were not implemented
  - (4) Any corrective action taken
- (b) These reports shall be submitted within thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C - General Reporting Requirements of this permit.

## SECTION E.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Lime Production

- (a) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-1; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-1; exhausting to stacks S-1A through S-1F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (b) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-2; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-2; exhausting to stacks S-2A through S-2F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (c) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-3; constructed in 1968; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-3; exhausting to stacks S-3A through S-3F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (d) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-4; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-4; exhausting to stacks S-4A through S-4F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (e) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-5; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-5; exhausting to stacks S-5A through S-5F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.

### Raw Material Storage and Handling (Fugitive)

- (y) Two (2) Limestone Storage Piles; identified as EU-23 and EU-29; each a capacity of greater than 9.5 acres; a source of fugitive emissions.
- (aa) Limestone Unloading and Processing operations; identified as EU-31; consisting of barge or boat unloading and assorted conveyors; a source of fugitive emissions.

### Specifically Regulated Insignificant Activities

- (a) Vehicular traffic on paved and unpaved roads, and parking lots with public access. [326 IAC 6-4] [326 IAC 6.8-10]
- (b) Activities with emissions equal to or less than the following thresholds: 5 lb/hr or 25 lb/day PM; 5 lb/hr or 25 lb/day SO<sub>2</sub>; 5 lb/hr or 25 lb/day NO<sub>x</sub>; 3 lb/hr or 15 lb/day VOC; 0.6 tons per year Pb; 1.0 ton/yr of a single HAP, or 2.5 ton/yr of any combination of HAPs: Assorted covered limestone conveyors; [326 IAC 6.8-1-2]

To the extent that any of the above listed operations, or any part of the above listed operations, are processed stone handling (PSH) operations, as defined in 40 CFR 63.7082(g) and 40 CFR 63.7143, then under 40 CFR Part 63, Subpart AAAAA, these facilities are considered an existing affected facility.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

## National Emission Standards for Hazardous Air Pollutants Requirements [326 IAC 2-7-5(1)]

### E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants [326 IAC 20-1] [40 CFR Part 63, Subpart A]

---

Pursuant to 40 CFR 63.7100, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the rotary kilns (EU1 - EU5) and the affected PSH operations at this source as specified in Appendix A of 40 CFR Part 63, Subpart AAAAA in accordance with schedule in 40 CFR 63 Subpart AAAAA.

### E.1.2 National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants Requirements [40 CFR Part 63, Subpart AAAAA] [326 IAC 20-91]

---

Pursuant to CFR Part 63, Subpart AAAAA, the Permittee shall comply with the provisions of 40 CFR Part 63, AAAAA, which are incorporated by reference as 326 IAC 20-91 for the rotary kilns (EU1 - EU5) and the affected PSH operations at this source as specified as follows.

#### § 63.7081 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate a lime manufacturing plant (LMP) that is a major source, or that is located at, or is part of, a major source of hazardous air pollutant (HAP) emissions, unless the LMP is located at a kraft pulp mill, soda pulp mill, sulfite pulp mill, beet sugar manufacturing plant, or only processes sludge containing calcium carbonate from water softening processes.

(1) An LMP is an establishment engaged in the manufacture of lime product (calcium oxide, calcium oxide with magnesium oxide, or dead burned dolomite) by calcination of limestone, dolomite, shells or other calcareous substances.

(2) A major source of HAP is a plant site that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (10 tons) or more per year or any combination of HAP at a rate of 22.68 megagrams (25 tons) or more per year from all emission sources at the plant site.

#### § 63.7082 What parts of my plant does this subpart cover?

(a) This subpart applies to each existing or new lime kiln(s) and their associated cooler(s), and processed stone handling (PSH) operations system(s) located at an LMP that is a major source.

(b) A new lime kiln is a lime kiln, and (if applicable) its associated lime cooler, for which construction or reconstruction began after December 20, 2002, if you met the applicability criteria in §63.7081 at the time you began construction or reconstruction.

(c) A new PSH operations system is the equipment in paragraph (g) of this section, for which construction or reconstruction began after December 20, 2002, if you met the applicability criteria in §63.7081 at the time you began construction or reconstruction.

(d) A lime kiln or PSH operations system is reconstructed if it meets the criteria for reconstruction defined in §63.2.

(e) An existing lime kiln is any lime kiln, and (if applicable) its associated lime cooler, that does not meet the definition of a new kiln of paragraph (b) of this section.

(f) An existing PSH operations system is any PSH operations system that does not meet the definition of a new PSH operations system in paragraph (c) of this section.

(g) A PSH operations system includes all equipment associated with PSH operations beginning at the processed stone storage bin(s) or open storage pile(s) and ending where the processed stone is fed into the kiln. It includes man-made processed stone storage bins (but not open processed stone storage piles), conveying system transfer points, bulk loading or unloading systems, screening operations, surge bins, bucket elevators, and belt conveyors. No other materials processing operations are subject to this subpart.

(h) Nuisance dust collectors on lime coolers are part of the lime materials processing operations and are not covered by this subpart.

- (i) Lime hydrators are not subject to this subpart.
- (j) Open material storage piles are not subject to this subpart.

§ 63.7083 When do I have to comply with this subpart?

(a) If you have a new affected source, you must comply with this subpart according to paragraphs (a)(1) and (2) of this section.

(1) If you start up your affected source before January 5, 2004, you must comply with the emission limitations no later than January 5, 2004, and you must have completed all applicable performance tests no later than July 5, 2004.

(b) If you have an existing affected source, you must comply with the applicable emission limitations for the existing affected source, and you must have completed all applicable performance tests no later than January 5, 2007.

(d) You must meet the notification requirements in §63.7130 according to the schedule in §63.7130 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limitations in this subpart.

#### Emission Limitations

§ 63.7090 What emission limitations must I meet?

(a) You must meet each emission limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit in Table 2 to this subpart that applies to you.

#### General Compliance Requirements

§ 63.7100 What are my general requirements for complying with this subpart?

(a) After your initial compliance date, you must be in compliance with the emission limitations (including operating limits) in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must be in compliance with the opacity and visible emission (VE) limits in this subpart during the times specified in §63.6(h)(1).

(c) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).

(d) You must prepare and implement for each LMP, a written operations, maintenance, and monitoring (OM&M) plan. You must submit the plan to the applicable permitting authority for review and approval as part of the application for a 40 CFR part 70 or 40 CFR part 71 permit. Any subsequent changes to the plan must be submitted to the applicable permitting authority for review and approval. Pending approval by the applicable permitting authority of an initial or amended plan, you must comply with the provisions of the submitted plan. Each plan must contain the following information:

(1) Process and control device parameters to be monitored to determine compliance, along with established operating limits or ranges, as applicable, for each emission unit.

(2) A monitoring schedule for each emission unit.

(3) Procedures for the proper operation and maintenance of each emission unit and each air pollution control device used to meet the applicable emission limitations and operating limits in Tables 1 and 2 to this subpart, respectively.

(4) Procedures for the proper installation, operation, and maintenance of monitoring devices or systems used to determine compliance, including:

(i) Calibration and certification of accuracy of each monitoring device;

- (ii) Performance and equipment specifications for the sample interface, parametric signal analyzer, and the data collection and reduction systems;
  - (iii) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (3), and (4)(ii); and
  - (iv) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d).
- (5) Procedures for monitoring process and control device parameters.
- (6) Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the operating limits specified in Table 2 to this subpart, including:
- (i) Procedures to determine and record the cause of a deviation or excursion, and the time the deviation or excursion began and ended; and
  - (ii) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time and date the corrective action was completed.
- (7) A maintenance schedule for each emission unit and control device that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.
- (e) You must develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).

#### Testing and Initial Compliance Requirements

§ 63.7110 By what date must I conduct performance tests and other initial compliance demonstrations?

- (a) If you have an existing affected source, you must complete all applicable performance tests within January 5, 2007, according to the provisions in §§63.7(a)(2) and 63.7114.
- (d) For each initial compliance requirement in Table 3 to this subpart that applies to you where the monitoring averaging period is 3 hours, the 3-hour period for demonstrating continuous compliance for emission units within existing affected sources at LMP begins at 12:01 a.m. on the compliance date for existing affected sources, that is, the day following completion of the initial compliance demonstration, and ends at 3:01 a.m. on the same day.
- (e) For each initial compliance requirement in Table 3 to this subpart that applies to you where the monitoring averaging period is 3 hours, the 3-hour period for demonstrating continuous compliance for emission units within new or reconstructed affected sources at LMP begins at 12:01 a.m. on the day following completion of the initial compliance demonstration, as required in paragraphs (b) and (c) of this section, and ends at 3:01 a.m. on the same day.

§ 63.7111 When must I conduct subsequent performance tests?

You must conduct a performance test within 5 years following the initial performance test and within 5 years following each subsequent performance test thereafter.

§ 63.7112 What performance tests, design evaluations, and other procedures must I use?

- (a) You must conduct each performance test in Table 4 to this subpart that applies to you.
- (b) Each performance test must be conducted according to the requirements in §63.7(e)(1) and under the specific conditions specified in Table 4 to this subpart.
- (c) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §63.7(e)(1).
- (d) Except for opacity and VE observations, you must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour.

(e) The emission rate of particulate matter (PM) from each lime kiln (and each lime cooler if there is a separate exhaust to the atmosphere from the lime cooler) must be computed for each run using Equation 1 of this section:

$$E = (C_k Q_k + C_c Q_c) / PK \quad (\text{Eq. 1})$$

Where:

E = Emission rate of PM, pounds per ton (lb/ton) of stone feed.

C<sub>k</sub> = Concentration of PM in the kiln effluent, grain/dry standard cubic feet (gr/dscf).

Q<sub>k</sub> = Volumetric flow rate of kiln effluent gas, dry standard cubic feet per hour (dscf/hr).

C<sub>c</sub> = Concentration of PM in the cooler effluent, grain/dscf. This value is zero if there is not a separate cooler exhaust to the atmosphere.

Q<sub>c</sub> = Volumetric flow rate of cooler effluent gas, dscf/hr. This value is zero if there is not a separate cooler exhaust to the atmosphere.

P = Stone feed rate, tons per hour (ton/hr).

K = Conversion factor, 7000 grains per pound (grains/lb).

(f)(1) If you choose to meet a weighted average emission limit as specified in item 4 of Table 1 to this subpart, you must calculate a combined particulate emission rate from all kilns and coolers within your LMP using Equation 2 of this section:

$$E_T = \frac{\sum_{i=1}^n E_i P_i}{\sum_{i=1}^n P_i} \quad (\text{Eq. 2})$$

Where:

E<sub>T</sub> = Emission rate of PM from all kilns and coolers, lb/ton of stone feed.

E<sub>i</sub> = Emission rate of PM from kiln i, or from kiln/cooler combination i, lb/ton of stone feed.

P<sub>i</sub> = Stone feed rate to kiln i, ton/hr.

n = Number of kilns you wish to include in averaging.

(2) You do not have to include every kiln in this calculation, only include kilns you wish to average. Kilns that have a PM emission limit of 0.60 lb/tsf are ineligible for any averaging.

(g) The weighted average PM emission limit from all kilns and coolers for which you are averaging must be calculated using Equation 3 of this section:

$$E_{TN} = \frac{\sum_{j=1}^m E_j P_j}{\sum_{j=1}^m P_j} \quad (\text{Eq. 3})$$

Where:

E<sub>TN</sub> = Weighted average PM emission limit for all kilns and coolers being included in averaging at the LMP, lb/ton of stone feed.

E<sub>j</sub> = PM emission limit (0.10 or 0.12) for kiln j, or for kiln/cooler combination j, lb/ton of stone feed.

$P_j$  = Stone feed rate to kiln  $j$ , ton/hr.

$m$  = Number of kilns and kiln/cooler combinations you are averaging at your LMP. You must include the same kilns in the calculation of ET and ETN. Kilns that have a PM emission limit of 0.60 lb/tsf are ineligible for any averaging.

(h) Performance test results must be documented in complete test reports that contain the information required by paragraphs (h)(1) through (10) of this section, as well as all other relevant information. The plan to be followed during testing must be made available to the Administrator at least 60 days prior to testing.

- (1) A brief description of the process and the air pollution control system;
- (2) Sampling location description(s);
- (3) A description of sampling and analytical procedures and any modifications to standard procedures;
- (4) Test results, including opacity;
- (5) Quality assurance procedures and results;
- (6) Records of operating conditions during the test, preparation of standards, and calibration procedures;
- (7) Raw data sheets for field sampling and field and laboratory analyses;
- (8) Documentation of calculations;
- (9) All data recorded and used to establish operating limits; and
- (10) Any other information required by the test method.

(j) You must establish any applicable 3-hour block average operating limit indicated in Table 2 to this subpart according to the applicable requirements in Table 3 to this subpart and paragraphs (j)(1) through (4) of this section.

- (1) Continuously record the parameter during the PM performance test and include the parameter record(s) in the performance test report.
- (2) Determine the average parameter value for each 15-minute period of each test run.
- (3) Calculate the test run average for the parameter by taking the average of all the 15-minute parameter values for the run.
- (4) Calculate the 3-hour operating limit by taking the average of the three test run averages.

(k) For each building enclosing any PSH operations that is subject to a VE limit, you must conduct a VE check according to item 18 in Table 4 to this subpart, and in accordance with paragraphs (k)(1) through (3) of this section.

- (1) Conduct visual inspections that consist of a visual survey of the building over the test period to identify if there are VE, other than condensed water vapor.
- (2) Select a position at least 15 but not more 1,320 feet from each side of the building with the sun or other light source generally at your back.
- (3) The observer conducting the VE checks need not be certified to conduct EPA Method 9 in appendix A to part 60 of this chapter, but must meet the training requirements as described in EPA Method 22 in appendix A to part 60 of this chapter.

(l) When determining compliance with the opacity standards for fugitive emissions from PSH operations in item 7 of Table 1 to this subpart, you must conduct EPA Method 9 in appendix A to part 60 of this chapter according to item 17 in Table 4 to this subpart, and in accordance with paragraphs (l)(1) through (3) of this section.

(1) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(2) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun must be followed.

(3) If you use wet dust suppression to control PM from PSH operations, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered VE. When a water mist of this nature is present, you must observe emissions at a point in the plume where the mist is no longer visible.

§ 63.7113 What are my monitoring installation, operation, and maintenance requirements?

(a) You must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to your OM&M plan required by §63.7100(d) and paragraphs (a)(1) through (5) of this section, and you must install, operate, and maintain each continuous opacity monitoring system (COMS) as required by paragraph (g) of this section

(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period.

(2) To calculate a valid hourly value, you must have at least four equally spaced data values (or at least two, if that condition is included to allow for periodic calibration checks) for that hour from a CPMS that is not out of control according your OM&M plan, and use all valid data.

(3) To calculate the average for each 3-hour block averaging period, you must use all valid data, and you must have at least 66 percent of the hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods).

(4) You must conduct a performance evaluation of each CPMS in accordance with your OM&M plan.

(5) You must continuously operate and maintain the CPMS according to the OM&M plan, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

(b) For each flow measurement device, you must meet the requirements in paragraphs (a)(1) through (5) and (b)(1) through (4) of this section.

(1) Use a flow sensor with a minimum tolerance of 2 percent of the flow rate.

(2) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(3) Conduct a flow sensor calibration check at least semiannually.

(4) At least monthly, inspect all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.

(c) For each pressure measurement device, you must meet the requirements in paragraphs (a)(1) through (5) and (c)(1) through (7) of this section.

(1) Locate the pressure sensor(s) in or as close to as possible a position that provides a representative measurement of the pressure.

(2) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.

(3) Use a gauge with a minimum tolerance of 0.5 inch of water or a transducer with a minimum tolerance of 1 percent of the pressure range.

(4) Check pressure tap pluggage daily.

- (5) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.
- (6) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.
- (7) At least monthly, inspect all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.
- (d) For each bag leak detection system (BLDS), you must meet any applicable requirements in paragraphs (a)(1) through (5) and (d)(1) through (8) of this section.
- (1) The BLDS must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.
- (2) The sensor on the BLDS must provide output of relative PM emissions.
- (3) The BLDS must have an alarm that will sound automatically when it detects an increase in relative PM emissions greater than a preset level.
- (4) The alarm must be located in an area where appropriate plant personnel will be able to hear it.
- (5) For a positive-pressure fabric filter (FF), each compartment or cell must have a bag leak detector (BLD). For a negative-pressure or induced-air FF, the BLD must be installed downstream of the FF. If multiple BLD are required (for either type of FF), the detectors may share the system instrumentation and alarm.
- (6) Bag leak detection systems must be installed, operated, adjusted, and maintained according to the manufacturer's written specifications and recommendations. Standard operating procedures must be incorporated into the OM&M plan.
- (7) At a minimum, initial adjustment of the system must consist of establishing the baseline output in both of the following ways:
- (i) Adjust the range and the averaging period of the device.
- (ii) Establish the alarm set points and the alarm delay time.
- (8) After initial adjustment, the range, averaging period, alarm set points, or alarm delay time may not be adjusted except as specified in the OM&M plan required by §63.7100(d). In no event may the range be increased by more than 100 percent or decreased by more than 50 percent over a 365-day period unless a responsible official, as defined in §63.2, certifies in writing to the Administrator that the FF has been inspected and found to be in good operating condition.
- (e) For each PM detector, you must meet any applicable requirements in paragraphs (a)(1) through (5) and (e)(1) through (8) of this section.
- (1) The PM detector must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.
- (2) The sensor on the PM detector must provide output of relative PM emissions.
- (3) The PM detector must have an alarm that will sound automatically when it detects an increase in relative PM emissions greater than a preset level.
- (4) The alarm must be located in an area where appropriate plant personnel will be able to hear it.
- (5) For a positive-pressure electrostatic precipitator (ESP), each compartment must have a PM detector. For a negative-pressure or induced-air ESP, the PM detector must be installed downstream of the ESP. If

multiple PM detectors are required (for either type of ESP), the detectors may share the system instrumentation and alarm.

(6) Particulate matter detectors must be installed, operated, adjusted, and maintained according to the manufacturer's written specifications and recommendations. Standard operating procedures must be incorporated into the OM&M plan.

(7) At a minimum, initial adjustment of the system must consist of establishing the baseline output in both of the following ways:

(i) Adjust the range and the averaging period of the device.

(ii) Establish the alarm set points and the alarm delay time.

(8) After initial adjustment, the range, averaging period, alarm set points, or alarm delay time may not be adjusted except as specified in the OM&M plan required by §63.7100(d). In no event may the range be increased by more than 100 percent or decreased by more than 50 percent over a 365-day period unless a responsible official as defined in §63.2 certifies in writing to the Administrator that the ESP has been inspected and found to be in good operating condition.

(f) For each emission unit equipped with an add-on air pollution control device, you must inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in item 6 of Table 2 to this subpart and record the results of each inspection.

(g) For each COMS used to monitor an add-on air pollution control device, you must meet the requirements in paragraphs (g)(1) and (2) of this section.

(1) Install the COMS at the outlet of the control device.

(2) Install, maintain, calibrate, and operate the COMS as required by 40 CFR part 63, subpart A, General Provisions and according to Performance Specification (PS)–1 of appendix B to part 60 of this chapter. Facilities that operate COMS installed on or before February 6, 2001, may continue to meet the requirements in effect at the time of COMS installation unless specifically required to re-certify the COMS by their permitting authority.

§ 63.7114 How do I demonstrate initial compliance with the emission limitations standard?

(a) You must demonstrate initial compliance with each emission limit in Table 1 to this subpart that applies to you, according to Table 3 to this subpart. For existing lime kilns and their associated coolers, you may perform VE measurements in accordance with EPA Method 9 of appendix A to part 60 in lieu of installing a COMS or PM detector if any of the conditions in paragraphs (a)(1) through (3) of this section exist:

(1) You use a FF for PM control, and the FF is under positive pressure and has multiple stacks; or

(2) The control device exhausts through a monovent; or

(3) The installation of a COMS in accordance with PS–1 of appendix B to part 60 is infeasible.

(b) You must establish each site-specific operating limit in Table 2 to this subpart that applies to you according to the requirements in §63.7112(j) and Table 4 to this subpart. Alternative parameters may be monitored if approval is obtained according to the procedures in §63.8(f)

(c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.7130(e).

#### Continuous Compliance Requirements

§ 63.7120 How do I monitor and collect data to demonstrate continuous compliance?

(a) You must monitor and collect data according to this section.

(b) Except for monitor malfunctions, associated repairs, required quality assurance or control activities (including, as applicable, calibration checks and required zero adjustments), and except for PSH operations subject to monthly VE testing, you must monitor continuously (or collect data at all required intervals) at all times that the emission unit is operating.

(c) Data recorded during the conditions described in paragraphs (c)(1) through (3) of this section may not be used either in data averages or calculations of emission or operating limits; or in fulfilling a minimum data availability requirement. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system.

(1) Monitoring system breakdowns, repairs, preventive maintenance, calibration checks, and zero (low-level) and high-level adjustments;

(2) Periods of non-operation of the process unit (or portion thereof), resulting in cessation of the emissions to which the monitoring applies; and

(3) Start-ups, shutdowns, and malfunctions.

§ 63.7121 How do I demonstrate continuous compliance with the emission limitations standard?

(a) You must demonstrate continuous compliance with each emission limitation in Tables 1 and 2 to this subpart that applies to you according to the methods specified in Tables 5 and 6 to this subpart.

(b) You must report each instance in which you did not meet each operating limit, opacity limit, and VE limit in Tables 2 and 6 to this subpart that applies to you. This includes periods of startup, shutdown, and malfunction. These instances are deviations from the emission limitations in this subpart. These deviations must be reported according to the requirements in §63.7131.

(d) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1). The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

(e) For each PSH operation subject to an opacity limit as specified in Table 1 to this subpart, and any vents from buildings subject to an opacity limit, you must conduct a VE check according to item 1 in Table 6 to this subpart, and as follows:

(1) Conduct visual inspections that consist of a visual survey of each stack or process emission point over the test period to identify if there are VE, other than condensed water vapor.

(2) Select a position at least 15 but not more 1,320 feet from the affected emission point with the sun or other light source generally at your back.

(3) The observer conducting the VE checks need not be certified to conduct EPA Method 9 in appendix A to part 60 of this chapter, but must meet the training requirements as described in EPA Method 22 of appendix A to part 60 of this chapter.

(f) For existing lime kilns and their associated coolers, you may perform VE measurements in accordance with EPA Method 9 of appendix A to part 60 in lieu of installing a COMS or PM detector if any of the conditions in paragraphs (f)(1) or (3) of this section exist:

(1) You use a FF for PM control, and the FF is under positive pressure and has multiple stacks; or

(2) The control device exhausts through a monovent; or

(3) The installation of a COMS in accordance with PS-1 of appendix B to part 60 is infeasible.

Notification, Reports, and Records

§ 63.7130 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.6(h)(4) and (5); 63.7(b) and (c); 63.8(e); (f)(4) and (6); and 63.9 (a) through (j) that apply to you, by the dates specified.

(b) As specified in §63.9(b)(2), if you start up your affected source before January 5, 2004, you must submit an initial notification not later than 120 calendar days after January 5, 2004.

(c) If you startup your new or reconstructed affected source on or after January 5, 2004, you must submit an initial notification not later than 120 calendar days after you start up your affected source.

(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin, as required in §63.7(b)(1).

(e) If you are required to conduct a performance test, design evaluation, opacity observation, VE observation, or other initial compliance demonstration as specified in Table 3 or 4 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration required in Table 3 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.

(2) For each compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 4 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).

§ 63.7131 What reports must I submit and when?

(a) You must submit each report listed in Table 7 to this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date specified in Table 7 to this subpart and according to the requirements in paragraphs (b)(1) through (5) of this section:

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7083 and ending on June 30 or December 31, whichever date is the first date following the end of the first half calendar year after the compliance date that is specified for your source in §63.7083.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first half calendar year after the compliance date that is specified for your affected source in §63.7083.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to part 70 or part 71 of this chapter, if the permitting authority has established dates for submitting semiannual reports pursuant to §§70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A) of this chapter, you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates specified in paragraphs (b)(1) through (4) of this section.

(c) The compliance report must contain the information specified in paragraphs (c)(1) through (6) of this section.

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a startup, shutdown or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in §63.10(d)(5)(i).

(5) If there were no deviations from any emission limitations (emission limit, operating limit, opacity limit, and VE limit) that apply to you, the compliance report must include a statement that there were no deviations from the emission limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring systems (CMS) were out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CMS were out-of-control during the reporting period.

(d) For each deviation from an emission limitation (emission limit, operating limit, opacity limit, and VE limit) that occurs at an affected source where you are not using a CMS to comply with the emission limitations in this subpart, the compliance report must contain the information specified in paragraphs (c)(1) through (4) and (d)(1) and (2) of this section. The deviations must be reported in accordance with the requirements in §63.10(d).

(1) The total operating time of each emission unit during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(e) For each deviation from an emission limitation (emission limit, operating limit, opacity limit, and VE limit) occurring at an affected source where you are using a CMS to comply with the emission limitation in this subpart, you must include the information specified in paragraphs (c)(1) through (4) and (e)(1) through (11) of this section. This includes periods of startup, shutdown, and malfunction.

(1) The date and time that each malfunction started and stopped.

(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(5) A summary of the total duration of the deviations during the reporting period and the total duration as a percent of the total affected source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total emission unit operating time during that reporting period.

(8) A brief description of the process units.

(9) A brief description of the CMS.

(10) The date of the latest CMS certification or audit.

(11) A description of any changes in CMS, processes, or controls since the last reporting period.

(f) Each facility that has obtained a title V operating permit pursuant to part 70 or part 71 of this chapter must report all deviations as defined in this subpart in the semiannual monitoring report required by §§70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A) of this chapter. If you submit a compliance report specified in Table 7 to this subpart along with, or as part of, the semiannual monitoring report required by §§70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A) of this chapter, and the compliance report includes all required information concerning deviations from any emission limitation (including any operating limit), submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report shall not otherwise affect any obligation you may have to report deviations from permit requirements to the permit authority.

§ 63.7132 What records must I keep?

(a) You must keep the records specified in paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, performance evaluations, and opacity and VE observations as required in §63.10(b)(2)(viii).

(b) You must keep the records in §63.6(h)(6) for VE observations.

(c) You must keep the records required by Tables 5 and 6 to this subpart to show continuous compliance with each emission limitation that applies to you.

(d) You must keep the records which document the basis for the initial applicability determination as required under §63.7081.

§ 63.7133 In what form and for how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You may keep the records offsite for the remaining 3 years.

#### Other Requirements and Information

§ 63.7140 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. When there is overlap between subpart A and subpart AAAAA, as indicated in the "Explanations" column in Table 8, subpart AAAAA takes precedence.

§ 63.7141 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by us, the U.S. EPA, or by a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are as specified in paragraphs (c)(1) through (6) of this section.

(1) Approval of alternatives to the non-opacity emission limitations in §63.7090(a).

(2) Approval of alternative opacity emission limitations in §63.7090(a).

(3) Approval of alternatives to the operating limits in §63.7090(b).

(4) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(5) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(6) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§ 63.7143 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows:

Bag leak detector system (BLDS) is a type of PM detector used on FF to identify an increase in PM emissions resulting from a broken filter bag or other malfunction and sound an alarm.

Belt conveyor means a conveying device that transports processed stone from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

Bucket elevator means a processed stone conveying device consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

Building means any frame structure with a roof.

Capture system means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport PM to a control device.

Control device means the air pollution control equipment used to reduce PM emissions released to the atmosphere from one or more process operations at an LMP.

Conveying system means a device for transporting processed stone from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to feeders, belt conveyors, bucket elevators and pneumatic systems.

Deviation means any instance in which an affected source, subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including any operating limit);

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation (including any operating limit) in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is allowed by this subpart.

Emission limitation means any emission limit, opacity limit, operating limit, or VE limit.

Emission unit means a lime kiln, lime cooler, storage bin, conveying system transfer point, bulk loading or unloading operation, bucket elevator or belt conveyor at an LMP.

Fugitive emission means PM that is not collected by a capture system.

Hydrator means the device used to produce hydrated lime or calcium hydroxide via the chemical reaction of the lime product with water.

Lime cooler means the device external to the lime kiln (or part of the lime kiln itself) used to reduce the temperature of the lime produced by the kiln.

Lime kiln means the device, including any associated preheater, used to produce a lime product from stone feed by calcination. Kiln types include, but are not limited to, rotary kiln, vertical kiln, rotary hearth kiln, double-shaft vertical kiln, and fluidized bed kiln.

Lime manufacturing plant (LMP) means any plant which uses a lime kiln to produce lime product from limestone or other calcareous material by calcination.

Lime product means the product of the lime kiln calcination process including, calcitic lime, dolomitic lime, and dead-burned dolomite.

Limestone means the material comprised primarily of calcium carbonate (referred to sometimes as calcitic or high calcium limestone), magnesium carbonate, and/or the double carbonate of both calcium and magnesium (referred to sometimes as dolomitic limestone or dolomite).

Monovent means an exhaust configuration of a building or emission control device (e.g., positive pressure FF) that extends the length of the structure and has a width very small in relation to its length (i.e., length-to-width ratio is typically greater than 5:1). The exhaust may be an open vent with or without a roof, louvered vents, or a combination of such features.

Particulate matter (PM) detector means a system that is continuously capable of monitoring PM loading in the exhaust of FF or ESP in order to detect bag leaks, upset conditions, or control device malfunctions and sounds an alarm at a preset level. A PM detector system includes, but is not limited to, an instrument that operates on triboelectric, light scattering, light transmittance, or other effects to continuously monitor relative particulate loadings. A BLDS is a type of PM detector.

Positive pressure FF or ESP means a FF or ESP with the fan(s) on the upstream side of the control device.

Process stone handling operations means the equipment and transfer points between the equipment used to transport processed stone, and includes, storage bins, conveying system transfer points, bulk loading or unloading systems, screening operations, bucket elevators, and belt conveyors.

Processed stone means limestone or other calcareous material that has been processed to a size suitable for feeding into a lime kiln.

Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series and retaining oversize material on the mesh surfaces (screens).

Stack emissions means the PM that is released to the atmosphere from a capture system or control device.

Storage bin means a manmade enclosure for storage (including surge bins) of processed stone prior to the lime kiln.

Transfer point means a point in a conveying operation where the material is transferred to or from a belt conveyor.

Vent means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying PM emissions from one or more emission units.

**Table 1 to Subpart AAAAA of Part 63—Emission Limits**

As required in §63.7090(a), you must meet each emission limit in the following table that applies to you.

For . . .	You must meet the following emission limit
1. Existing lime kilns and their associated lime coolers that did not have a wet scrubber installed and operating prior to January 5, 2004.	PM emissions must not exceed 0.12 pounds per ton of stone feed (lb/tsf).
4. All existing and new lime kilns and their associated coolers at your LMP, and you choose to average PM emissions, except that any kiln that is allowed to meet the 0.60 lb/tsf PM emission limit is ineligible for averaging.	Weighted average PM emissions calculated according to Eq. 2 in § 63.7112 must not exceed 0.12 lb/tsf (if you are averaging only existing kilns) or 0.10 lb/tsf (if you are averaging only new kilns). If you are averaging existing and new kilns, your weighted average PM emissions must not exceed the weighted average emission limit calculated according to Eq. 3 in § 63.7112, except that no new kiln and its associated cooler considered alone may exceed an average PM emissions limit of 0.10 lb/tsf.
5. Stack emissions from all PSH operations at a new or existing affected source.	PM emissions must not exceed 0.05 grams per dry standard cubic meter (g/dscm).
6. Stack emissions from all PSH operations at a new or existing affected source, unless the stack emissions are discharged through a wet scrubber control device.	Emissions must not exceed 7 percent opacity.
7. Fugitive emissions from all PSH operations at a new or existing affected source, except as provided by item 8 of this Table 1.	Emissions must not exceed 10 percent opacity.
8. All PSH operations at a new or existing affected source enclosed in a building.	All of the individually affected PSH operations must comply with the applicable PM and opacity emission limitations in items 5 through 7 of this Table 1, or the building must comply with the following: There must be no VE from the building, except from a vent; and vent emissions must not exceed the stack emissions limitations in items 5 and 6 of this Table 1.
9. Each FF that controls emissions from only an individual, enclosed storage bin.	Emissions must not exceed 7 percent opacity.
10. Each set of multiple storage bins at a new or existing affected source, with combined stack emissions.	You must comply with the emission limits in items 5 and 6 of this Table 1.

**Table 2 to Subpart AAAAA of Part 63—Operating Limits**

As required in §63.7090(b), you must meet each operating limit in the following table that applies to you.

For . . .	You must . . .
1. Each lime kiln and each lime cooler (if there is a separate exhaust to the atmosphere from the associated lime cooler) equipped with an FF.	Maintain and operate the FF such that the BLDS or PM detector alarm condition does not exist for more than 5 percent of the total operating time in a 6-month period; and comply with the requirements in § 63.7113(d) through (f) and Table 5 to this subpart. In lieu of a BLDS or PM detector maintain the FF such that the 6-minute average opacity for any 6-minute block period does not exceed 15 percent; and comply with the requirements in § 63.7113(f) and (g) and Table 5 to this subpart.
4. Each PSH operation subject to a PM limit which uses a wet scrubber.	Maintain the 3-hour block average exhaust gas stream pressure drop across the wet scrubber greater than or equal to the pressure drop operating limit established during the PM performance test; and maintain the 3-hour block average scrubbing liquid flow rate greater than or equal to the flow rate operating limit established during the performance test.
5. All affected sources.....	Prepare a written OM&M plan; the plan must include the items listed in § 63.7100(d) and the corrective actions to be taken when required in Table 5 to this subpart.
6. Each emission unit equipped with an add-on air pollution control device.	a. Vent captured emissions through a closed system, except that dilution air may be added to emission streams for the purpose of controlling temperature at the inlet to an FF; and b. Operate each capture/ collection system according to the procedures and requirements in the OM&M plan.

**Table 3 to Subpart AAAAA of Part 63—Initial Compliance With Emission Limits**

As required in §63.7114, you must demonstrate initial compliance with each emission limitation that applies to you, according to the following table.

For . . .	For the following emission limit . . .	You have demonstrated initial compliance, if after following the requirements in § 63.7112 . . .
1. All new or existing lime kilns and their associated lime coolers (kilns/coolers).	PM emissions must not exceed 0.12 lb/tsf for all existing kilns/coolers with dry controls, 0.60 lb/tsf for existing kilns/coolers with wet scrubbers, 0.10 lb/tsf for all new kilns/coolers, or a weighted average calculated according to Eq. 3 in §63.7112.	The kiln outlet PM emissions (and if applicable, summed with the separate cooler PM emissions), based on the PM emissions measured using Method 5 in appendix A to part 60 of this chapter and the stone feed rate measurement over the period of initial performance test, do not exceed the emission limit; if the lime kiln is controlled by an FF or ESP and you are opting to monitor PM emissions with a BLDS or PM detector, you have installed and are operating the monitoring device according to the requirements in § 63.7113(d) or (e), respectively; and if the lime kiln is controlled by an FF or ESP and you are opting to monitor PM emissions using a COMS, you have installed and are operating the OMS according to the requirements in §63.7113(g).
2. Stack emissions from all PHS operations at a new or existing affected source.	PM emissions must not exceed 0.05 g/dscm.	The outlet PM emissions, based on Method 5 or method 17 in appendix A to part 60 of this chapter, over the period of the initial performance test do not exceed 0.05 g/dscm; and if the emission unit is controlled with a wet scrubber, you have a record of the scrubber's pressure drop and liquid flow rate operating parameters over the 3-hour performance test during which emissions did not exceed the emissions limitation.
3. Stack emissions from all PSH operations at a new or existing affected source, unless the stack emissions are discharged through a wet scrubber control device.	Emissions must not exceed 7 percent opacity.	Each of the thirty 6-minute opacity averages during the initial period, using Method 9 in appendix A to part 60 of this chapter, does not exceed the 7 percent opacity limit. At least thirty 6-minute averages must be obtained.
4. Fugitive emissions from all PSH operations at a new or existing affected source.	Emissions must not exceed 10 percent opacity.	Each of the 6-minute opacity averages during the initial compliance period, using Method 9 in appendix A to part 60 of this chapter, does not exceed the 10 percent opacity limit.

- |   |   |  |
|---|---|--|
| 5. All PSH operations at a new or existing affected source, enclosed in building. | All of the individually affected PSH operations must comply with the applicable PM and opacity emission limitations for items 2 through 4 of this Table 3, or the building must comply with the following: There must be no VE from the building, except from a vent, and vent emissions must not exceed the emission limitations in items 2 and 3 of this Table 3. | All the PSH operations enclosed in the building have demonstrated initial compliance according to the applicable requirements for items 2 through 4 of this Table 3; or if you are complying with the building emission limitations, there are no VE from the building according to item 18 of Table 4 to this subpart and §63.7112(k), and you demonstrate initial compliance with applicable building vent emissions limitations according to the requirements in items 2 and 3 of this Table 3. |
| 6. Each FF that controls emissions from only an individual storage bin.           | Emissions must not exceed 7 percent opacity.  | Each of the ten 6-minute averages during the 1-hour initial compliance period, using Method 9 in appendix A to part 60 of this chapter, does not exceed the 7 percent opacity limit.   |
| 7. Each set of multiple storage bins with combined stack emissions.               | You must comply with emission limitations in items 2 and 3 of this Table 3.   | You demonstrate initial compliance according to the requirements in items 2 and 3 of this Table 3.   |

**Table 4 to Subpart AAAAA of Part 63—Requirements for Performance Tests**  
**As required in §63.7112, you must conduct each performance test in the following table that applies to you.**

For . . .	You must . . .	Using . . .	According to the following requirements . . .
1. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler.	Select the location of the sampling port and the number of traverse ports.	Method 1 or 1A of appendix A to part 60 of this chapter; and § 63.6(d)(1)(i).	Sampling sites must be located at the outlet of the control device(s) and prior to any releases to the atmosphere.
2. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler.	Determine velocity and volumetric flow rate.	Method 2, 2A, 2C, 2D, 2F, or 2G in appendix A to part 60 of this chapter.	Not applicable.
3. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler.	Conduct gas molecular weight analysis.	Method 3, 3A, or 3B in appendix A to part 60 of this chapter.	Not applicable.

4. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler.	Measure moisture content of the stack gas.	Method 4 in appendix A to part 60 of this chapter.	Not applicable.
5. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler, and which uses a negative pressure PM control device.	Measure PM emissions...	Method 5 in appendix A to part 60 of this chapter.	Conduct the test(s) when the source is operating at representative operating conditions in accordance with § 63.7(e); the minimum sampling volume must be 0.85 dry standard cubic meter (dscm) (30 dry standard cubic foot (dscf)); if there is a separate lime cooler exhaust to the atmosphere, you must conduct the Method 5 test of the cooler exhaust concurrently with the kiln exhaust test.
6. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler, and which uses a positive pressure FF or ESP.	Measure PM emissions...	Method 5D in appendix A to part 60 of this chapter.	Conduct the test(s) when the source is operating at representative operating conditions in accordance with § 63.7(e); if there is a separate lime cooler exhaust to the atmosphere, you must conduct the Method 5 test of the separate cooler exhaust concurrently with the kiln exhaust test.
7. Each lime kiln.....	Determine the mass rate of stone feed to the kiln during the kiln PM emissions test.	Any suitable device....	Calibrate and maintain the device according to manufacturer's instructions; the measuring device used must be accurate to within ±5 percent of the mass rate of stone feed over its operating range.
10. Each lime kiln equipped with a FF or ESP that is monitored with a PM detector.	Have installed and have operating the BLDS or PM detector prior to the performance test.	Standard operating procedures incorporated into the OM&M plan.	According to the requirements in § 63.7113(d) or (e), respectively.
11. Each lime kiln equipped with a FF or ESP that is monitored with a COMS.	Have installed and have operating the COMS	Standard operating procedures	According to the requirements in §

	prior to the performance test.	incorporated into the OM&M plan and as required by 40 CFR part 63, subpart A, General Provisions and according to PS-1 of appendix B to part 60 of this chapter, except as specified in § 63.7113(g)(2).	63.7113(g).
12. Each stack emission from a PSH operation, vent from a building enclosing a PSH operation, or set of multiple storage bins with combined stack emissions, which is subject to a PM emission limit.	Measure PM emissions...	Method 5 or Method 17 in appendix A to part 60 of this chapter.	The sample volume must be at least 1.70 dscm (60 dscf); for Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters; and if the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter (Method 17 may be used only with exhaust gas temperatures of not more than 250 °F).
13. Each stack emission from a PSH operation, vent from a building enclosing a PSH operation, or set of multiple storage bins with combined stack emissions, which is subject to an opacity limit.	Conduct opacity observations.	Method 9 in appendix A to part 60 of this chapter.	The test duration must be for at least 3 hours and you must obtain at least thirty, 6-minute averages.
14. Each stack emissions source from a PSH operation subject to a PM or opacity limit, which uses a wet scrubber.	Establish the average gas stream pressure drop across the wet scrubber.	Data for the gas stream pressure drop measurement device during the PSH operation stack PM performance test.	The pressure drop measurement device must be accurate within plus or minus 1 percent; you must collect the pressure drop data during the period of the performance test and determine the operating limit according to § 63.7112(j).
15. Each stack emissions source from a PSH operation subject to a PM or opacity limit, which uses a wet scrubber.	Establish the operating limit for the average liquid flow rate to the scrubber.	Data from the liquid flow rate measurement device during the PSH operation stack PM performance test.	The continuous scrubbing liquid flow rate measuring device must be accurate within plus or minus 1

			percent; you must collect the flow rate data during the period of the performance test and determine the operating limit according to § 63.7112(j).
16. Each FF that controls emissions from only an individual, enclosed, new or existing storage bin.	Conduct opacity observations.	Method 9 in appendix A to part 60 of this chapter.	The test duration must be for at least 1 hour and you must obtain ten 6-minute averages.
17. Fugitive emissions from any PSH operation subject to an opacity limit.	Conduct opacity observations.	Method 9 in appendix A to part 60 of this chapter.	The test duration must be for at least 3 hours, but the 3-hour test may be reduced to 1 hour if, during the first 1-hour period, there are no individual readings greater than 10 percent opacity and there are no more than three readings of 10 percent during the first 1-hour period.
18. Each building enclosing any PSH operation, that is subject to a VE limit.	Conduct VE check.....	The specifications in § 63.7112(k).	The performance test must be conducted while all affected PSH operations within the building are operating; the performance test for each affected building must be at least 75 minutes, with each side of the building and roof being observed for at least 15 minutes.

**Table 5 to Subpart AAAAA of Part 63—Continuous Compliance with Operating Limits**

As required in §63.7121, you must demonstrate continuous compliance with each operating limit that applies to you, according to the following table:

For . . .	For the following operating limit . . .	You must demonstrate continuous compliance by . . .
2. Each lime kiln or lime cooler equipped with a FF and using a BLDS, and each lime kiln equipped with an ESP or FF	a. Maintain and operate the FF or ESP such that the bag leak or PM	(i) Operating the FF or ESP so that the alarm on the bag leak or PM

using a PM detector.

detector alarm,  
is not activated  
and alarm  
condition does  
not exist for  
more than 5  
percent of the  
total operating  
time in each 6-  
month period.

detection system  
is not activated  
and an alarm  
condition does  
not exist for  
more than 5  
percent of the  
total operating  
time in each 6-  
month reporting  
period; and  
continuously  
recording the  
output from the  
BLD or PM  
detection system;  
and

(ii) Each time the  
alarm sounds and  
the owner or  
operator  
initiates  
corrective  
actions within 1  
hour of the  
alarm, 1 hour of  
alarm time will  
be counted (if  
the owner or  
operator takes  
longer than 1  
hour to initiate  
corrective  
actions, alarm  
time will be  
counted as the  
actual amount of  
time taken by the  
owner or operator  
to initiate  
corrective  
actions); if  
inspection of the  
FF or ESP system  
demonstrates that  
no corrective  
actions are  
necessary, no  
alarm time will  
be counted.

4. For each lime kiln or lime cooler equipped with a FF or an ESP that uses a COMS as the monitoring device.

a. Maintain and operate the FF or ESP such that the average opacity for any 6-minute block period does not exceed 15 percent.

i. Installing, maintaining, calibrating and operating a COMS as required by 40 CFR part 63, subpart A, General Provisions and according to PS-1 of appendix B to part 60 of this chapter, except as specified in

§  
63.7113(g)(2);  
and  
ii. Collecting the  
COMS data at a  
frequency of at  
least once every  
15 seconds,  
determining block  
averages for each  
6-minute period  
and demonstrating  
for each 6-minute  
block period the  
average opacity  
does not exceed  
15 percent.

---

**Table 6 to Subpart AAAAA of Part 63—Periodic Monitoring for Compliance With Opacity and Visible Emissions Limits**

As required in §63.7121 you must periodically demonstrate compliance with each opacity and VE limit that applies to you, according to the following table:

For...	For the following emission limitation...	You must demonstrate ongoing compliance ...
1. Each PSH operation subject to an opacity limitation as required in Table 1 to this subpart, or any vents from buildings subject to an opacity limitation.	a. 7-10 percent opacity, depending on the PSH operation, as required in Table 1 to this subpart.	(i) Conducting a monthly 1-minute VE check of each emission unit in accordance with § 63.7121(e); the check must be conducted while the affected source is in operation; (ii) If no VE are observed in 6 consecutive monthly checks for any emission unit, you may decrease the frequency of VE checking from monthly to semi-annually for that emission unit; if VE are observed during any semiannual check, you must resume VE checking of that emission unit on a monthly basis and maintain that schedule until no VE are observed in 6 consecutive monthly checks; (iii) If no VE are observed during the semiannual check for any emission unit, you may decrease the frequency of VE checking from semi-annually to annually for that emission unit; if VE are observed during any annual check, you must resume VE checking of that emission unit on a monthly basis and maintain that schedule until no VE are observed in 6 consecutive monthly checks; and (iv) If VE are observed during any VE check, you must conduct a 6-minute test of opacity in accordance with Method 9 of appendix A to part 60 of this chapter; you must begin the Method 9 test within 1 hour of any observation of VE and the 6-minute opacity reading must not exceed the applicable opacity limit.
2. Any building subject to a VE limit, according	a. No VE...	(i) Conducting a monthly VE check of the building, in accordance with the specifications in §63.7112(k); the check must be conducted while all the enclosed PSH operations are operating; (ii) The check for each affected building must

to item 8  
 of Table 1  
 to this  
 subpart.

be at least 5 minutes, with each side of the building and roof being observed for at least 1 minute;

(iii) If no VE are observed in 6 consecutive monthly checks of the building, you may decrease the frequency of checking from monthly to semi-annually for that affected source; if VE are observed during any semi-annual check, you must resume checking on a monthly basis and maintain that schedule until no VE are observed in 6 consecutive monthly checks; and

(iv) If no VE are observed during the semi-annual check, you may decrease the frequency of checking from semi-annually to annually for that affected source; and if VE are observed during any annual check, you must resume checking of that emission unit on a monthly basis and maintain that schedule until no VE are observed in 6 consecutive monthly checks (the source is in compliance if no VE are observed during any of these checks).

**Table 7 to Subpart AAAAA of Part 63—Requirements for Reports**

As required in §63.7131, you must submit each report in this table that applies to you.

You must submit a . . .	The report must contain . . .	You must submit the report . . .
1. Compliance report.....	a. If there are no deviations from any emission limitations (emission limit, operating limit, opacity limit, and VE limit) that applies to you, a statement that there were no deviations from the emission limitations during the reporting period; b. If there were no periods during which the CMS, including any operating parameter monitoring system, was out-of-control as specified in § 63.8(c)(7), a statement that there were no periods during which the CMS was	Semiannually according to the requirements in § 63.7131(b).  Semiannually according to the requirements in § 63.7131(b).

- out-of-control during the reporting period;
- c. If you have a deviation from any emission limitation (emission limit, operating limit, opacity limit, and VE limit) during the reporting period, the report must contain the information in § 63.7131(d);
- d. If there were periods during which the CMS, including any operating parameter monitoring system, was out-of-control, as specified in § 63.8(c)(7), the report must contain the information in § 63.7131(e); and
- e. If you had a startup, shutdown or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in § 63.10(d)(5)(i).
2. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your SSMP.
3. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your SSMP.
- Semiannually according to the requirements in § 63.7131(b).
- Semiannually according to the requirements in § 63.7131(b).
- Semiannually according to the requirements in § 63.7131(b).
- By fax or telephone within 2 working days after starting actions inconsistent with the SSMP.
- By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting

authority. See  
§  
63.10(d)(5)(ii).

E.1.3 One Time Deadlines Relating to National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants Requirements [40 CFR Part 63, Subpart AAAAA]

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline	Date Permittee Complied with the Requirement
Notification of Intent to Conduct Performance Test	40 CFR 63.7(b)(1)	lime kilns	11/6/06	7/21/06 and 9/27/06
Initial Performance Test	40 CFR 63.7083(b) 40 CFR 63.7110(a)	lime kilns	1/5/07	9/6/06, 9/7/06, 9/11/06, 12/6/06, and 1/3/07
Notification of Compliance Status	40 CFR 63.9(h)(2)(ii)	lime kilns, PSH	3/5/07	12/1/06

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
AND THE GARY DEPARTMENT OF ENVIRONMENTAL  
AFFAIRS**

**PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Carmeuse Lime, Inc.  
Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
Part 70 Permit No.: T089-6140-00112

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify)
- Report (specify)
- Notification (specify)
- Affidavit (specify)
- Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

**and the Gary Department of Environmental Affairs**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Carmeuse Lime, Inc.  
Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
Part 70 Permit No.: T089-6140-00112

**This form consists of 2 pages**

**Page 1 of 2**

- 9** This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
  - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

**Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 Compliance Data Section  
 and the Gary Department of Environmental Affairs**

**Part 70 Monthly Report**

Source Name: Carmeuse Lime, Inc.  
 Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Part 70 Permit No.: T089-6140-00112  
 Facility: Rotary Kiln #1 (EU-1)  
 Limit: 80 pounds of SO2 per hour

Time/ Date of Sample	Sulfur Content of Limestone (%S wt.)	Throughput of Limestone (lb/hr)	Sulfur Content of Coal (%S wt.)	Throughput of Coal (lb/hr)	Sulfur Content of Lime (%S wt.)	Lime Production (lb/hr)	Sulfur Content of Flue Dust (%S wt.)	Flue Dust Production (lb/hr)	SO2 Emissions (lb/hr)

No deviation occurred in this month.

Deviation/s occurred in this month.

Deviation has been reported on:

Submitted by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 Compliance Data Section  
 and the Gary Department of Environmental Affairs**

**Part 70 Monthly Report**

Source Name: Carmeuse Lime, Inc.  
 Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Part 70 Permit No.: T089-6140-00112  
 Facility: Rotary Kiln #2 (EU-2)  
 Limit: 80 pounds of SO2 per hour

Time/ Date of Sample	Sulfur Content of Limestone (%S wt.)	Throughput of Limestone (lb/hr)	Sulfur Content of Coal (%S wt.)	Throughput of Coal (lb/hr)	Sulfur Content of Lime (%S wt.)	Lime Production (lb/hr)	Sulfur Content of Flue Dust (%S wt.)	Flue Dust Production (lb/hr)	SO2 Emissions (lb/hr)

- No deviation occurred in this month.
- Deviation/s occurred in this month.

Deviation has been reported on:  
 Submitted by: \_\_\_\_\_  
 Title / Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 Compliance Data Section  
 and the Gary Department of Environmental Affairs**

**Part 70 Monthly Report**

Source Name: Carmeuse Lime, Inc.  
 Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Part 70 Permit No.: T089-6140-00112  
 Facility: Rotary Kiln #3 (EU-3)  
 Limit: 80 pounds of SO2 per hour

Time/ Date of Sample	Sulfur Content of Limestone (%S wt.)	Throughput of Limestone (lb/hr)	Sulfur Content of Coal (%S wt.)	Throughput of Coal (lb/hr)	Sulfur Content of Lime (%S wt.)	Lime Production (lb/hr)	Sulfur Content of Flue Dust (%S wt.)	Flue Dust Production (lb/hr)	SO2 Emissions (lb/hr)

- No deviation occurred in this month.
- Deviation/s occurred in this month.

Deviation has been reported on:  
 Submitted by: \_\_\_\_\_  
 Title / Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 Compliance Data Section  
 and the Gary Department of Environmental Affairs**

**Part 70 Monthly Report**

Source Name: Carmeuse Lime, Inc.  
 Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Part 70 Permit No.: T089-6140-00112  
 Facility: Rotary Kiln #4 (EU-4)  
 Limit: 80 pounds of SO2 per hour

Time/ Date of Sample	Sulfur Content of Limestone (%S wt.)	Throughput of Limestone (lb/hr)	Sulfur Content of Coal (%S wt.)	Throughput of Coal (lb/hr)	Sulfur Content of Lime (%S wt.)	Lime Production (lb/hr)	Sulfur Content of Flue Dust (%S wt.)	Flue Dust Production (lb/hr)	SO2 Emissions (lb/hr)

- 9 No deviation occurred in this month.
- 9 Deviation/s occurred in this month.

Deviation has been reported on:  
 Submitted by: \_\_\_\_\_  
 Title / Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 Compliance Data Section  
 and the Gary Department of Environmental Affairs**

**Part 70 Monthly Report**

Source Name: Carmeuse Lime, Inc.  
 Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Part 70 Permit No.: T089-6140-00112  
 Facility: Rotary Kiln #5 (EU-5)  
 Limit: 80 pounds of SO2 per hour

Time/ Date of Sample	Sulfur Content of Limestone (%S wt.)	Throughput of Limestone (lb/hr)	Sulfur Content of Coal (%S wt.)	Throughput of Coal (lb/hr)	Sulfur Content of Lime (%S wt.)	Lime Production (lb/hr)	Sulfur Content of Flue Dust (%S wt.)	Flue Dust Production (lb/hr)	SO2 Emissions (lb/hr)

- 9 No deviation occurred in this month.
- 9 Deviation/s occurred in this month.

Deviation has been reported on:  
 Submitted by: \_\_\_\_\_  
 Title / Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**Compliance Data Section**  
and the Gary Department of Environmental Affairs

**Part 70 Quarterly Report**

Source Name: Carmeuse Lime, Inc.  
Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
Part 70 Permit No.: T089-6140-00112  
Facilities: Rotary kilns EU-1 through EU-5  
Parameter: Lime produced  
Limit: The total amount of lime produced from rotary kilns EU-1 through EU-5 shall not exceed 999,990 tons per twelve consecutive month period with compliance determined at the end of each month.

YEAR:

Month	Lime Produced	Lime Produced	Lime Produced
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF AIR QUALITY  
 Compliance Data Section  
 and the Gary Department of Environmental Affairs**

**Part 70 Quarterly Report**

Source Name: Carmeuse Lime, Inc.  
 Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
 Part 70 Permit No.: T089-6140-00112  
 Facilities: Pugmills EU-18 and EU-19  
 Parameter: Lime processed  
 Limit: The total lime processed by pugmills EU-18 and EU-19 shall not exceed 268,000 tons per twelve consecutive month period with compliance determined at the end of each month.

YEAR:

Month	Lime Processed	Lime Processed	Lime Processed
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.  
 Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
 Title / Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**Compliance Data Section**  
and the Gary Department of Environmental Affairs

**PART 70 OPERATING PERMIT**  
**QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Carmeuse Lime, Inc.  
Source Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
Mailing Address: 1 North Carmeuse Drive, Gary, Indiana 46402  
Part 70 Permit No.: T089-6140-00112

Months: \_\_\_\_\_ to \_\_\_\_\_ Year: \_\_\_\_\_

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

**Permit Requirement** (specify permit condition #)

**Date of Deviation:**

**Duration of Deviation:**

**Number of Deviations:**

**Probable Cause of Deviation:**

**Response Steps Taken:**

<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

## Appendix A: Fugitive Dust Control Plan

CARMEUSE LIME, INC.  
1 NORTH CARMEUSE DRIVE  
GARY, INDIANA 46402

### 1.0 IMPLEMENTATION

- 1.1 All procedures described in this document will be implemented as defined within 326 IAC 6-1-11.1. Any circumstances delaying or modifying the application of any part of the program will require notification of the appropriate individuals listed under the personnel responsibilities.
- 1.2 The enclosed Daily Treatment Log will be completed under the supervision of the General Foreman.

### 2.0 PERSONNEL RESPONSIBILITIES

- 2.1 Plant Manager and General Foreman
  - 2.1.1 Ensure that supervisory personnel understand the plan procedures and that implementation is performed in a timely fashion.
  - 2.1.2 Review the daily record keeping forms to ensure the plant procedures are being performed as required
  - 2.1.3 When traveling throughout the plant, note whether the plant procedures have been implemented, and their effectiveness towards the control of fugitive emissions.
  - 2.1.4 Advise the Area Operations Manager of any plan implementation problems, proposed postponement, or proposed modification of plan implementation.
- 2.2 Supervisory Personnel
  - 2.2.1 Department supervisors, shift supervisors, and foremen will select and instruct the appropriate personnel who will implement the plan procedures.
  - 2.2.2 Review the daily record keeping forms prior to forwarding to the Plant Manager.
  - 2.2.3 Advise the Plant Manager or Production Superintendent of any problems with the fugitive dust operating plan.
- 2.3 Plant Personnel
  - 2.3.1 Will perform the appropriate assigned activity as required by the plan procedures.
  - 2.3.2 Will complete the record keeping forms with the appropriate information upon completion of any plan procedure.
  - 2.3.3 Will notify supervisory personnel of any fugitive dust emissions in the plant that require attention.
  - 2.3.4 Will notify supervisory personnel of the control effectiveness or lack therein of plan procedures.

### **3.0 COMPLIANCE DETERMINATION**

- 3.1 The plant supervisory personnel will review on a daily basis the plant areas that are subject to fugitive dust control needs and/or actions. Comments of daily reviews will be included as necessary on the Daily Treatment Log Sheet.
- 3.2 Review of record keeping information
- 3.3 Submit to the Indiana Department of Environmental Management a performance report on a quarterly basis identifying the dates and the number of times when specified control measures were not implemented as required

### **4.0 FACILITY DESCRIPTION**

The Buffington plant utilizes limestone as a feedstock which is fired in rotary kilns to produce lime products.

### **5.0 LOADING or UNLOADING of OPEN STOCKPILES and BULK MATERIALS**

#### **5.1 Transportation of Bulk Materials**

##### **5.1.1 Limestone**

Limestone is crushed, sized, and washed prior to shipment to the Buffington plant. Consequently, the amount of material less than 200 mesh (silt content) is less than 1%. This factor, in addition to the material containing approximately 3% moisture as received, helps eliminate fugitive emissions from occurring during bulk material transfer operations.

The limestone is shipped to the Buffington plant by lake boats. The lake boats are unloaded using adjustable height conveyors to minimize the drop distance of the stone thereby minimizing fugitive dust emissions. Moisture content causes aggregation of the less than 200 mesh material to the surface of the larger particles.

Any significant rainfall soaks the interior of the limestone stockpiles and drying is a very slow process. Conveyors and front-end loaders are used for both the loading and unloading of limestone from the stockpiles. Approximate annual throughput for the stockpiles is 1,800,000 tons.

##### **5.1.2 Fuel**

Fuel is received by truck and unloaded directly to the stockpile or to the below-grade hopper. A front-end loader moves the fuel to the aforementioned below-grade hopper.

The fuel silt content is approximately 5% by weight. This factor, in addition to the fuel having moisture content of approximately 9.5% as received, helps eliminate fugitive emissions from occurring during fuel transfer operations.

Any significant rainfall soaks the interior of the fuel stockpiles and drying is a very slow process. Approximate annual throughput for the stockpiles is 250,000 tons.

#### **5.2 Transportation of Bulk Lime and Kiln By-Product**

Both these materials are transported from the facility in haul trucks and rail cars which are not the property of Carmeuse Lime, Inc.. Open bed trucks are required to be equipped

with tarpaulins which cover the bed of the truck. Covering of the bed of the truck is performed by the respective truck operator prior to exiting the plant.

In addition to the open bodied haul trucks and rail cars, blower type trucks are used to haul lime and kiln by-product from the Buffington plant. Since these truck types are completely enclosed no tarpaulin covers are required.

Rail cars and trucks are loaded in the loadout areas, which are equipped with telescoping spouts that are lowered over the rail cars and trucks. The spouts are vented to a dust collector that filters the displaced air/dust from the rail cars and trucks as the material is loaded.

Cleaning of the wheels and bodies of the trucks is the responsibility of each truck operator. It is also the responsibility of the truck operator to maintain the body of the truck in good condition to ensure that material does not leak out during shipment. Truck wheel and body cleaning takes place at the loadout areas or at hatch stations.

The loadout area housekeeping and maintenance is a designated responsibility of the individual operator for each shift. The plant has a water truck permanently located at the site for use in cleaning plant roadways. The plant supervisor will ensure that the housekeeping procedures are followed.

The plant speed limit is 8 mph and it is strictly enforced as both a safety and fugitive dust control.

### 5.3 Outdoor Conveying

#### 5.3.1 Limestone

Limestone is transferred by either gravimetric feed or front-end loader to a below-grade hopper. The hopper feeds a covered conveyor system which transfers the limestone to enclosed storage silos. The moisture content of the limestone makes venting of the conveyor transfer points unnecessary.

#### 5.3.2 Lime

Transfer of lime product is by covered conveyor systems. Conveyor transfer points control particulate fugitive emissions via dust collectors.

#### 5.3.3 Material Collected by Kiln Baghouses

Materials from Kilns No. 1, 2, and 3 are pneumatically conveyed to an enclosed storage bin. Materials from Kilns No. 4 and 5 are transferred by enclosed screw conveyors and enclosed bucket elevators to an enclosed storage bin. Storage bins are equipped with dust collectors.

#### 5.3.4 Fuel

Fuel is transferred by either gravimetric feed or front-end loader to a below-grade hopper. The hopper feeds a covered conveyor system which transfers the fuel to an enclosed storage silo. The moisture content of the fuel makes venting of the conveyor transfer points unnecessary.

### 5.4 Paved Roads and Parking Areas

Primary roadways and parking areas at the Buffington plant are paved.

#### 5.4.1 Listing of Roadway Segments (All distances are approximate)

- 5.4.1.1 Plant Entry Segment – Seven hundred ninety (790) feet long and thirty (30) feet wide. Distance is from the entry onto plant property to the junction of the plant loop road.
- 5.4.1.2 Plant Loop Segment – One thousand seven hundred forty (1,740) feet long and twenty-five (25) feet wide. Includes the roadway route under the west product loadout area.
- 5.4.1.3 Under Kiln Segment – Two hundred fifty (250) feet long and twenty-five (25) feet wide.
- 5.4.1.4 Employee Parking Entry Road and Parking Lot Segment – Two hundred fifty five (255) feet long and twenty feet wide. The parking lot is three hundred ninety (390) feet long and two hundred seventy (270) feet wide.
- 5.4.1.5 Service Building Parking Lot Segment – One hundred seventy (170) feet long and forty two (42) feet wide.
- 5.4.1.6 East Product Loadout Segment – Four hundred eighty (480) feet long and twenty (20) feet wide.
- 5.4.1.7 Center Bay Loadout Segment – One hundred twenty (120) feet long and twenty (20) feet wide.

5.4.2 Vehicle Traffic Volume

The traffic volume on the plant roadways varies directly with lime production rates.

Approximate vehicular traffic volumes and mileage are estimated as follows:

Material Shipped	Vehicle Type	Number of Vehicle Trips per Year	Annual Vehicle Miles on Site
Lime	Trucks	23,010	11,505
Envirolime	Trucks	2,640	1,320
-	Plant Vehicles	1095	1,083
-	Employee Vehicles	24,455	3,000

- 5.4.3 Control Action -The active paved roadways will be watered and/or swept as needed except as specified in AP-42 on those days when precipitation exceeds 0.1 inch, or on those days when freezing conditions could create a safety hazard.

5.5 Unpaved Roads

- 5.5.1 Segment to Dockside Limestone Unload Location – This unpaved roadway is approximately one thousand four hundred (1,400) feet long and twenty (20) feet wide. The road is typically used once a day by a front-end loader traveling to the stockpile area. Occasionally, a plant pick-up truck will use the roadway.

- 5.5.2 Segment around limestone storage area – This unpaved roadway is approximately eight hundred forty (840) feet long and twenty (20) feet wide. Roadway length and activity fluctuates significantly with season. Use of this roadway is the same as that of the Dockside Limestone Unload Location.
- 5.5.3 Segment leading to and from the new scale on the southwest side of the plant from the kiln area is approximately two thousand two hundred (2200) feet long and twenty (20) feet wide.
- 5.5.4 Control Action – The active unpaved roadways will be watered as needed except on those days when precipitation exceeds 0.1 inch, or on those days when freezing conditions could create a safety hazard.
- 5.6 Unpaved Plant Areas
- 5.6.1 Area Inside the Plant Loop Paved Roadway Segment – The area beneath the kilns is approximately twelve thousand four hundred and ninety three (12,493) square feet.
- 5.6.2 Area North of Kiln Baghouses – This area is approximately twenty seven thousand (27,000) square feet. The area may be used for the transfer of “pugged” Envirolime and lime. Envirolime or lime is mixed with water (pugged) and transferred to truck for transport. Procedures call for pugged flue dust (high moisture content) to be stored in piles until transportation can be obtained
- 5.6.3 Control Action – The active unpaved areas will be watered as needed except as specified in AP-42 on those days when precipitation exceeds 0.1 inch, or on those days when freezing conditions could create a safety hazard.
- 5.7 Stockpiles
- 5.7.1 Limestone
- The limestone stockpiles are worked by section, with the bulk of the stock remaining undisturbed. Unloading operations from the lake boats to the dock area occur on an average of once per week for 8 hours each delivery during the months of April through December.
- The limestone typically retains a moisture content of approximately 3%. This moisture content effectively controls fugitive emissions from the stockpile.
- The limestone stockpile is not treated with chemical surfactants for quality control reasons. High purity, very low contaminant, lime products are required by our customers.
- The front-end loader used to work the stockpiles does not generate significant fugitive emissions due to the moisture content of the limestone. If conditions warrant, the water truck will be used to minimize fugitive dust generation.
- 5.7.2 Fuel
- The fuel stockpile is generally worked by section with the bulk of the stock remaining undisturbed. If conditions warrant, the water truck will be used to minimize fugitive dust generation in this area. The fuel supplied generally has a moisture content of eight percent.

## **6.0 CONDITIONS WHICH WILL PREVENT CONTROL MEASURES and PRACTICES from IMPLEMENTATION**

All equipment used to implement control measures identified in this plan have replacement components or substitutes that can be employed within a reasonable time frame.

## **7.0 FUGITIVE DUST EMISSIONS OBSERVATIONS**

Observations will be made on a monthly basis of the following activities:

- 7.1 The average instantaneous opacity of fugitive particulate emissions from a paved and unpaved roads shall not exceed ten percent (10%). The average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:

- (A) The first shall be taken at the time of emission generation.
- (B) The second shall be taken five (5) seconds later.
- (C) The third shall be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

- 7.2 The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%). The average instantaneous opacity shall consist of the average of three (3) opacity readings taken five (5) seconds, ten (10) seconds, and fifteen (15) seconds after the end of one (1) batch loading or unloading operation. The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume.

- 7.3 The opacity due to wind erosion from storage piles and exposed areas shall be determined using 40 CFR 60, Appendix A, Method 9, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand approximately fifteen (15) feet from the plume and at approximately right angles to the plume. The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.

- 7.4 The opacity of fugitive particulate emissions from the in-plant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%). Compliance with this limitation shall be determined by the average of three (3) opacity readings taken at five (5) second intervals. The three (3) opacity readings shall be taken as follows:

- (A) The first shall be taken at the time of emission generation.
- (B) The second shall be taken five (5) seconds later.
- (C) The third shall be taken five (5) seconds later or ten (10) seconds after the first.

The three (3) readings shall be taken at the point of maximum opacity. The observer shall stand at least fifteen (15) feet from the plume approximately and at right angles to the

plume. Each reading shall be taken approximately four (4) feet above the surface of the roadway or parking area.

- 7.5 Material transported by truck or rail that is enclosed and covered is considered in compliance with the in-plant transportation requirement of zero (0) percent opacity.

Appendix A  
 DAILY TREATMENT LOG

Item / Day of Week	SUN	MON	TUE	WED	THU	FRI	SAT	Comments
Date (XX/XX/XX):								
# of Gallons Applied:								
Application Rate (1):								
Method of Application (2):								
<b>Treatment Area - Paved Roads</b>								
Plant Entry Segment								
Plant Loop Segment								
Under Kilns Segment								
Employee Parking Segment								
Service Building Lot Segment								
East Product Loadout Segment								
Center Bay Loadout Area								
West Loadout Area								
<b>Treatment Area - Unpaved Roads</b>								
Segment to Dockside Limestone Pile								
Segment Around East Limestone Pile								
<b>Treatment Area - Other Unpaved Roads</b>								
Area Inside Plant Loop Paved Roadway								
Area North of Kiln Baghouses								
Railroad Tracks								
Other								
<b>Weather Conditions</b>								
C = Clear; S = Snow; R = Rain; L = Sleet/Hail; O = Overcast								
Wind Speed (mph)								
Wind Direction								
Temperature (deg F)								

(1) Application Rate: H = Heavy, M = Medium; L = Light;

(2) Method of Application: W = Water Truck, N = Not Necessary (wet/snow cover), U = Operator Unavailable

**Indiana Department of Environmental Management  
Office of Air Quality  
and  
Gary Department of Environmental Affairs**

**Addendum to the Technical Support Document (TSD)  
for a Significant Permit Modification to a Part 70 Operating Permit**

**Source Background and Description**

Source Name:	Carmeuse Lime, Inc.
Source Location:	1 North Carmeuse Drive, Gary Indiana 46402
County:	Lake
SIC Code:	3274
Significant Permit Modification No.:	089-23750-00112
Permit Reviewer:	ERG/ST

The Office of Air Quality (OAQ) had a notice published in the Northwest Indiana Times, Munster, Indiana on February 16, 2007, and in the Gary Post Tribune on February 19, 2007, stating that Carmeuse Lime, Inc. had applied for a Significant Permit Modification to their Part 70 Operating Permit. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On March 20, 2007, Carmeuse Lime, Inc. submitted comments on the proposed Significant Permit Modification. The summary of the comments is as follows. Bolded language has been added, the language with a line through it has been deleted. The Table of Contents has been modified, if applicable, to reflect these changes.

**Comment 1:** Condition C.17 of the draft permit indicates that Carmeuse is subject to Triennial Reporting pursuant to 326 IAC 2-6-3(b)(1). This is incorrect, Carmeuse is subject to Annual Reporting pursuant to 326 IAC 2-6-3(a)(1)(B)(i), as Carmeuse has the potential to emit greater than 250 tons per year of particulate matter less than or equal to 10 micrometers (PM10).

**Response to Comment 1:** This source is located in Lake or Porter County and has a potential to emit of NOx greater than 25 tons per year but less than 2,500 tons of NOx per year and the potential to emit of PM10 greater than 250 tons per year. Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall annually submit by July 1 an emission statement covering the previous calendar year. The permit will be changed as follows:

**C.17** Emission Statement ~~[326 IAC 2-7-5(3)(C)(iii)]~~~~[326 IAC 2-7-5(7)]~~~~[326 IAC 2-7-19(c)]~~~~[326 IAC 2-6-~~

(a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(a)(1), ~~starting in 2004 and every three (3) years thereafter,~~ the Permittee shall submit by July 1 **of each year** an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
 Technical Support and Modeling Section, Office of Air Quality  
 100 North Senate Avenue  
 Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs  
 839 Broadway, 2nd Floor NE  
 Gary, Indiana 46402

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

...

**Comment 2:** Section D.1 and D.3 specify requirements for emission units that are, or potentially could be subject to the requirements of 40 CFR 63 Subpart AAAAA. The requirements of 40 CFR 63, Subpart AAAAA have been incorporated into the draft Permit in Section E.1. Carmeuse proposes that conditions be incorporated into Sections D.1 and D.3 to refer to the limitations, testing, monitoring, recordkeeping and reporting requirements currently in Section E.1 of the draft permit consistent with other permits recently issued by IDEM which incorporate NESHAP requirements.

**Response to Comment 2:** IDEM has arranged the permit such that Section E.1 deals primarily with the emission units subject to the NESHAP. No changes have been made as a result of this comment.

**Comment 3:** Condition E.1.3 lists initial compliance deadlines specified in 40 CFR 63, Subpart AAAAA. Carmeuse proposes that IDEM add data to this table indicating completion of initial compliance steps. This should be done to eliminate confusion regarding compliance dates that have already passed. Please revise the permit as follows:

E.1.3 One Time Deadlines Relating to National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants Requirements [40 CFR Part 63, Subpart AAAAA]

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline	Date Permittee Complied with the Requirement
Notification of Intent to Conduct Performance Test	40 CFR 63.7(b)(1)	lime kilns	11/6/06	<b>7/21/06 and 9/27/06</b>
Initial Performance Test	40 CFR 63.7083(b) 40 CFR 63.7110(a)	lime kilns	1/5/07	<b>9/6/06, 9/7/06, 9/11/06, 12/6/06, and 1/3/07</b>
Notification of Compliance Status	40 CFR 63.9(h)(2)(ii)	lime kilns, PSH	3/5/07	<b>12/1/06</b>

**Response to Comment 3:** The information on compliance status with a particular permit condition is normally documented in the TSD. IDEM does not indicate compliance status in the permit and prefers that the permit contain only the actual requirements. No changes have been made as a result of this comment.

Upon further review, the OAQ has decided to make the following revisions to the permit (bolded language has been added, the language with a line through it has been deleted). The Table of Contents has been modified, if applicable, to reflect these changes.

1. The language in Conditions D.1.12 and D.1.13 has been revised to clarify the requirements for visible emissions notations and parametric monitoring requirements. The permit has been changed as follows:

#### D.1.12 Record Keeping Requirements

---

- (a) To document compliance with Condition D.1.3 the Permittee shall maintain records of the amount of lime produced by kilns EU-1 through EU-5.
- (b) To document compliance with Condition D.1.7, the Permittee shall maintain records of the sampling and analysis of raw materials, product, and by-products, and the mass balance equations used to demonstrate compliance with Condition D.1.2.
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain **a daily** records of:
  - (1) All opacity measurements **of the lime kiln stack exhausts (S-1 through S-5)**, evaluations, calibration checks, adjustments, and maintenance performed on the continuous monitoring system; or
  - (2) The once per day visible emission notations **of the lime kiln stack exhausts (S-1 through S-5), as** required by Condition D.1.8. **The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of opacity measurement or visible emission notation, (i.e. the process did not operate that day).**
- (d) To document compliance with Condition D.1.9, the Permittee shall maintain **a daily** records of the ~~once per day~~ pressure drop **across the baghouses used in conjunction with kilns EU-1 through EU-5, as** required by Condition D.1.9. **The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).**
- (e) To document compliance with Condition D.1.10, the Permittee shall maintain records of the results of the inspections.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.2.13 Record Keeping Requirements

---

- a) To document compliance with Condition D.2.1(c), the Permittee shall maintain records of the total amount of lime processed by facilities EU-18 and EU-19.
- (b) To document compliance with Condition D.2.7, the Permittee shall maintain **a daily** records of the ~~once per day~~ visible emission notations **of the stack exhaust from facilities EU-18, EU-19, EU-25, EU-17, EU-16, EU-15, EU-14, EU-6, EU-24, EU-28, EU-7, EU-8, EU-11, EU-12, EU-13, EU-32, EU-41 and EU-43, as** required by Condition D.2.7. **The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation, (i.e. the process did not operate that day).**
- (c) To document compliance with Condition D.2.8, the Permittee shall maintain **a daily** records of the ~~once per day~~ pressure drop **across the baghouses controlling facilities EU-18, EU-19, EU-25, EU-17, EU-16, EU-15, EU-14, EU-6, EU-24, EU-28, EU-7, EU-8, EU-11, EU-12, EU-13, and EU-32, as** required by Condition D.2.8. **The Permittee shall**

**include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading, (i.e. the process did not operate that day).**

- (d) To document compliance with Condition D.2.9, the Permittee shall maintain records of the results of the inspections.
- (e) To document compliance with Condition D.2.11, the Permittee shall maintain a **daily** records of the ~~once per day~~ pressure drop and flow rate **of the wet scrubbers (CE-19 and CE-20) controlling the Pugmills (EU-18 and EU-19), as** required by Condition D.2.11. **The Permittee shall include in its daily record when a pressure drop and flow rate reading is not taken and the reason for the lack of a pressure drop and flow rate reading, (i.e. the process did not operate that day).**
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

2. The source address has been changed throughout the permit as follows:

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary lime manufacturing plant.

Source Address:	<del>One</del> 1 North Carmeuse Drive, Gary, Indiana 46402
Mailing Address:	<del>One</del> 1 North Carmeuse Drive, Gary, Indiana 46402
Source Phone Number:	773-978-5349
SIC Code:	3274
County Location:	Lake
Source Location Status:	Nonattainment for PM <sub>2.5</sub> and 8-hour ozone standards Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD and Emission Offset Rules Major Source under Section 112 of the Clean Air Act 1 of 28 Source Categories

**Indiana Department of Environmental Management  
Office of Air Quality  
and  
Gary Department of Environmental Affairs**

**Technical Support Document (TSD) for a  
Significant Permit Modification  
to a Part 70 Operating Permit**

**Source Description and Location**

Source Name:	Carmeuse Lime, Inc.
Source Location:	1 North Carmeuse Drive, Gary Indiana 46402
County:	Lake
SIC Code:	3274
Operation Permit No.:	T 089-6140-00112
Operation Permit Issuance Date:	June 29, 2004
Significant Permit Modification No.:	089-23750-00112
Permit Reviewer:	ERG/ST

The Office of Air Quality (OAQ) has received a permit modification application from Carmeuse Lime, Inc. relating to the operation of a stationary lime manufacturing plant.

**Explanation of Modification**

The modification consists of adding the requirements of the National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants (40 CFR 63, Subpart AAAAA) to the source's permit, removing emission unit EU-9 from the listing of emission units, updating descriptions of existing emissions units, and changing the control devices on the pugmills from baghouses to wet scrubbers. The latter changes do not result in any physical changes to the facilities or in any changes in potential to emit from these emission units. Other conditions in the permit will be updated to reflect changes in the applicable Indiana statutes since the source's Title V permit was issued on June 29, 2004.

**Justification for the Modification**

The Part 70 Operating permit is being modified through a Part 70 Significant Permit Modification. This modification is being performed pursuant to 326 IAC 2-7-12(d) as it involves significant changes to the existing permit and conditions. A Significant Source Modification under 326 IAC 2-7-10.5 is not required because there are no new emission units proposed for construction.

**Federal Rule Applicability Determination**

This source is subject to the National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants (40 CFR 63, Subpart AAAAA, 326 IAC 20-91). The compliance date for this NESHAP is January 5, 2007. This source manufactures lime and is a major source of hazardous air pollutants. The affected facilities under 40 CFR 63, Subpart AAAAA are the five (5) rotary kilns (EU1 through EU5) and all processed stone handling (PSH) operations, including all equipment associated with PSH operations beginning at the processed stone storage bin(s) or open storage pile(s) and ending where the processed stone is fed into the kiln. Affected PSH operations include man-made processed stone storage bins (but not open processed stone storage piles), conveying system transfer points, bulk loading or unloading systems, screening operations, surge bins, bucket elevators, and belt conveyors. Any open storage piles, coal storage piles, or coal handling facilities

are specifically excluded from the requirements of 40 CFR 63, Subpart AAAAA.

The rotary kilns (EU1 - EU5) and the affected PSH operations are subject to the following portions of 40 CFR 63, Subpart AAAAA. Non applicable portions of the NESHAP will not be included in the permit.

40 CFR 63.7081  
40 CFR 63.7082  
40 CFR 63.7083(a)(1),(b), (d)  
40 CFR 63.7090  
40 CFR 63.7100  
40 CFR 63.7110(a), (d), (e)  
40 CFR 63.7111  
40 CFR 63.7112  
40 CFR 63.7113  
40 CFR 63.7114  
40 CFR 63.7120  
40 CFR 63.7121  
40 CFR 63.7130  
40 CFR 63.7131  
40 CFR 63.7132  
40 CFR 63.7133  
40 CFR 63.7140  
40 CFR 63.7141  
40 CFR 63.7143  
40 CFR 63, Subpart AAAAA, Tables 1 - 7

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart AAAAA.

### Recommendation

The staff recommends to the Commissioner that the Significant Permit Modification be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on October 11, 2006.

### Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T089-6140-00112, issued on June 29, 2004. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

1. Section A.2 has been updated to show changes in emission unit descriptions and to indicate the applicability of 40 CFR 63, Subpart AAAAA to the emissions units at the source.

#### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

#### Lime Production

- (a) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-1; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213

- MMBtu/hr; emissions controlled by baghouse CE-1; exhausting to stacks S-1A through S-1F. **Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.**
- (b) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-2; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-2; exhausting to stacks S-2A through S-2F. **Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.**
  - (c) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-3; constructed in 1968; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-3; exhausting to stacks S-3A through S-3F. **Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.**
  - (d) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-4; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-4; exhausting to stacks S-4A through S-4F. **Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.**
  - (e) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-5; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-5; exhausting to stacks S-5A through S-5F. **Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.**

#### Lime Processing and Handling

- (f) One (1) Lime Grinder **Handling System**; identified as EU-15; constructed in 1972; a maximum capacity of 80 tons of lime per hour; emissions controlled by baghouse CE-6 (**ALG400**); exhausting to stack S-6.
- (g) One (1) Grinding Mill #1; identified as EU-13; constructed in 1972; a maximum capacity of 40 tons of lime per hour; emissions controlled by baghouse CE-8 (**ALG450**); exhausting to stack S-8.
- (h) One (1) Grinding Mill #2; identified as EU-12; constructed in 1972; a maximum capacity of 40 tons of lime per hour; emissions controlled by baghouse CE-7 (**ALG460**); exhausting to stack S-7.
- (i) One (1) Pugmill #1; identified as EU-18; constructed in 1985; a maximum capacity of 15.14 tons of lime per hour; emissions controlled by ~~baghouse~~ **pugmill scrubber** CE-19; exhausting to stacks S-19.
- (j) One (1) Pugmill # 2; identified as EU-19; constructed in 1985; a maximum capacity of 15.14 tons of lime per hour; emissions controlled by ~~baghouse~~ **pugmill scrubber** CE-20; exhausting to stack S-20.
- (k) One (1) Lime Handling System #1 (**302 Belt**); identified as EU-6; constructed in 1972; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-14 (**ALG310**); exhausting to stack S-14.

- (l) One (1) Lime Handling System #2 (**301 Belt**); identified as EU-7; constructed in 1966; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-15 (**ALG300**); exhausting to stack S-15.

...

#### Lime Storage and Loadout

- (o) One (1) Lime Storage System; identified as EU-24; constructed prior to 1977; consisting of six lime storage tanks; emissions controlled by baghouse CE-14 (**ALG310**); exhausting to stack S-14.
- (p) One (1) Lime Storage System; identified as EU-14; constructed prior to 1977; consisting of eight lime storage tanks; emissions controlled by baghouse CE-6 (**ALG400**); exhausting to stack S-6.
- (q) One (1) Truck & Rail Lime Loadout #3 (**Truck Loadout Rail Bay**); identified as EU-8; constructed in 1972; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-13; exhausting to stack S-13.
- ~~(r) One (1) Truck Lime Loadout #4; identified as EU-9; constructed in 1994; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-17; exhausting to stack S-17.~~
- (s r) One (1) Truck Flue Dust Loadout #2; identified as EU-16; constructed in 1966; a maximum capacity of 28 tons of dust per hour; emissions controlled by baghouse CE-9 (**AKG450**); exhausting to stack S-9.
- (t s) One (1) Truck Flue Dust Loadout #1; identified as EU-17; constructed in 1966; a maximum capacity of 32 tons of dust per hour; emissions controlled by baghouse CE-10 (**AKG141**); exhausting to stack S-10.
- (u t) One (1) Rail Lime Loadout #2 (**L702**); identified as EU-28; constructed in 1972; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse ~~CE-44~~ **CE-13 (ALG320)**; exhausting to stack S-44 **S-13**.
- (v u) One (1) Truck Loadout Station (**Old Side Pulverized and Fines Loadout**); identified as EU-11; constructed prior to 1977; a maximum capacity of ~~300~~ **200** tons of lime per hour; emissions controlled by baghouse CE-25 (**ALG600**); exhausting to stack S-25.
- (w v) One (1) Rail Re-Screen Loadout #2 (**L602 Re-Screen**); identified as EU-25; constructed in 1996; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-25 (**ALG600**); exhausting to stack S-25.
- (x w) One (1) Truck Transfer Station Reclaim Hopper; identified as EU-32; constructed in 1972 and modified in 2003; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-32 (**ALG606CA**); exhausting to stack S-32.

#### Raw Material Storage and Handling (Fugitive)

- (y x) One (1) Coal Storage Pile; identified as EU-22; a capacity of greater than 3.5 acres; a source of fugitive emissions.
- (z y) Two (2) Limestone Storage Piles; identified as EU-23 and EU-29; each a capacity of greater than 9.5 acres; a source of fugitive emissions.
- (aa z) Coal Unloading and Processing operations; identified as EU-30; consisting of truck and rail unloading and assorted conveyors; a source of fugitive emissions.

(~~bb~~ **aa**) Limestone Unloading and Processing operations; identified as EU-31; consisting of barge **or boat** unloading and assorted conveyors; a source of fugitive emissions.

2. The rule citations in Section A.3 have been updated as follows:

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [~~326 IAC 2-7-4(c)~~][326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Vehicular traffic on paved and unpaved roads, and parking lots with public access. [326 IAC 6-4-1] [~~326 IAC 6-1-11.4~~] [**326 IAC 6.8-10**]
- (b) Activities with emissions equal to or less than the following thresholds: 5 lb/hr or 25 lb/day PM; 5 lb/hr or 25 lb/day SO<sub>2</sub>; 5 lb/hr or 25 lb/day NO<sub>x</sub>; 3 lb/hr or 15 lb/day VOC; 0.6 tons per year Pb; 1.0 ton/yr of a single HAP, or 2.5 ton/yr of any combination of HAPs: Assorted covered limestone conveyors; [~~326 IAC 6-4-2~~] [**326 IAC 6.8-1-2**]
- (c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour: Two (2) boilers with heat input capacities of 0.42 and 0.035 MMBtu per hour. [~~326 IAC 6-1-2(b)(3)~~] [**326 IAC 6.8-1-2(b)(3)**]

3. Section D.1 has been updated to show changes in emission unit descriptions and to indicate the applicability of 40 CFR 63, Subpart AAAAAA to the emissions units at the source.

## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

#### Lime Production

- (a) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-1; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-1; exhausting to stacks S-1A through S-1F. **Under 40 CFR Part 63, Subpart AAAAAA, this is considered an existing affected facility.**
- (b) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-2; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-2; exhausting to stacks S-2A through S-2F. **Under 40 CFR Part 63, Subpart AAAAAA, this is considered an existing affected facility.**
- (c) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-3; constructed in 1968; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-3; exhausting to stacks S-3A through S-3F. **Under 40 CFR Part 63, Subpart AAAAAA, this is considered an existing affected facility.**
- (d) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-4; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-4; exhausting to stacks S-4A through S-4F. **Under 40 CFR Part 63, Subpart AAAAAA, this is considered an existing affected facility.**
- (e) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-5; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr;

emissions controlled by baghouse CE-5; exhausting to stacks S-5A through S-5F. **Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

~~D.1.1~~ **General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]**

- ~~(a)~~ The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source except where otherwise specified in Table 8 to 40 CFR Part 63, Subpart AAAAA. The Permittee shall comply with these requirements on and after January 5, 2004.
- ~~(b)~~ Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.

~~D.1.2~~ **National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants [40 CFR Part 63, Subpart AAAAA]**

- ~~(a)~~ The affected source, the lime manufacturing plant, is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Lime Manufacturing plants, (40 CFR Part 63, Subpart AAAAA). The affected source must comply with this rule on and after January 5, 2007. Pursuant to 40 CFR Part 63, Subpart AAAAA, the Permittee shall comply with the applicable emission limitations for the existing affected lime manufacturing plant, and shall complete all applicable performance tests no later than January 5, 2007.
- ~~(b)~~ Kilns EU-1 through EU-5 (along with the other facilities identified in Section D.2) comprise the affected source that is subject to 40 CFR Part 63, Subpart AAAAA.
- ~~(c)~~ The definitions of 40 CFR Part 63, Subpart AAAAA (at 40 CFR 63.7143) are applicable to the affected source.

~~D.1.3~~ **D.1.1 Lake County PM<sub>10</sub> Emission Requirements [326 IAC 6.8-2-22][326 IAC 6.8-8]**

~~D.1.4~~ **D.1.2 Lake County SO<sub>2</sub> Emission Limitations [326 IAC 7-4.1-6]**

~~D.1.5~~ **D.1.3 Volatile Organic Compounds (VOC) [326 IAC 8-7]**

~~D.1.6~~ **D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

~~D.1.7~~ **D.1.5 Particulate Control**

- ~~(a)~~ In order to comply with Condition ~~D.1.2~~ **D.1.1**, the baghouses for particulate control shall be in operation and control particulate emissions from kilns EU-1 through EU-5 at all times those respective facilities are in operation.

...

~~D.1.8~~ **D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]**

~~D.1.9~~ **D.1.7 SO<sub>2</sub> Emissions [326 IAC 7-4.1-2][326 IAC 3-7][326 IAC 2-7-6]**

Pursuant to 326 IAC 7-4.1-2 and 326 IAC 2-7-6, the Permittee shall demonstrate compliance with the SO<sub>2</sub> limits in Condition ~~D.1.3~~ **D.1.2** using one of the following options:

...

~~D.1.10~~ **D.1.8 Opacity Monitoring / Visible Emission Monitoring [326 IAC 6.8-8-5]**

~~D.1.11 D.1.9~~ Monitoring for Baghouses

---

~~D.1.12 D.1.10~~ Baghouse Inspections [326 IAC 6.8-8-7]

---

~~D.1.13 D.1.11~~ Broken or Failed Bag Detection

---

~~D.1.14 National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants - Reporting Requirements [40 CFR Part 63, Subpart AAAAA]~~

---

- ~~(a) Pursuant to 40 CFR 63.7130, the Permittee shall submit all of the notifications in 40 CFR 63.6(h)(4) and (5); 63.7(b) and (c); 63.8(e); (f)(4) and (6); and 63.9 (a) through (j) that apply to the affected source and chosen compliance method, by the dates specified. These notifications include but are not limited to the following:~~
- ~~(1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) no later than May 5, 2004.~~
  - ~~(2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7130(d).~~
  - ~~(3) If required to conduct a performance test, design evaluation, opacity observation, visible emissions observation, or other initial compliance demonstration as specified in Table 3 or 4 to 40 CFR 63, Subpart AAAAA, a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 63.7130(e). The Notification of Compliance Status must be submitted:
    - ~~(A) Before the close of business on the 30th calendar day following completion of the initial compliance demonstration for each initial compliance demonstration required in Table 3 to 40 CFR 63, Subpart AAAAA, that does not include a performance test; and~~
    - ~~(B) Before the close of business on the 60th calendar day following the completion of the performance test according to the requirement specified in 40 CFR 63.10(d)(2) for each initial compliance demonstration required in Table 5 to 40 CFR Part 63, Subpart AAAAA that includes a performance test conducted according to the requirements in Table 4 to 40 CFR 63, Subpart AAAAA.~~~~
  - ~~(4) If required to conduct opacity or visible emissions observations as required by Table 4 to 40 CFR 63 Subpart AAAAA, the anticipated date for conducting the opacity or visible emission observations specified in 40 CFR 63.6(h)(5) in accordance with the appropriate schedule specified in 40 CFR 63.9(f) as required by 40 CFR 63.7130(a).~~
- ~~(b) The notifications required by paragraph (a) shall be submitted to:~~

~~Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
400 North Senate Avenue  
Indianapolis, Indiana 46204-2251~~

~~and~~

~~United States Environmental Protection Agency, Region V  
Director, Air and Radiation Division  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590~~

and

Gary Department of Environmental Affairs  
839 Broadway  
Gary, Indiana 46402

The notifications require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

~~D.1.15 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12][326 IAC 2-7-5]~~

~~The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information regarding which compliance option or options will be chosen in the Part 70 permit.~~

- ~~(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR Part 63, Subpart AAAAA, a description of the affected source and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.~~
- ~~(b) The significant permit modification application shall be submitted no later than April 5, 2006.~~
- ~~(c) The significant permit modification application shall be submitted to:~~

~~Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Gary Department of Environmental Affairs  
839 Broadway  
Gary, Indiana 46402~~

~~D.1.16~~ **D.1.12 Record Keeping Requirements**

- ~~(a) To document compliance with Condition ~~D.1.5~~ **D.1.3** the Permittee shall maintain records of the amount of lime produced by kilns EU-1 through EU-5.~~
- ~~(b) To document compliance with Condition ~~D.1.9~~ **D.1.7**, the Permittee shall maintain records of the sampling and analysis of raw materials, product, and by-products, and the mass balance equations used to demonstrate compliance with Condition ~~D.1.3~~ **D.1.2**.~~
- ~~(c) To document compliance with Condition ~~D.1.10~~ **D.1.8**, the Permittee shall maintain records of:~~
  - ~~(1) All opacity measurements, evaluations, calibration checks, adjustments, and maintenance performed on the continuous monitoring system; or~~
  - ~~(2) The once per day visible emission notations required by Condition ~~D.1.10~~ **D.1.8**.~~
- ~~(d) To document compliance with Condition ~~D.1.14~~ **D.1.9**, the Permittee shall maintain records of the once per day pressure drop required by Condition ~~D.1.14~~ **D.1.9**.~~
- ~~(e) To document compliance with Condition ~~D.1.12~~ **D.1.10**, the Permittee shall maintain records of the results of the inspections.~~

- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

~~D.1.17~~ **D.1.13** Reporting Requirements

---

- (a) A quarterly summary of the information to document compliance with Condition ~~D.1.5~~ **D.1.3** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the three (3) month period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
  - (b) A quarterly summary of the information to document compliance with Condition ~~D.1.9~~ **D.1.7** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the three (3) month period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
4. Section D.2 has been updated to show changes in emission unit descriptions, remove the requirements of 40 CFR 63, Subpart AAAAA, and add parametric monitoring requirements for the pugmill scrubbers, as follows:

**SECTION D.2 FACILITY OPERATION CONDITIONS**

Facility Description [326 IAC 2-7-5(15)]:
<b>Lime Processing and Handling</b>
(f) One (1) Lime Grinder <b>Handling System</b> ; identified as EU-15; constructed in 1972; a maximum capacity of 80 tons of lime per hour; emissions controlled by baghouse CE-6 ( <b>ALG400</b> ); exhausting to stack S-6.
(g) One (1) Grinding Mill #1; identified as EU-13; constructed in 1972; a maximum capacity of 40 tons of lime per hour; emissions controlled by baghouse CE-8 ( <b>ALG450</b> ); exhausting to stack S-8.
(h) One (1) Grinding Mill #2; identified as EU-12; constructed in 1972; a maximum capacity of 40 tons of lime per hour; emissions controlled by baghouse CE-7 ( <b>ALG460</b> ); exhausting to stack S-7.
(i) One (1) Pugmill #1; identified as EU-18; constructed in 1985; a maximum capacity of 15.14 tons of lime per hour; emissions controlled by <del>baghouse</del> <b>pugmill scrubber</b> CE-19; exhausting to stacks S-19.
(j) One (1) Pugmill # 2; identified as EU-19; constructed in 1985; a maximum capacity of 15.14 tons of lime per hour; emissions controlled by <del>baghouse</del> <b>pugmill scrubber</b> CE-20; exhausting to stack S-20.
(k) One (1) Lime Handling System #1 ( <b>302 Belt</b> ); identified as EU-6; constructed in 1972; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-14 ( <b>ALG310</b> ); exhausting to stack S-14.
(l) One (1) Lime Handling System #2 ( <b>301 Belt</b> ); identified as EU-7; constructed in 1966; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-15 ( <b>ALG300</b> ); exhausting to stack S-15.
...

### Lime Storage and Loadout

- (o) One (1) Lime Storage System; identified as EU-24; constructed prior to 1977; consisting of six lime storage tanks; emissions controlled by baghouse CE-14 (**ALG310**); exhausting to stack S-14.
- (p) One (1) Lime Storage System; identified as EU-14; constructed prior to 1977; consisting of eight lime storage tanks; emissions controlled by baghouse CE-6 (**ALG400**); exhausting to stack S-6.
- (q) One (1) Truck & Rail Lime Loadout #3 (**Truck Loadout Rail Bay**); identified as EU-8; constructed in 1972; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-13; exhausting to stack S-13.
- ~~(r) One (1) Truck Lime Loadout #4; identified as EU-9; constructed in 1994; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-17; exhausting to stack S-17.~~
- (s r) One (1) Truck Flue Dust Loadout #2; identified as EU-16; constructed in 1966; a maximum capacity of 28 tons of dust per hour; emissions controlled by baghouse CE-9 (**AKG450**); exhausting to stack S-9.
- (t s) One (1) Truck Flue Dust Loadout #1; identified as EU-17; constructed in 1966; a maximum capacity of 32 tons of dust per hour; emissions controlled by baghouse CE-10 (**AKG141**); exhausting to stack S-10.
- (u t) One (1) Rail Lime Loadout #2 (**L702**); identified as EU-28; constructed in 1972; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse ~~CE-44~~ **CE-13 (ALG320)**; exhausting to stack S-44 **S-13**.
- (v-u) One (1) Truck Loadout Station (**Old Side Pulverized and Fines Loadout**); identified as EU-11; constructed prior to 1977; a maximum capacity of ~~300~~ **200** tons of lime per hour; emissions controlled by baghouse CE-25 (**ALG600**); exhausting to stack S-25.
- (w v) One (1) Rail Re-Screen Loadout #2 (**L602 Re-Screen**); identified as EU-25; constructed in 1996; a maximum capacity of 200 tons of lime per hour; emissions controlled by baghouse CE-25 (**ALG600**); exhausting to stack S-25.
- (x w) One (1) Truck Transfer Station Reclaim Hopper; identified as EU-32; constructed in 1972 and modified in 2003; a maximum capacity of 100 tons of lime per hour; emissions controlled by baghouse CE-32 (**ALG606CA**); exhausting to stack S-32.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### ~~D.2.1 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]~~

- ~~(a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source except where otherwise specified in Table 8 to 40 CFR Part 63, Subpart AAAAA. The Permittee shall comply with these requirements on and after January 5, 2004.~~
- ~~(b) Since the applicable requirements associated with the compliance options are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition.~~

#### ~~D.2.2 National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants [40 CFR Part 63, Subpart AAAAA]~~

- (a) ~~The affected source, the lime manufacturing plant, is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Lime Manufacturing plants, (40 CFR Part 63, Subpart AAAAA). The affected source must comply with this rule on and after January 5, 2007. Pursuant to 40 CFR Part 63, Subpart AAAAA, the Permittee shall comply with the applicable emission limitations for the existing affected lime manufacturing plant, and shall complete all applicable performance tests no later than January 5, 2007.~~
- (b) ~~All of the facilities listed in this section (along with the other facilities identified in Section D.1) comprise the affected source that is subject to 40 CFR Part 63, Subpart AAAAA.~~
- (c) ~~The definitions of 40 CFR Part 63, Subpart AAAAA (at 40 CFR 63.7143) are applicable to the affected source.~~

---

~~D.2.3~~ **D.2.1** Prevention of Significant Deterioration (PSD) and Emission Offset (EO) - Particulate [326 IAC 2-2] [326 IAC 2-3]

---

~~D.2.4~~ **D.2.2** Particulate Matter Emissions [326 IAC 6.8-1-2]

---

~~D.2.5~~ **D.2.3** Lake County PM<sub>10</sub> Emission Requirements [326 IAC 6.8-2-22][326 IAC 6.8-8]

---

~~D.2.6~~ **D.2.4** Preventative Maintenance Plan [326 IAC 2-7-5(13)]

---

~~D.2.7~~ **D.2.5** Particulate Control

---

- (a) In order to comply with Conditions D.2.1, D.2.2, **and** D.2.3, ~~and D.2.4~~, the baghouses, **scrubbers**, and bin vent filters for particulate control shall be in operation and control particulate emissions from all facilities listed in this section at all times those respective facilities are in operation.
- ...

~~D.2.8~~ **D.2.6** Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

---

~~D.2.9~~ **D.2.7** Visible Emissions Notations [40 CFR 64]

---

- (a) Visible emission notations of the stack exhaust from facilities ~~EU-9~~, EU-18, EU-19, EU-25, EU-17, EU-16, EU-15, EU-14, EU-6, EU-24, EU-28, EU-7, EU-8, EU-11, EU-12, EU-13, EU-32, EU-41 and EU-43 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- ...

~~D.2.10~~ **D.2.8** Monitoring for Baghouses

---

~~D.2.11~~ **D.2.9** Baghouse Inspections [326 IAC 6.8-8-7]

---

~~D.2.12~~ **D.2.10** Broken or Failed Bag Detection

---

**D.2.11 Parametric Monitoring**

---

The Permittee shall monitor and record the pressure drop and flow rate of the wet scrubbers (CE-19 and CE-20) controlling the Pugmills (EU-18 and EU-19) at least once per day when the associated process is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 1.5 and 6.5 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. When for any one reading, the flow rate of any of the scrubbers is less than the minimum of 7.0 gallons per minute, or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pressure reading that is outside the above mention range or a flow rate that is below the above mentioned minimum is not a deviation from this

permit. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

The instruments used for determining the pressure drop and flow rate shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

#### D.2.12 Scrubber Malfunction Detection

In the event that a scrubber malfunction has been observed, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### D.2.13 National Emissions Standards for Hazardous Air Pollutants for Lime Manufacturing Plants - Reporting Requirements [40 CFR Part 63, Subpart AAAAA]

- (a) Pursuant to 40 CFR 63.7130, the Permittee shall submit all of the notifications in 40 CFR 63.6(h)(4) and (5); 63.7(b) and (c); 63.8(e); (f)(4) and (6); and 63.9 (a) through (j) that apply to the affected source and chosen compliance method, by the dates specified. These notifications include but are not limited to the following:
- (1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) no later than May 5, 2004.
  - (2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7130(d).
  - (3) If required to conduct a performance test, design evaluation, opacity observation, visible emissions observation, or other initial compliance demonstration as specified in Table 3 or 4 to 40 CFR 63, Subpart AAAAA, a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 63.7130(e). The Notification of Compliance Status must be submitted:
    - (A) Before the close of business on the 30th calendar day following completion of the initial compliance demonstration for each initial compliance demonstration required in Table 3 to 40 CFR 63, Subpart AAAAA, that does not include a performance test; and
    - (B) Before the close of business on the 60th calendar day following the completion of the performance test according to the requirement specified in 40 CFR 63.10(d)(2) for each initial compliance demonstration required in Table 5 to 40 CFR Part 63, Subpart AAAAA that includes a performance test conducted according to the requirements in Table 4 to 40 CFR 63, Subpart AAAAA.
  - (4) If required to conduct opacity or visible emissions observations as required by Table 4 to 40 CFR 63 Subpart AAAAA, the anticipated date for conducting the opacity or visible emission observations specified in 40 CFR 63.6(h)(5) in accordance with the appropriate schedule specified in 40 CFR 63.9(f) as required by 40 CFR 63.7130(a).
- (b) The notifications required by paragraph (a) shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
400 North Senate Avenue  
Indianapolis, Indiana 46204-2251

~~United States Environmental Protection Agency, Region V  
Director, Air and Radiation Division  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590~~

and

~~Gary Department of Environmental Affairs  
839 Broadway  
Gary, Indiana 46402~~

~~The notifications require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~

~~D.2.14 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12]  
[326 IAC 2-7-5]~~

---

~~The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information regarding which compliance option or options will be chosen in the Part 70 permit.~~

- ~~(a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR Part 63, Subpart AAAAA, a description of the affected source and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.~~
- ~~(b) The significant permit modification application shall be submitted no later than April 5, 2006.~~
- ~~(c) The significant permit modification application shall be submitted to:~~

~~Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2254~~

and

~~Gary Department of Environmental Affairs  
839 Broadway  
Gary, Indiana 46402~~

~~D.2.15~~ **D.2.13** Record Keeping Requirements

---

- (a) To document compliance with Condition ~~D.2.3(e)~~ **D.2.1(c)**, the Permittee shall maintain records of the total amount of lime processed by facilities EU-18 and EU-19.
- (b) To document compliance with Condition ~~D.2.9~~ **D.2.7**, the Permittee shall maintain records of the once per day visible emission notations required by Condition ~~D.2.9~~ **D.2.7**.
- (c) To document compliance with Condition ~~D.2.10~~ **D.2.8**, the Permittee shall maintain records of the once per day pressure drop required by Condition ~~D.2.10~~ **D.2.8**.
- (d) To document compliance with Condition ~~D.2.14~~ **D.2.9**, the Permittee shall maintain records of the results of the inspections.
- (e) **To document compliance with Condition D.2.11, the Permittee shall maintain records of the once per day pressure drop and flow rate required by Condition D.2.11.**

- ~~(e)~~(f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

~~D.2.16~~ **D.2.14** Reporting Requirements

A quarterly summary of the information to document compliance with Condition ~~D.2.3(e)~~ **D.2.1(c)** shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting form located at the end of this permit, or its equivalent, within thirty (30) days after the end of the three (3) month period being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

5. Section D.3 has been updated to show changes in emission unit descriptions, as follows:

**SECTION D.3 FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)]:**

**Raw Material Storage and Handling (Fugitive)**

- (~~y~~ **x**) One (1) Coal Storage Pile; identified as EU-22; a capacity of greater than 3.5 acres; a source of fugitive emissions.
- (~~z~~ **y**) Two (2) Limestone Storage Piles; identified as EU-23 and EU-29; each a capacity of greater than 9.5 acres; a source of fugitive emissions.
- (~~aa~~ **z**) Coal Unloading and Processing operations; identified as EU-30; consisting of truck and rail unloading and assorted conveyors; a source of fugitive emissions.
- (~~bb~~ **aa**) Limestone Unloading and Processing operations; identified as EU-31; consisting of barge or boat unloading and assorted conveyors; a source of fugitive emissions.

**Specifically Regulated Insignificant Activities**

- (a) Vehicular traffic on paved and unpaved roads, and parking lots with public access. [326 IAC 6-4] [~~326 IAC 6-1-11.1~~] [**326 IAC 6.8-10**]
- (b) Activities with emissions equal to or less than the following thresholds: 5 lb/hr or 25 lb/day PM; 5 lb/hr or 25 lb/day SO<sub>2</sub>; 5 lb/hr or 25 lb/day NO<sub>x</sub>; 3 lb/hr or 15 lb/day VOC; 0.6 tons per year Pb; 1.0 ton/yr of a single HAP, or 2.5 ton/yr of any combination of HAPs: Assorted covered limestone conveyors; [~~326 IAC 6-1-2~~] [**326 IAC 6.8-1-2**]
- (c) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour: Two (2) boilers with heat input capacities of 0.42 and 0.035 MMBtu per hour. [~~326 IAC 6-1-2(b)(3)~~] [**326 IAC 6.8-1-2(b)(3)**]

**To the extent that any of the above listed operations, or any part of the above listed operations, are processed stone handling (PSH) operations, as defined in 40 CFR 63.7082(g) and 40 CFR 63.7143, then under 40 CFR Part 63, Subpart AAAAA, these facilities are considered an existing affected facility.**

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

6. Section E has been added to include the applicable requirements for 40 CFR 63, Subpart AAAAA for this source.

## SECTION E.1 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

#### Lime Production

- (a) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-1; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-1; exhausting to stacks S-1A through S-1F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (b) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-2; constructed in 1966; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-2; exhausting to stacks S-2A through S-2F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (c) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-3; constructed in 1968; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-3; exhausting to stacks S-3A through S-3F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (d) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-4; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-4; exhausting to stacks S-4A through S-4F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.
- (e) One (1) coal-fired Allis Chalmers Rotary Kiln equipped with a Contact Cooler; identified as EU-5; constructed in 1972; a maximum capacity of 8.2 tons of coal per hour, 47.8 tons of limestone per hour, and 23.3 tons of lime per hour; a maximum heat input capacity of 213 MMBtu/hr; emissions controlled by baghouse CE-5; exhausting to stacks S-5A through S-5F. Under 40 CFR Part 63, Subpart AAAAA, this is considered an existing affected facility.

#### Raw Material Storage and Handling (Fugitive)

- (y) Two (2) Limestone Storage Piles; identified as EU-23 and EU-29; each a capacity of greater than 9.5 acres; a source of fugitive emissions.
- (aa) Limestone Unloading and Processing operations; identified as EU-31; consisting of barge or boat unloading and assorted conveyors; a source of fugitive emissions.

#### Specifically Regulated Insignificant Activities

- (a) Vehicular traffic on paved and unpaved roads, and parking lots with public access. [326 IAC 6-4] [326 IAC 6.8-10]
- (b) Activities with emissions equal to or less than the following thresholds: 5 lb/hr or 25 lb/day PM; 5 lb/hr or 25 lb/day SO<sub>2</sub>; 5 lb/hr or 25 lb/day NO<sub>x</sub>; 3 lb/hr or 15 lb/day VOC; 0.6 tons per year Pb; 1.0 ton/yr of a single HAP, or 2.5 ton/yr of any combination of HAPs: Assorted covered limestone conveyors; [326 IAC 6.8-1-2]

To the extent that any of the above listed operations, or any part of the above listed operations, are processed stone handling (PSH) operations, as defined in 40 CFR 63.7082(g) and 40 CFR 63.7143, then under 40 CFR Part 63, Subpart AAAAA, these facilities are considered an existing affected facility.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

#### National Emission Standards for Hazardous Air Pollutants Requirements [326 IAC 2-7-5(1)]

##### E.1.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants [326 IAC 20-1] [40 CFR Part 63, Subpart A]

Pursuant to 40 CFR 63.7100, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for the rotary kilns (EU1 - EU5) and the affected PSH operations at this source as specified in Appendix A of 40 CFR Part 63, Subpart AAAAA in accordance with schedule in 40 CFR 63 Subpart AAAAA.

##### E.1.2 National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants Requirements [40 CFR Part 63, Subpart AAAAA] [326 IAC 20-91]

Pursuant to CFR Part 63, Subpart AAAAA, the Permittee shall comply with the provisions of 40 CFR Part 63, AAAAA, which are incorporated by reference as 326 IAC 20-91 for the rotary kilns (EU1 - EU5) and the affected PSH operations at this source as specified as follows.

#### § 63.7081 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate a lime manufacturing plant (LMP) that is a major source, or that is located at, or is part of, a major source of hazardous air pollutant (HAP) emissions, unless the LMP is located at a kraft pulp mill, soda pulp mill, sulfite pulp mill, beet sugar manufacturing plant, or only processes sludge containing calcium carbonate from water softening processes.

(1) An LMP is an establishment engaged in the manufacture of lime product (calcium oxide, calcium oxide with magnesium oxide, or dead burned dolomite) by calcination of limestone, dolomite, shells or other calcareous substances.

(2) A major source of HAP is a plant site that emits or has the potential to emit any single HAP at a rate of 9.07 megagrams (10 tons) or more per year or any combination of HAP at a rate of 22.68 megagrams (25 tons) or more per year from all emission sources at the plant site.

#### § 63.7082 What parts of my plant does this subpart cover?

(a) This subpart applies to each existing or new lime kiln(s) and their associated cooler(s), and processed stone handling (PSH) operations system(s) located at an LMP that is a major source.

(b) A new lime kiln is a lime kiln, and (if applicable) its associated lime cooler, for which construction or reconstruction began after December 20, 2002, if you met the applicability criteria in §63.7081 at the time you began construction or reconstruction.

(c) A new PSH operations system is the equipment in paragraph (g) of this section, for which

construction or reconstruction began after December 20, 2002, if you met the applicability criteria in §63.7081 at the time you began construction or reconstruction.

(d) A lime kiln or PSH operations system is reconstructed if it meets the criteria for reconstruction defined in §63.2.

(e) An existing lime kiln is any lime kiln, and (if applicable) its associated lime cooler, that does not meet the definition of a new kiln of paragraph (b) of this section.

(f) An existing PSH operations system is any PSH operations system that does not meet the definition of a new PSH operations system in paragraph (c) of this section.

(g) A PSH operations system includes all equipment associated with PSH operations beginning at the processed stone storage bin(s) or open storage pile(s) and ending where the processed stone is fed into the kiln. It includes man-made processed stone storage bins (but not open processed stone storage piles), conveying system transfer points, bulk loading or unloading systems, screening operations, surge bins, bucket elevators, and belt conveyors. No other materials processing operations are subject to this subpart.

(h) Nuisance dust collectors on lime coolers are part of the lime materials processing operations and are not covered by this subpart.

(i) Lime hydrators are not subject to this subpart.

(j) Open material storage piles are not subject to this subpart.

§ 63.7083 When do I have to comply with this subpart?

(a) If you have a new affected source, you must comply with this subpart according to paragraphs (a)(1) and (2) of this section.

(1) If you start up your affected source before January 5, 2004, you must comply with the emission limitations no later than January 5, 2004, and you must have completed all applicable performance tests no later than July 5, 2004.

(b) If you have an existing affected source, you must comply with the applicable emission limitations for the existing affected source, and you must have completed all applicable performance tests no later than January 5, 2007.

(d) You must meet the notification requirements in §63.7130 according to the schedule in §63.7130 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limitations in this subpart.

#### Emission Limitations

§ 63.7090 What emission limitations must I meet?

(a) You must meet each emission limit in Table 1 to this subpart that applies to you.

(b) You must meet each operating limit in Table 2 to this subpart that applies to you.

#### General Compliance Requirements

§ 63.7100 What are my general requirements for complying with this subpart?

(a) After your initial compliance date, you must be in compliance with the emission limitations (including operating limits) in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must be in compliance with the opacity and visible emission (VE) limits in this subpart during the times specified in §63.6(h)(1).

**(c) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).**

**(d) You must prepare and implement for each LMP, a written operations, maintenance, and monitoring (OM&M) plan. You must submit the plan to the applicable permitting authority for review and approval as part of the application for a 40 CFR part 70 or 40 CFR part 71 permit. Any subsequent changes to the plan must be submitted to the applicable permitting authority for review and approval. Pending approval by the applicable permitting authority of an initial or amended plan, you must comply with the provisions of the submitted plan. Each plan must contain the following information:**

**(1) Process and control device parameters to be monitored to determine compliance, along with established operating limits or ranges, as applicable, for each emission unit.**

**(2) A monitoring schedule for each emission unit.**

**(3) Procedures for the proper operation and maintenance of each emission unit and each air pollution control device used to meet the applicable emission limitations and operating limits in Tables 1 and 2 to this subpart, respectively.**

**(4) Procedures for the proper installation, operation, and maintenance of monitoring devices or systems used to determine compliance, including:**

**(i) Calibration and certification of accuracy of each monitoring device;**

**(ii) Performance and equipment specifications for the sample interface, parametric signal analyzer, and the data collection and reduction systems;**

**(iii) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (3), and (4)(ii); and**

**(iv) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d).**

**(5) Procedures for monitoring process and control device parameters.**

**(6) Corrective actions to be taken when process or operating parameters or add-on control device parameters deviate from the operating limits specified in Table 2 to this subpart, including:**

**(i) Procedures to determine and record the cause of a deviation or excursion, and the time the deviation or excursion began and ended; and**

**(ii) Procedures for recording the corrective action taken, the time corrective action was initiated, and the time and date the corrective action was completed.**

**(7) A maintenance schedule for each emission unit and control device that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance.**

**(e) You must develop a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).**

#### **Testing and Initial Compliance Requirements**

**§ 63.7110 By what date must I conduct performance tests and other initial compliance demonstrations?**

**(a) If you have an existing affected source, you must complete all applicable performance tests within January 5, 2007, according to the provisions in §§63.7(a)(2) and 63.7114.**

**(d) For each initial compliance requirement in Table 3 to this subpart that applies to you where the**

monitoring averaging period is 3 hours, the 3-hour period for demonstrating continuous compliance for emission units within existing affected sources at LMP begins at 12:01 a.m. on the compliance date for existing affected sources, that is, the day following completion of the initial compliance demonstration, and ends at 3:01 a.m. on the same day.

(e) For each initial compliance requirement in Table 3 to this subpart that applies to you where the monitoring averaging period is 3 hours, the 3-hour period for demonstrating continuous compliance for emission units within new or reconstructed affected sources at LMP begins at 12:01 a.m. on the day following completion of the initial compliance demonstration, as required in paragraphs (b) and (c) of this section, and ends at 3:01 a.m. on the same day.

§ 63.7111 When must I conduct subsequent performance tests?

You must conduct a performance test within 5 years following the initial performance test and within 5 years following each subsequent performance test thereafter.

§ 63.7112 What performance tests, design evaluations, and other procedures must I use?

(a) You must conduct each performance test in Table 4 to this subpart that applies to you.

(b) Each performance test must be conducted according to the requirements in §63.7(e)(1) and under the specific conditions specified in Table 4 to this subpart.

(c) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §63.7(e)(1).

(d) Except for opacity and VE observations, you must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour.

(e) The emission rate of particulate matter (PM) from each lime kiln (and each lime cooler if there is a separate exhaust to the atmosphere from the lime cooler) must be computed for each run using Equation 1 of this section:

$$E = (C_k Q_k + C_c Q_c) / PK \quad (\text{Eq. 1})$$

Where:

E = Emission rate of PM, pounds per ton (lb/ton) of stone feed.

C<sub>k</sub> = Concentration of PM in the kiln effluent, grain/dry standard cubic feet (gr/dscf).

Q<sub>k</sub> = Volumetric flow rate of kiln effluent gas, dry standard cubic feet per hour (dscf/hr).

C<sub>c</sub> = Concentration of PM in the cooler effluent, grain/dscf. This value is zero if there is not a separate cooler exhaust to the atmosphere.

Q<sub>c</sub> = Volumetric flow rate of cooler effluent gas, dscf/hr. This value is zero if there is not a separate cooler exhaust to the atmosphere.

P = Stone feed rate, tons per hour (ton/hr).

K = Conversion factor, 7000 grains per pound (grains/lb).

(f)(1) If you choose to meet a weighted average emission limit as specified in item 4 of Table 1 to this subpart, you must calculate a combined particulate emission rate from all kilns and coolers within your LMP using Equation 2 of this section:

$$E_T = \sum_{i=1}^n E_i P_i / \sum_{i=1}^n P_i \quad (\text{Eq. 2})$$

**Where:**

**E<sub>T</sub>** = Emission rate of PM from all kilns and coolers, lb/ton of stone feed.

**E<sub>i</sub>** = Emission rate of PM from kiln i, or from kiln/cooler combination i, lb/ton of stone feed.

**P<sub>i</sub>** = Stone feed rate to kiln i, ton/hr.

**n** = Number of kilns you wish to include in averaging.

(2) You do not have to include every kiln in this calculation, only include kilns you wish to average. Kilns that have a PM emission limit of 0.60 lb/tsf are ineligible for any averaging.

(g) The weighted average PM emission limit from all kilns and coolers for which you are averaging must be calculated using Equation 3 of this section:

$$E_{TN} = \sum_{j=1}^m E_j P_j / \sum_{j=1}^m P_j \quad (\text{Eq. 3})$$

**Where:**

**E<sub>TN</sub>** = Weighted average PM emission limit for all kilns and coolers being included in averaging at the LMP, lb/ton of stone feed.

**E<sub>j</sub>** = PM emission limit (0.10 or 0.12) for kiln j, or for kiln/cooler combination j, lb/ton of stone feed.

**P<sub>j</sub>** = Stone feed rate to kiln j, ton/hr.

**m** = Number of kilns and kiln/cooler combinations you are averaging at your LMP. You must include the same kilns in the calculation of E<sub>T</sub> and E<sub>TN</sub>. Kilns that have a PM emission limit of 0.60 lb/tsf are ineligible for any averaging.

(h) Performance test results must be documented in complete test reports that contain the information required by paragraphs (h)(1) through (10) of this section, as well as all other relevant information. The plan to be followed during testing must be made available to the Administrator at least 60 days prior to testing.

(1) A brief description of the process and the air pollution control system;

(2) Sampling location description(s);

(3) A description of sampling and analytical procedures and any modifications to standard procedures;

(4) Test results, including opacity;

(5) Quality assurance procedures and results;

(6) Records of operating conditions during the test, preparation of standards, and calibration procedures;

(7) Raw data sheets for field sampling and field and laboratory analyses;

(8) Documentation of calculations;

**(9) All data recorded and used to establish operating limits; and**

**(10) Any other information required by the test method.**

**(j) You must establish any applicable 3-hour block average operating limit indicated in Table 2 to this subpart according to the applicable requirements in Table 3 to this subpart and paragraphs (j)(1) through (4) of this section.**

**(1) Continuously record the parameter during the PM performance test and include the parameter record(s) in the performance test report.**

**(2) Determine the average parameter value for each 15-minute period of each test run.**

**(3) Calculate the test run average for the parameter by taking the average of all the 15-minute parameter values for the run.**

**(4) Calculate the 3-hour operating limit by taking the average of the three test run averages.**

**(k) For each building enclosing any PSH operations that is subject to a VE limit, you must conduct a VE check according to item 18 in Table 4 to this subpart, and in accordance with paragraphs (k)(1) through (3) of this section.**

**(1) Conduct visual inspections that consist of a visual survey of the building over the test period to identify if there are VE, other than condensed water vapor.**

**(2) Select a position at least 15 but not more 1,320 feet from each side of the building with the sun or other light source generally at your back.**

**(3) The observer conducting the VE checks need not be certified to conduct EPA Method 9 in appendix A to part 60 of this chapter, but must meet the training requirements as described in EPA Method 22 in appendix A to part 60 of this chapter.**

**(l) When determining compliance with the opacity standards for fugitive emissions from PSH operations in item 7 of Table 1 to this subpart, you must conduct EPA Method 9 in appendix A to part 60 of this chapter according to item 17 in Table 4 to this subpart, and in accordance with paragraphs (l)(1) through (3) of this section.**

**(1) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).**

**(2) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun must be followed.**

**(3) If you use wet dust suppression to control PM from PSH operations, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered VE. When a water mist of this nature is present, you must observe emissions at a point in the plume where the mist is no longer visible.**

**§ 63.7113 What are my monitoring installation, operation, and maintenance requirements?**

**(a) You must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to your OM&M plan required by §63.7100(d) and paragraphs (a)(1) through (5) of this section, and you must install, operate, and maintain each continuous opacity monitoring system (COMS) as required by paragraph (g) of this section**

**(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period.**

- (2) To calculate a valid hourly value, you must have at least four equally spaced data values (or at least two, if that condition is included to allow for periodic calibration checks) for that hour from a CPMS that is not out of control according your OM&M plan, and use all valid data.**
- (3) To calculate the average for each 3-hour block averaging period, you must use all valid data, and you must have at least 66 percent of the hourly averages for that period using only hourly average values that are based on valid data (i.e., not from out-of-control periods).**
- (4) You must conduct a performance evaluation of each CPMS in accordance with your OM&M plan.**
- (5) You must continuously operate and maintain the CPMS according to the OM&M plan, including, but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.**
- (b) For each flow measurement device, you must meet the requirements in paragraphs (a)(1) through (5) and (b)(1) through (4) of this section.**
- (1) Use a flow sensor with a minimum tolerance of 2 percent of the flow rate.**
- (2) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.**
- (3) Conduct a flow sensor calibration check at least semiannually.**
- (4) At least monthly, inspect all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.**
- (c) For each pressure measurement device, you must meet the requirements in paragraphs (a)(1) through (5) and (c)(1) through (7) of this section.**
- (1) Locate the pressure sensor(s) in or as close to as possible a position that provides a representative measurement of the pressure.**
- (2) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.**
- (3) Use a gauge with a minimum tolerance of 0.5 inch of water or a transducer with a minimum tolerance of 1 percent of the pressure range.**
- (4) Check pressure tap pluggage daily.**
- (5) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.**
- (6) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.**
- (7) At least monthly, inspect all components for integrity, all electrical connections for continuity, and all mechanical connections for leakage.**
- (d) For each bag leak detection system (BLDS), you must meet any applicable requirements in paragraphs (a)(1) through (5) and (d)(1) through (8) of this section.**
- (1) The BLDS must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.**
- (2) The sensor on the BLDS must provide output of relative PM emissions.**
- (3) The BLDS must have an alarm that will sound automatically when it detects an increase in relative PM emissions greater than a preset level.**

**(4) The alarm must be located in an area where appropriate plant personnel will be able to hear it.**

**(5) For a positive-pressure fabric filter (FF), each compartment or cell must have a bag leak detector (BLD). For a negative-pressure or induced-air FF, the BLD must be installed downstream of the FF. If multiple BLD are required (for either type of FF), the detectors may share the system instrumentation and alarm.**

**(6) Bag leak detection systems must be installed, operated, adjusted, and maintained according to the manufacturer's written specifications and recommendations. Standard operating procedures must be incorporated into the OM&M plan.**

**(7) At a minimum, initial adjustment of the system must consist of establishing the baseline output in both of the following ways:**

**(i) Adjust the range and the averaging period of the device.**

**(ii) Establish the alarm set points and the alarm delay time.**

**(8) After initial adjustment, the range, averaging period, alarm set points, or alarm delay time may not be adjusted except as specified in the OM&M plan required by §63.7100(d). In no event may the range be increased by more than 100 percent or decreased by more than 50 percent over a 365-day period unless a responsible official, as defined in §63.2, certifies in writing to the Administrator that the FF has been inspected and found to be in good operating condition.**

**(e) For each PM detector, you must meet any applicable requirements in paragraphs (a)(1) through (5) and (e)(1) through (8) of this section.**

**(1) The PM detector must be certified by the manufacturer to be capable of detecting PM emissions at concentrations of 10 milligrams per actual cubic meter (0.0044 grains per actual cubic foot) or less.**

**(2) The sensor on the PM detector must provide output of relative PM emissions.**

**(3) The PM detector must have an alarm that will sound automatically when it detects an increase in relative PM emissions greater than a preset level.**

**(4) The alarm must be located in an area where appropriate plant personnel will be able to hear it.**

**(5) For a positive-pressure electrostatic precipitator (ESP), each compartment must have a PM detector. For a negative-pressure or induced-air ESP, the PM detector must be installed downstream of the ESP. If multiple PM detectors are required (for either type of ESP), the detectors may share the system instrumentation and alarm.**

**(6) Particulate matter detectors must be installed, operated, adjusted, and maintained according to the manufacturer's written specifications and recommendations. Standard operating procedures must be incorporated into the OM&M plan.**

**(7) At a minimum, initial adjustment of the system must consist of establishing the baseline output in both of the following ways:**

**(i) Adjust the range and the averaging period of the device.**

**(ii) Establish the alarm set points and the alarm delay time.**

**(8) After initial adjustment, the range, averaging period, alarm set points, or alarm delay time may not be adjusted except as specified in the OM&M plan required by §63.7100(d). In no event may the range be increased by more than 100 percent or decreased by more than 50 percent over a 365-day period unless a responsible official as defined in §63.2 certifies in writing to the Administrator that the ESP has been inspected and found to be in good operating condition.**

**(f) For each emission unit equipped with an add-on air pollution control device, you must inspect each capture/collection and closed vent system at least once each calendar year to ensure that each system is operating in accordance with the operating requirements in item 6 of Table 2 to this subpart and record the results of each inspection.**

**(g) For each COMS used to monitor an add-on air pollution control device, you must meet the requirements in paragraphs (g)(1) and (2) of this section.**

**(1) Install the COMS at the outlet of the control device.**

**(2) Install, maintain, calibrate, and operate the COMS as required by 40 CFR part 63, subpart A, General Provisions and according to Performance Specification (PS)–1 of appendix B to part 60 of this chapter. Facilities that operate COMS installed on or before February 6, 2001, may continue to meet the requirements in effect at the time of COMS installation unless specifically required to re-certify the COMS by their permitting authority.**

**§ 63.7114 How do I demonstrate initial compliance with the emission limitations standard?**

**(a) You must demonstrate initial compliance with each emission limit in Table 1 to this subpart that applies to you, according to Table 3 to this subpart. For existing lime kilns and their associated coolers, you may perform VE measurements in accordance with EPA Method 9 of appendix A to part 60 in lieu of installing a COMS or PM detector if any of the conditions in paragraphs (a)(1) through (3) of this section exist:**

**(1) You use a FF for PM control, and the FF is under positive pressure and has multiple stacks; or**

**(2) The control device exhausts through a monovent; or**

**(3) The installation of a COMS in accordance with PS–1 of appendix B to part 60 is infeasible.**

**(b) You must establish each site-specific operating limit in Table 2 to this subpart that applies to you according to the requirements in §63.7112(j) and Table 4 to this subpart. Alternative parameters may be monitored if approval is obtained according to the procedures in §63.8(f)**

**(c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.7130(e).**

#### **Continuous Compliance Requirements**

**§ 63.7120 How do I monitor and collect data to demonstrate continuous compliance?**

**(a) You must monitor and collect data according to this section.**

**(b) Except for monitor malfunctions, associated repairs, required quality assurance or control activities (including, as applicable, calibration checks and required zero adjustments), and except for PSH operations subject to monthly VE testing, you must monitor continuously (or collect data at all required intervals) at all times that the emission unit is operating.**

**(c) Data recorded during the conditions described in paragraphs (c)(1) through (3) of this section may not be used either in data averages or calculations of emission or operating limits; or in fulfilling a minimum data availability requirement. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system.**

**(1) Monitoring system breakdowns, repairs, preventive maintenance, calibration checks, and zero (low-level) and high-level adjustments;**

**(2) Periods of non-operation of the process unit (or portion thereof), resulting in cessation of the emissions to which the monitoring applies; and**

**(3) Start-ups, shutdowns, and malfunctions.**

**§ 63.7121 How do I demonstrate continuous compliance with the emission limitations standard?**

**(a) You must demonstrate continuous compliance with each emission limitation in Tables 1 and 2 to this subpart that applies to you according to the methods specified in Tables 5 and 6 to this subpart.**

**(b) You must report each instance in which you did not meet each operating limit, opacity limit, and VE limit in Tables 2 and 6 to this subpart that applies to you. This includes periods of startup, shutdown, and malfunction. These instances are deviations from the emission limitations in this subpart. These deviations must be reported according to the requirements in §63.7131.**

**(d) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the Administrator's satisfaction that you were operating in accordance with §63.6(e)(1). The Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).**

**(e) For each PSH operation subject to an opacity limit as specified in Table 1 to this subpart, and any vents from buildings subject to an opacity limit, you must conduct a VE check according to item 1 in Table 6 to this subpart, and as follows:**

**(1) Conduct visual inspections that consist of a visual survey of each stack or process emission point over the test period to identify if there are VE, other than condensed water vapor.**

**(2) Select a position at least 15 but not more 1,320 feet from the affected emission point with the sun or other light source generally at your back.**

**(3) The observer conducting the VE checks need not be certified to conduct EPA Method 9 in appendix A to part 60 of this chapter, but must meet the training requirements as described in EPA Method 22 of appendix A to part 60 of this chapter.**

**(f) For existing lime kilns and their associated coolers, you may perform VE measurements in accordance with EPA Method 9 of appendix A to part 60 in lieu of installing a COMS or PM detector if any of the conditions in paragraphs (f)(1) or (3) of this section exist:**

**(1) You use a FF for PM control, and the FF is under positive pressure and has multiple stacks; or**

**(2) The control device exhausts through a monovent; or**

**(3) The installation of a COMS in accordance with PS-1 of appendix B to part 60 is infeasible.**

**Notification, Reports, and Records**

**§ 63.7130 What notifications must I submit and when?**

**(a) You must submit all of the notifications in §§63.6(h)(4) and (5); 63.7(b) and (c); 63.8(e); (f)(4) and (6); and 63.9 (a) through (j) that apply to you, by the dates specified.**

**(b) As specified in §63.9(b)(2), if you start up your affected source before January 5, 2004, you must submit an initial notification not later than 120 calendar days after January 5, 2004.**

**(c) If you startup your new or reconstructed affected source on or after January 5, 2004, you must submit an initial notification not later than 120 calendar days after you start up your affected source.**

**(d) If you are required to conduct a performance test, you must submit a notification of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin, as required in §63.7(b)(1).**

**(e) If you are required to conduct a performance test, design evaluation, opacity observation, VE**

**observation, or other initial compliance demonstration as specified in Table 3 or 4 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).**

**(1) For each initial compliance demonstration required in Table 3 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th calendar day following the completion of the initial compliance demonstration.**

**(2) For each compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 4 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test according to §63.10(d)(2).**

**§ 63.7131 What reports must I submit and when?**

**(a) You must submit each report listed in Table 7 to this subpart that applies to you.**

**(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date specified in Table 7 to this subpart and according to the requirements in paragraphs (b)(1) through (5) of this section:**

**(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7083 and ending on June 30 or December 31, whichever date is the first date following the end of the first half calendar year after the compliance date that is specified for your source in §63.7083.**

**(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first half calendar year after the compliance date that is specified for your affected source in §63.7083.**

**(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.**

**(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.**

**(5) For each affected source that is subject to permitting regulations pursuant to part 70 or part 71 of this chapter, if the permitting authority has established dates for submitting semiannual reports pursuant to §§70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A) of this chapter, you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates specified in paragraphs (b)(1) through (4) of this section.**

**(c) The compliance report must contain the information specified in paragraphs (c)(1) through (6) of this section.**

**(1) Company name and address.**

**(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.**

**(3) Date of report and beginning and ending dates of the reporting period.**

**(4) If you had a startup, shutdown or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in §63.10(d)(5)(i).**

**(5) If there were no deviations from any emission limitations (emission limit, operating limit, opacity limit, and VE limit) that apply to you, the compliance report must include a statement that there were no deviations from the emission limitations during the reporting period.**

**(6) If there were no periods during which the continuous monitoring systems (CMS) were out-of-control as specified in §63.8(c)(7), a statement that there were no periods during which the CMS were out-of-control during the reporting period.**

**(d) For each deviation from an emission limitation (emission limit, operating limit, opacity limit, and VE limit) that occurs at an affected source where you are not using a CMS to comply with the emission limitations in this subpart, the compliance report must contain the information specified in paragraphs (c)(1) through (4) and (d)(1) and (2) of this section. The deviations must be reported in accordance with the requirements in §63.10(d).**

**(1) The total operating time of each emission unit during the reporting period.**

**(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.**

**(e) For each deviation from an emission limitation (emission limit, operating limit, opacity limit, and VE limit) occurring at an affected source where you are using a CMS to comply with the emission limitation in this subpart, you must include the information specified in paragraphs (c)(1) through (4) and (e)(1) through (11) of this section. This includes periods of startup, shutdown, and malfunction.**

**(1) The date and time that each malfunction started and stopped.**

**(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.**

**(3) The date, time and duration that each CMS was out-of-control, including the information in §63.8(c)(8).**

**(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.**

**(5) A summary of the total duration of the deviations during the reporting period and the total duration as a percent of the total affected source operating time during that reporting period.**

**(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.**

**(7) A summary of the total duration of CMS downtime during the reporting period and the total duration of CMS downtime as a percent of the total emission unit operating time during that reporting period.**

**(8) A brief description of the process units.**

**(9) A brief description of the CMS.**

**(10) The date of the latest CMS certification or audit.**

**(11) A description of any changes in CMS, processes, or controls since the last reporting period.**

**(f) Each facility that has obtained a title V operating permit pursuant to part 70 or part 71 of this chapter must report all deviations as defined in this subpart in the semiannual monitoring report required by §§70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A) of this chapter. If you submit a compliance report specified in Table 7 to this subpart along with, or as part of, the semiannual monitoring report required by §§70.6(a)(3)(iii)(A) or 71.6(a)(3)(iii)(A) of this chapter, and the compliance report includes all required information concerning deviations from any emission limitation (including any operating limit), submission of the compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a**

**compliance report shall not otherwise affect any obligation you may have to report deviations from permit requirements to the permit authority.**

**§ 63.7132 What records must I keep?**

**(a) You must keep the records specified in paragraphs (a)(1) through (3) of this section.**

**(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirements in §63.10(b)(2)(xiv).**

**(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.**

**(3) Records of performance tests, performance evaluations, and opacity and VE observations as required in §63.10(b)(2)(viii).**

**(b) You must keep the records in §63.6(h)(6) for VE observations.**

**(c) You must keep the records required by Tables 5 and 6 to this subpart to show continuous compliance with each emission limitation that applies to you.**

**(d) You must keep the records which document the basis for the initial applicability determination as required under §63.7081.**

**§ 63.7133 In what form and for how long must I keep my records?**

**(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).**

**(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.**

**(c) You must keep each record onsite for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You may keep the records offsite for the remaining 3 years.**

**Other Requirements and Information**

**§ 63.7140 What parts of the General Provisions apply to me?**

**Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. When there is overlap between subpart A and subpart AAAAA, as indicated in the “Explanations” column in Table 8, subpart AAAAA takes precedence.**

**§ 63.7141 Who implements and enforces this subpart?**

**(a) This subpart can be implemented and enforced by us, the U.S. EPA, or by a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.**

**(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.**

**(c) The authorities that will not be delegated to State, local, or tribal agencies are as specified in paragraphs (c)(1) through (6) of this section.**

**(1) Approval of alternatives to the non-opacity emission limitations in §63.7090(a).**

**(2) Approval of alternative opacity emission limitations in §63.7090(a).**

**(3) Approval of alternatives to the operating limits in §63.7090(b).**

**(4) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.**

**(5) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.**

**(6) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.**

**§ 63.7143 What definitions apply to this subpart?**

Terms used in this subpart are defined in the Clean Air Act, in §63.2, and in this section as follows:

**Bag leak detector system (BLDS)** is a type of PM detector used on FF to identify an increase in PM emissions resulting from a broken filter bag or other malfunction and sound an alarm.

**Belt conveyor** means a conveying device that transports processed stone from one location to another by means of an endless belt that is carried on a series of idlers and routed around a pulley at each end.

**Bucket elevator** means a processed stone conveying device consisting of a head and foot assembly which supports and drives an endless single or double strand chain or belt to which buckets are attached.

**Building** means any frame structure with a roof.

**Capture system** means the equipment (including enclosures, hoods, ducts, fans, dampers, etc.) used to capture and transport PM to a control device.

**Control device** means the air pollution control equipment used to reduce PM emissions released to the atmosphere from one or more process operations at an LMP.

**Conveying system** means a device for transporting processed stone from one piece of equipment or location to another location within a plant. Conveying systems include but are not limited to feeders, belt conveyors, bucket elevators and pneumatic systems.

**Deviation** means any instance in which an affected source, subject to this subpart, or an owner or operator of such a source:

**(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation (including any operating limit);**

**(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or**

**(3) Fails to meet any emission limitation (including any operating limit) in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is allowed by this subpart.**

**Emission limitation** means any emission limit, opacity limit, operating limit, or VE limit.

**Emission unit** means a lime kiln, lime cooler, storage bin, conveying system transfer point, bulk loading or unloading operation, bucket elevator or belt conveyor at an LMP.

**Fugitive emission** means PM that is not collected by a capture system.

**Hydrator** means the device used to produce hydrated lime or calcium hydroxide via the chemical

**reaction of the lime product with water.**

**Lime cooler means the device external to the lime kiln (or part of the lime kiln itself) used to reduce the temperature of the lime produced by the kiln.**

**Lime kiln means the device, including any associated preheater, used to produce a lime product from stone feed by calcination. Kiln types include, but are not limited to, rotary kiln, vertical kiln, rotary hearth kiln, double-shaft vertical kiln, and fluidized bed kiln.**

**Lime manufacturing plant (LMP) means any plant which uses a lime kiln to produce lime product from limestone or other calcareous material by calcination.**

**Lime product means the product of the lime kiln calcination process including, calcitic lime, dolomitic lime, and dead-burned dolomite.**

**Limestone means the material comprised primarily of calcium carbonate (referred to sometimes as calcitic or high calcium limestone), magnesium carbonate, and/or the double carbonate of both calcium and magnesium (referred to sometimes as dolomitic limestone or dolomite).**

**Monovent means an exhaust configuration of a building or emission control device (e.g., positive pressure FF) that extends the length of the structure and has a width very small in relation to its length (i.e., length-to-width ratio is typically greater than 5:1). The exhaust may be an open vent with or without a roof, louvered vents, or a combination of such features.**

**Particulate matter (PM) detector means a system that is continuously capable of monitoring PM loading in the exhaust of FF or ESP in order to detect bag leaks, upset conditions, or control device malfunctions and sounds an alarm at a preset level. A PM detector system includes, but is not limited to, an instrument that operates on triboelectric, light scattering, light transmittance, or other effects to continuously monitor relative particulate loadings. A BLDS is a type of PM detector.**

**Positive pressure FF or ESP means a FF or ESP with the fan(s) on the upstream side of the control device.**

**Process stone handling operations means the equipment and transfer points between the equipment used to transport processed stone, and includes, storage bins, conveying system transfer points, bulk loading or unloading systems, screening operations, bucket elevators, and belt conveyors.**

**Processed stone means limestone or other calcareous material that has been processed to a size suitable for feeding into a lime kiln.**

**Screening operation means a device for separating material according to size by passing undersize material through one or more mesh surfaces (screens) in series and retaining oversize material on the mesh surfaces (screens).**

**Stack emissions means the PM that is released to the atmosphere from a capture system or control device.**

**Storage bin means a manmade enclosure for storage (including surge bins) of processed stone prior to the lime kiln.**

**Transfer point means a point in a conveying operation where the material is transferred to or from a belt conveyor.**

**Vent means an opening through which there is mechanically induced air flow for the purpose of exhausting from a building air carrying PM emissions from one or more emission units.**

Table 1 to Subpart AAAAA of Part 63—Emission Limits

As required in §63.7090(a), you must meet each emission limit in the following table that applies to you.

For . . .	You must meet the following emission limit
1. Existing lime kilns and their associated lime coolers that did not have a wet scrubber installed and operating prior to January 5, 2004.	PM emissions must not exceed 0.12 pounds per ton of stone feed (lb/tsf).
4. All existing and new lime kilns and their associated coolers at your LMP, and you choose to average PM emissions, except that any kiln that is allowed to meet the 0.60 lb/tsf PM emission limit is ineligible for averaging.	Weighted average PM emissions calculated according to Eq. 2 in § 63.7112 must not exceed 0.12 lb/tsf (if you are averaging only existing kilns) or 0.10 lb/tsf (if you are averaging only new kilns). If you are averaging existing and new kilns, your weighted average PM emissions must not exceed the weighted average emission limit calculated according to Eq. 3 in § 63.7112, except that no new kiln and its associated cooler considered alone may exceed an average PM emissions limit of 0.10 lb/tsf.
5. Stack emissions from all PSH operations at a new or existing affected source.	PM emissions must not exceed 0.05 grams per dry standard cubic meter (g/dscm).
6. Stack emissions from all PSH operations at a new or existing affected source, unless the stack emissions are discharged through a wet scrubber control device.	Emissions must not exceed 7 percent opacity.
7. Fugitive emissions from all PSH operations at a new or existing affected source, except as provided by item 8 of this Table 1.	Emissions must not exceed 10 percent opacity.
8. All PSH operations at a new or existing affected source enclosed in a building.	All of the individually affected PSH operations must comply with the applicable PM and opacity emission limitations in items 5 through 7 of this Table 1, or the building must comply with the following: There must be no VE from the building, except from a vent; and vent emissions must not exceed the stack emissions limitations in items 5 and 6 of this Table 1.
9. Each FF that controls emissions from only an individual, enclosed storage bin.	Emissions must not exceed 7 percent opacity.

10. Each set of multiple storage bins at a new or existing affected source, with combined stack emissions. You must comply with the emission limits in items 5 and 6 of this Table 1.
- 

**Table 2 to Subpart AAAAA of Part 63—Operating Limits**

**As required in §63.7090(b), you must meet each operating limit in the following table that applies to you.**

---

For . . .	You must . . .
1. Each lime kiln and each lime cooler (if there is a separate exhaust to the atmosphere from the associated lime cooler) equipped with an FF.	Maintain and operate the FF such that the BLDS or PM detector alarm condition does not exist for more than 5 percent of the total operating time in a 6-month period; and comply with the requirements in § 63.7113(d) through (f) and Table 5 to this subpart. In lieu of a BLDS or PM detector maintain the FF such that the 6-minute average opacity for any 6-minute block period does not exceed 15 percent; and comply with the requirements in § 63.7113(f) and (g) and Table 5 to this subpart.
4. Each PSH operation subject to a PM limit which uses a wet scrubber.	Maintain the 3-hour block average exhaust gas stream pressure drop across the wet scrubber greater than or equal to the pressure drop operating limit established during the PM performance test; and maintain the 3-hour block average scrubbing liquid flow rate greater than or equal to the flow rate operating limit established during the performance test.
5. All affected sources.....	Prepare a written OM&M plan; the plan must include the items listed in § 63.7100(d) and the corrective actions to be taken when required in Table 5 to this subpart.
6. Each emission unit equipped with an add-on air pollution control device.	a. Vent captured emissions through a closed system, except that dilution air may be added to emission streams for the purpose of controlling temperature at the inlet to an FF; and b. Operate each capture/

collection system according to the procedures and requirements in the OM&M plan.

**Table 3 to Subpart AAAAA of Part 63—Initial Compliance With Emission Limits**

**As required in §63.7114, you must demonstrate initial compliance with each emission limitation that applies to you, according to the following table.**

For . . .	For the following emission limit . . .	You have demonstrated initial compliance, if after following the requirements in § 63.7112 . . .
1. All new or existing lime kilns and their associated lime coolers (kilns/coolers).	PM emissions must not exceed 0.12 lb/tsf for all existing kilns/coolers with dry controls, 0.60 lb/tsf for existing kilns/coolers with wet scrubbers, 0.10 lb/tsf for all new kilns/coolers, or a weighted average calculated according to Eq. 3 in §63.7112.	The kiln outlet PM emissions (and if applicable, summed with the separate cooler PM emissions), based on the PM emissions measured using Method 5 in appendix A to part 60 of this chapter and the stone feed rate measurement over the period of initial performance test, do not exceed the emission limit; if the lime kiln is controlled by an FF or ESP and you are opting to monitor PM emissions with a BLDS or PM detector, you have installed and are operating the monitoring device according to the requirements in § 63.7113(d) or (e), respectively; and if the lime kiln is controlled by an FF or ESP and you are opting to monitor PM emissions using a COMS, you have installed and are operating the OMS according to the requirements n §63.7113(g).
2. Stack emissions from all PHS operations at a new or existing affected source.	PM emissions must not exceed 0.05 g/dscm.	The outlet PM emissions, based on Method 5 or method 17 in appendix A to art 60 of this chapter, over the period of the initial performance test do not exceed 0.05 g/dscm; and if the emission unit is controlled with a wet scrubber, you have a record of the scrubber's pressure drop and liquid flow rate operating parameters over the 3-hour performance test during which emissions did not exceed the emissions limitation.
3. Stack emissions from all PSH operations at a new or existing affected source, unless the stack emissions are discharged	Emissions must not exceed 7 percent opacity.	Each of the thirty 6-minute opacity averages during the initial period, using Method 9 in appendix A to part 60 of this chapter, does not exceed the 7 percent opacity limit. At least thirty 6-minute averages must be obtained.

through a wet scrubber control device.		
4. Fugitive emissions from all PSH operations at a new or existing affected source.	Emissions must not exceed 10 percent opacity.	Each of the 6-minute opacity averages during the initial compliance period, using Method 9 in appendix A to part 60 of this chapter, does not exceed the 10percent opacity limit.
5. All PSH operations at a new or existing affected source, enclosed in building.	All of the individually affected PSH operations must comply with the applicable PM and opacity emission limitations for items 2 through 4 of this Table 3, or the building must comply with the following: There must be no VE from the building, except from a vent, and vent emissions must not exceed the emission limitations in items 2 and 3 of this Table 3.	All the PSH operations enclosed in the building have demonstrated initial compliance according to the applicable requirements for items 2 through 4 of this Table 3; or if you are complying with the building emission limitations, there are no VE from the building according to item 18 of Table 4 to this subpart and §63.7112(k), and you demonstrate initial compliance with applicable building vent emissions limitations according to the requirements in items 2 and 3 of this Table 3.
6. Each FF that controls emissions from only an individual storage bin.	Emissions must not exceed 7 percent opacity.	Each of the ten 6-minute averages during the 1-hour initial compliance period, using Method 9 in appendix A to part 60 of this chapter, does not exceed the 7 percent opacity limit.
7. Each set of multiple storage bins with combined stack emissions.	You must comply with emission limitations in items 2 and 3 of this Table 3.	You demonstrate initial compliance according to the requirements in items 2 and 3 of this Table 3.

**Table 4 to Subpart AAAAA of Part 63—Requirements for Performance Tests**

As required in §63.7112, you must conduct each performance test in the following table that applies to you.

For . . .	You must . . .	Using . . .	According to the following requirements . . .
1. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the	Select the location of the sampling port and the number of traverse	Method 1 or 1A of appendix A to part 60 of this chapter; and	Sampling sites must be located at the outlet of the control

associated lime cooler.	ports.	§ 63.6(d)(1)(i).	device(s) and prior to any releases to the atmosphere.
2. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler.	Determine velocity and volumetric flow rate.	Method 2, 2A, 2C, 2D, 2F, or 2G in appendix A to part 60 of this chapter.	Not applicable.
3. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler.	Conduct gas molecular weight analysis.	Method 3, 3A, or 3B in appendix A to part 60 of this chapter.	Not applicable.
4. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler.	Measure moisture content of the stack gas.	Method 4 in appendix A to part 60 of this chapter.	Not applicable.
5. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler, and which uses a negative pressure PM control device.	Measure PM emissions...	Method 5 in appendix A to part 60 of this chapter.	Conduct the test(s) when the source is operating at representative operating conditions in accordance with § 63.7(e); the minimum sampling volume must be 0.85 dry standard cubic meter (dscm) (30 dry standard cubic foot (dscf)); if there is a separate lime cooler exhaust to the atmosphere, you must conduct the Method 5 test of the cooler exhaust concurrently with the kiln exhaust test.
6. Each lime kiln and each associated lime cooler, if there is a separate exhaust to the atmosphere from the associated lime cooler, and which uses a positive pressure FF or ESP.	Measure PM emissions...	Method 5D in appendix A to part 60 of this chapter.	Conduct the test(s) when the source is operating at representative operating conditions in accordance with § 63.7(e); if there is a separate lime cooler exhaust to the atmosphere, you must conduct the Method 5 test of the separate cooler exhaust concurrently with the kiln exhaust test.
7. Each lime kiln.....	Determine the mass rate of stone feed to the kiln during the kiln	Any suitable device....	Calibrate and maintain the device according to manufacturer's

	PM emissions test.		instructions; the measuring device used must be accurate to within ±5 percent of the mass rate of stone feed over its operating range.
10. Each lime kiln equipped with a FF or ESP that is monitored with a PM detector.	Have installed and have operating the BLDS or PM detector prior to the performance test.	Standard operating procedures incorporated into the OM&M plan.	According to the requirements in § 63.7113(d) or (e), respectively.
11. Each lime kiln equipped with a FF or ESP that is monitored with a COMS.	Have installed and have operating the COMS prior to the performance test.	Standard operating procedures incorporated into the OM&M plan and as required by 40 CFR part 63, subpart A, General Provisions and according to PS-1 of appendix B to part 60 of this chapter, except as specified in § 63.7113(g)(2).	According to the requirements in § 63.7113(g).
12. Each stack emission from a PSH operation, vent from a building enclosing a PSH operation, or set of multiple storage bins with combined stack emissions, which is subject to a PM emission limit.	Measure PM emissions...	Method 5 or Method 17 in appendix A to part 60 of this chapter.	The sample volume must be at least 1.70 dscm (60 dscf); for Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters; and if the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 °C (250 °F), to prevent water condensation on the filter (Method 17 may be used only with exhaust gas temperatures of not more than 250 °F).
13. Each stack emission from a PSH operation, vent from a building enclosing a PSH operation, or set of multiple storage bins with combined stack emissions, which is subject to an opacity limit.	Conduct opacity observations.	Method 9 in appendix A to part 60 of this chapter.	The test duration must be for at least 3 hours and you must obtain at least thirty, 6-minute averages.
14. Each stack emissions source from	Establish the average	Data for the gas stream	The pressure drop

a PSH operation subject to a PM or opacity limit, which uses a wet scrubber.

gas stream pressure drop across the wet scrubber.

pressure drop measurement device during the PSH operation stack PM performance test.

measurement device must be accurate within plus or minus 1 percent; you must collect the pressure drop data during the period of the performance test and determine the operating limit according to § 63.7112(j).

15. Each stack emissions source from a PSH operation subject to a PM or opacity limit, which uses a wet scrubber.

Establish the operating limit for the average liquid flow rate to the scrubber.

Data from the liquid flow rate measurement device during the PSH operation stack PM performance test.

The continuous scrubbing liquid flow rate measuring device must be accurate within plus or minus 1 percent; you must collect the flow rate data during the period of the performance test and determine the operating limit according to § 63.7112(j).

16. Each FF that controls emissions from only an individual, enclosed, new or existing storage bin.

Conduct opacity observations.

Method 9 in appendix A to part 60 of this chapter.

The test duration must be for at least 1 hour and you must obtain ten 6-minute averages.

17. Fugitive emissions from any PSH operation subject to an opacity limit.

Conduct opacity observations.

Method 9 in appendix A to part 60 of this chapter.

The test duration must be for at least 3 hours, but the 3-hour test may be reduced to 1 hour if, during the first 1-hour period, there are no individual readings greater than 10 percent opacity and there are no more than three readings of 10 percent during the first 1-hour period.

18. Each building enclosing any PSH operation, that is subject to a VE limit.

Conduct VE check.....

The specifications in § 63.7112(k).

The performance test must be conducted while all affected PSH operations within the building are operating; the performance test for each affected building must be at least 75 minutes, with each side of the building and roof being

observed for at least  
15 minutes.

Table 5 to Subpart AAAAA of Part 63—Continuous Compliance with Operating Limits

As required in §63.7121, you must demonstrate continuous compliance with each operating limit that applies to you, according to the following table:

For . . .	For the following operating limit . . .	You must demonstrate continuous compliance by . . .
2. Each lime kiln or lime cooler equipped with a FF and using a BLDS, and each lime kiln equipped with an ESP or FF using a PM detector.	a. Maintain and operate the FF or ESP such that the bag leak or PM detector alarm, is not activated and alarm condition does not exist for more than 5 percent of the total operating time in each 6-month period.	(i) Operating the FF or ESP so that the alarm on the bag leak or PM detection system is not activated and an alarm condition does not exist for more than 5 percent of the total operating time in each 6-month reporting period; and continuously recording the output from the BLD or PM detection system; and (ii) Each time the alarm sounds and the owner or operator initiates corrective actions within 1 hour of the alarm, 1 hour of alarm time will be counted (if the owner or operator takes longer than 1 hour to initiate corrective actions, alarm time will be counted as the actual amount of time taken by the owner or operator

4. For each lime kiln or lime cooler equipped with a FF or an ESP that uses a COMS as the monitoring device.
- a. Maintain and operate the FF or ESP such that the average opacity for any 6-minute block period does not exceed 15 percent.
- i. Installing, maintaining, calibrating and operating a COMS as required by 40 CFR part 63, subpart A, General Provisions and according to PS-1 of appendix B to part 60 of this chapter, except as specified in § 63.7113(g)(2); and
- ii. Collecting the COMS data at a frequency of at least once every 15 seconds, determining block averages for each 6-minute period and demonstrating for each 6-minute block period the average opacity does not exceed 15 percent.

-----

**Table 6 to Subpart AAAAA of Part 63—Periodic Monitoring for Compliance With Opacity and Visible Emissions Limits**

**As required in §63.7121 you must periodically demonstrate compliance with each opacity and VE limit that applies to you, according to the following table:**

For...	For the following emission limitation..	You must demonstrate ongoing compliance ...
1. Each PSH operation subject to an opacity limitation	a. 7-10 percent opacity, depending on the PSH	(i) Conducting a monthly 1-minute VE check of each emission unit in accordance with § 63.7121(e); the check must be conducted while the affected source is in operation; (ii) If no VE are observed in 6 consecutive

<p>as required in Table 1 to this subpart, or any vents from buildings subject to an opacity limitation.</p>	<p>operation, as required in Table 1 to this subpart.</p>	<p>monthly checks for any emission unit, you may decrease the frequency of VE checking from monthly to semi-annually for that emission unit; if VE are observed during any semiannual check, you must resume VE checking of that emission unit on a monthly basis and maintain that schedule until no VE are observed in 6 consecutive monthly checks;</p> <p>(iii) If no VE are observed during the semiannual check for any emission unit, you may decrease the frequency of VE checking from semi-annually to annually for that emission unit; if VE are observed during any annual check, you must resume VE checking of that emission unit on a monthly basis and maintain that schedule until no VE are observed in 6 consecutive monthly checks; and</p> <p>(iv) If VE are observed during any VE check, you must conduct a 6-minute test of opacity in accordance with Method 9 of appendix A to part 60 of this chapter; you must begin the Method 9 test within 1 hour of any observation of VE and the 6-minute opacity reading must not exceed the applicable opacity limit.</p>
<p>2. Any building subject to a VE limit, according to item 8 of Table 1 to this subpart.</p>	<p>a. No VE...</p>	<p>(i) Conducting a monthly VE check of the building, in accordance with the specifications in §63.7112(k); the check must be conducted while all the enclosed PSH operations are operating;</p> <p>(ii) The check for each affected building must be at least 5 minutes, with each side of the building and roof being observed for at least 1 minute;</p> <p>(iii) If no VE are observed in 6 consecutive monthly checks of the building, you may decrease the frequency of checking from monthly to semi-annually for that affected source; if VE are observed during any semi-annual check, you must resume checking on a monthly basis and maintain that schedule until no VE are observed in 6 consecutive monthly checks; and</p> <p>(iv) If no VE are observed during the semi-annual check, you may decrease the frequency of checking from semi-annually to annually for that affected source; and if VE are observed during any annual check, you must resume checking of that emission unit on a monthly basis and maintain that schedule until no VE are observed in 6 consecutive monthly checks (the source is in compliance if no VE are observed during any of these checks).</p>

Table 7 to Subpart AAAAA of Part 63—Requirements for Reports

As required in §63.7131, you must submit each report in this table that applies to you.

-----  
 The report must                      You must submit

You must submit a . . . contain . . . the report . . .

- 
1. Compliance report.....
- a. If there are no deviations from any emission limitations (emission limit, operating limit, opacity limit, and VE limit) that applies to you, a statement that there were no deviations from the emission limitations during the reporting period; Semiannually according to the requirements in § 63.7131(b).
  - b. If there were no periods during which the CMS, including any operating parameter monitoring system, was out-of-control as specified in § 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period; Semiannually according to the requirements in § 63.7131(b).
  - c. If you have a deviation from any emission limitation (emission limit, operating limit, opacity limit, and VE limit) during the reporting period, the report must contain the information in § 63.7131(d); Semiannually according to the requirements in § 63.7131(b).
  - d. If there were periods during which the CMS, including any operating parameter monitoring system, was out- Semiannually according to the requirements in § 63.7131(b).

of-control, as specified in § 63.8(c)(7), the report must contain the information in § 63.7131(e); and

e. If you had a startup, shutdown or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in § 63.10(d)(5)(i).

Semiannually according to the requirements in § 63.7131(b).

2. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your SSMP.

Actions taken for the event.

By fax or telephone within 2 working days after starting actions inconsistent with the SSMP.

3. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your SSMP.

The information in § 63.10(d)(5)(ii).

By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authority. See § 63.10(d)(5)(ii).

**E.1.3 One Time Deadlines Relating to National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants Requirements [40 CFR Part 63, Subpart AAAAA]**

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Notification of Intent to Conduct Performance Test	40 CFR 63.7(b)(1)	lime kilns	11/6/06
Initial Performance Test	40 CFR 63.7083(b) 40 CFR 63.7110(a)	lime kilns	1/5/07
Notification of Compliance Status	40 CFR 63.9(h)(2)(ii)	lime kilns, PSH	3/5/07

7. The "Responsible Official" information has been removed from Section A.1 of the permit.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary lime manufacturing plant.

<del>Responsible Official:</del>	<del>Area Operations Manager</del>
Source Address:	One North Carmeuse Drive, Gary, Indiana 46402
Mailing Address:	One North Carmeuse Drive, Gary, Indiana 46402
Source Phone Number:	773-978-5349
SIC Code:	3274
County Location:	Lake
Source Location Status:	Nonattainment for PM <sub>2.5</sub> and 8-hour ozone standards Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Major Source under PSD and Emission Offset Rules Major Source under Section 112 of the Clean Air Act 1 of 28 Source Categories

<b>Conclusion</b>
-------------------

This permit modification shall be subject to the conditions of the attached Part 70 Significant Permit Modification No. 089-23750-00112.