



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant

DATE: September 4, 2009

RE: Hammond Group, Inc. / 089-28377-00219

FROM: Matthew Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

## Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires 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 of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from 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.

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.

Enclosures  
FNPER-AM.dot12/3/07



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Ms. Jean Ziga  
Hammond Group, Inc.  
2323 165th Street  
Hammond, IN 46320

September 4, 2009

Re: 089-28377-00219  
First Administrative Amendment to  
F089-14165-00219

Dear Ms. Ziga:

Hammond Group, Inc. (Permittee) was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F089-14165-00219 on September 11, 2008 for a stationary industrial inorganic chemicals and inorganic pigments manufacturing plant located at 2308 165th Street, Hammond, Indiana 46320. On August 24, 2009, the Office of Air Quality (OAQ) received an application from the source requesting that the permit be revised to remove all requirements related to local air pollution control agencies. Local agencies no longer have effective authority to implement state and federal requirements for IDEM. Therefore, IDEM has removed all references to local agencies from the permit. IDEM has determined that this change to the permit will be processed as an administrative amendment pursuant to 326 IAC 2-8-10.

The revised permit specifies that all reports, notices, applications, and any other required submittals shall be submitted to IDEM. The Permittee should note that the local agency could have its own requirements beyond the state and federal requirements contained in the permit. Please contact the local agency for further information.

Pursuant to the provisions of 326 IAC 2-8-10, the permit is hereby administratively amended as follows with the deleted language as ~~strikeouts~~ and new language **bolded**.

1. All references to local agencies have been removed from the permit.
2. The following conditions have been revised to clarify the requirements of the permit.

...  
B.4 Enforceability [326 IAC 2-8-6]

~~(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 HDEM~~, 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 HDEM.~~

...  
B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

...  
(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. A ~~basic filing fee of one hundred dollars (\$100) shall be submitted with any request for an~~

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit. A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Brian Williams, of my staff, at 317-234-5375 or 1-800-451-6027, and ask for extension 4-5375.

Sincerely,



Iryn Calilung, Section Chief  
Permits Branch  
Office of Air Quality

Attachments: Updated Permit

IC/BMW

cc: File - Lake County  
Lake County Health Department  
U.S. EPA, Region V  
Compliance and Enforcement Branch  
Billing, Licensing and Training Section

~~administrative amendment submitted to HDEM for review. [326 IAC 2-8-10(b)(3)] [326 IAC 2-1.1-10(d)]~~

...

~~C.19 Emission Reporting [326 IAC 2-8-4(3)] [Hammond Ordinance No. 7102]~~

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- ~~(a) The Permittee shall submit an annual emission inventory containing production information, fuel usage and estimated actual emissions of criteria pollutants. The emission inventory must be received by April 15<sup>th</sup> of each year. The submittal should cover the twelve (12) consecutive month time period starting January 1 and ending December 31. This is a local requirement only. The emission inventory must be submitted to:~~

~~Hammond Department of Environmental Management  
5925 Calumet Avenue - Room 304  
Hammond, Indiana 46320~~

~~This inventory does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

- ~~(b) The emission inventory 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 HDEM on or before the date it is due.~~

~~C.2019 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]~~

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~~C.240 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]~~

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...

~~C.221 Compliance with 40 CFR 82 and 326 IAC 22-1~~

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...

~~D.1.2 Particulate Matter (PM) [Hammond Air Quality Control Ordinance No. 3522 (as amended)] [326 IAC 2-2]~~

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended) In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 1-S-52 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.~~

~~D.1.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [Hammond Air Quality Control Ordinance No. 3522 (as amended)] [326 IAC 2-3] [326 IAC 2-1.1-5] [326 IAC 2-8-4]~~

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended) 326 IAC 2-8-4, PM2.5 emissions from Stack ID 1-S-52 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-3 (Emission Offset) and 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.~~

...

~~D.2.2 Particulate Matter (PM) [Hammond Air Quality Control Ordinance No. 3522 (as amended)] [326 IAC 2-2]~~

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended) In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.250 lbs/hr, per stack. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.~~

D.2.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-3~~] [~~326 IAC 2-1.1-5~~] [**326 IAC 2-8-4**]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.250 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) and **326 IAC 2-7 (Part 70 Permit Program)** do not apply.

...

D.3.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-2~~]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack ID 16-S-56 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.3.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-3~~] [~~326 IAC 2-1.1-5~~] [**326 IAC 2-8-4**]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack ID 16-S-56 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) and **326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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D.4.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-2~~]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack ID 4-S-35 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.570 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.4.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-3~~] [~~326 IAC 2-1.1-5~~] [**326 IAC 2-8-4**]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack ID 4-S-35 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.570 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) and **326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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D.5.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-2~~]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack 1-S-27 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.290 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.5.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-3~~] [~~326 IAC 2-1.1-5~~] [**326 IAC 2-8-4**]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack 1-S-27 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.290 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

...  
D.6.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack ID 6-S-33 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.900 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.6.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack ID 6-S-33 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.900 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

...  
D.7.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack ID 4B-S-34 shall be set equal to the PM10 emissions limit, 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.7.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack ID 4B-S-34 shall be set equal to the PM10 emissions limit, 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

...  
D.8.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack ID 6-S-47 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.8.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**

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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack ID 6-S-47 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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- D.9.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]
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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack ID 14-S-15 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.320 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.9.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**
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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack ID 14-S-15 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.320 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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- D.10.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]
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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack IDs 20-S-37 and 20-S-42 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.200 lbs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.10.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**
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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack IDs 20-S-37 and 20-S-42 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.200 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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- D.11.2 Particulate Matter less than 10 microns in diameter (PM10) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-8-4] [326 IAC 2-2]
- 

~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, the PM10 emissions from Stack IDs 18-S-49 and 18-S-24 shall be set equal to the PM emissions limit, 0.01 gr/dscf and 0.129 lbs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.11.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**
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~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack IDs 18-S-49 and 18-S-24 shall be set equal to the PM emissions limit, 0.01 gr/dscf and 0.129 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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- D.11.5 Record Keeping Requirements
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- (a) To document compliance with Conditions D.11.1, D.11.2 and D.11.3, the Permittee shall maintain monthly records of the fuel usage for each boiler. These records shall be made available upon request by ~~HDEM~~ **IDEM**.

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- D.12.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-2]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack 13-S-48 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.12.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack 13-S-48 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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- D.13.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-2]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack ID 14-S-45 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.13.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack ID 14-S-45 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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- D.14.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-2]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack IDs 17-S-25 and 17-S-40 shall be set equal to the PM10 emission limit, 0.030 gr/dscf and 2.120 lbs/hr, per stack. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.14.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [326 IAC 2-3] [326 IAC 2-1.1-5] **[326 IAC 2-8-4]**

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack IDs 17-S-25 and 17-S-40 shall be set equal to the PM10 emission limit, 0.030 gr/dscf and 2.120 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

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- D.15.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack IDs 20-S-36 and 20-S-41 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.395 lbs/hr and 0.022 gr/dscf and 0.450 lbs/hr, respectively. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.15.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-3~~] [~~326 IAC 2-1.1-5~~] [**326 IAC 2-8-4**]

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Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack IDs 20-S-36 and 20-S-41 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.395 lbs/hr and 0.022 gr/dscf and 0.450 lbs/hr, respectively. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

...

- D.16.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]

---

Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack IDs 20-S-39 and 20-S-44 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.496 lbs/hr, per stack. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.16.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-3~~] [~~326 IAC 2-1.1-5~~] [**326 IAC 2-8-4**]

---

Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack IDs 20-S-39 and 20-S-44 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.496 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

...

- D.17.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]

---

Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack IDs 20-S-38 and 20-S-43 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.087 lbs/hr, per stack. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.17.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-3~~] [~~326 IAC 2-1.1-5~~] [**326 IAC 2-8-4**]

---

Pursuant to the ~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack IDs 20-S-38 and 20-S-43 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.087 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC 2-1.1-5 (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

...  
D.18.2 Particulate Matter (PM) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~]  
[326 IAC 2-2]

---

~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **In order to render 326 IAC 2-2 not applicable**, particulate matter emissions from Stack ID V-1 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.18.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [~~Hammond Air Quality Control Ordinance No. 3522 (as amended)~~] [~~326 IAC 2-3~~] [~~326 IAC 2-1.1-5~~] **[326 IAC 2-8-4]**

---

~~Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended)~~ **326 IAC 2-8-4**, PM2.5 emissions from Stack ID V-1 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of ~~326 IAC 2-3 (Emission Offset)~~ and 326 IAC (Nonattainment NSR) **and 326 IAC 2-7 (Part 70 Permit Program)** do not apply.

...  
3. Several of IDEM's branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to "Permit Administration and Development Section" and the "Permits Branch" have been changed to "Permit Administration and Support Section". References to "Asbestos Section", "Compliance Data Section", "Air Compliance Section", and "Compliance Branch" have been changed to "Compliance and Enforcement Branch". The permit has been revised as follows:

Indiana Department of Environmental Management  
**Permit Administration and Support Section**, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management  
**Compliance and Enforcement Branch**, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

5. IDEM, OAQ is revising Section B - Emergency Provisions to allow the Permittee to reference a previously reported emergency under paragraph (b)(5) in the Quarterly Deviation and Compliance Monitoring Report.

...  
B.12 Emergency Provisions [326 IAC 2-8-12]

---

....  
(h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report. **Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by an "authorized individual" need only referenced by the date of the original report.**

6. IDEM has decided to reference 326 IAC 2 in Section B-Source Modification Requirements, rather than specific construction rule.

...  
B.20 Source Modification Requirement [326 IAC 2-8-11.1]

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2-~~and 326 IAC 2-8-11.4.~~

...

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit. A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: [www.idem.in.gov](http://www.idem.in.gov)

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Brian Williams, of my staff, at 317-234-5375 or 1-800-451-6027, and ask for extension 4-5375.

Sincerely,

Iryn Calilung, Section Chief  
Permits Branch  
Office of Air Quality

Attachments: Updated Permit

IC/BMW

cc: File - Lake County  
Lake County Health Department  
U.S. EPA, Region V  
Compliance and Enforcement Branch  
Billing, Licensing and Training Section



**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

**Federally Enforceable State Operating Permit Renewal**

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

**Hammond Group, Inc. (HGI)  
2308 – 165<sup>th</sup> Street  
Hammond, Indiana 46320**

(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 reissuance, or modification; or denial of a permit renewal application. 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.**

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 FESOP under 326 IAC 2-8.

This permit is issued in accordance with 326 IAC 2 and 40 CFR 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 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.

Operation Permit No.: F089-14165-00219	
Issued by: Original signed by: Ronald L. Novak, Director Hammond Department of Environmental Management	Issuance Date: September 11, 2008 Expiration Date: September 11, 2018

First Administrative Amendment No.: 089-28377-00219	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: September 4, 2009 Expiration Date: September 11, 2018

Office of Air Quality	
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**Stratospheric Ozone Protection**

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

**SECTION D.1 FACILITY OPERATION CONDITIONS**

Stack ID 1-S-52 39

No. 1 Barton System, Furnace Systems No. 1, 2, 10, 3, 4, 5, 6, 8, & 9, Mill Systems,  
Air Conveying System, Lead Oxide Bulk Loading, Bulk Loading System, & Lead Oxide Bulk Loading  
North, Mykro Mill, Rail Car Loading, and Glass Additive Drying Process

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

D.1.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]  
D.1.2 Particulate Matter (PM) [326 IAC 2-2]  
D.1.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC  
2-8-4]  
D.1.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]  
D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

D.1.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]  
D.1.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]  
D.1.8 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

D.1.9 Visible Emissions Notations  
D.1.10 Baghouse and HEPA Parametric Monitoring  
D.1.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

D.1.12 Record Keeping Requirements

**SECTION D.2 FACILITY OPERATION CONDITIONS**

Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26 No. 2, 3, 4, 5, & 6 Barton Systems 45

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

D.2.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]

- D.2.2 Particulate Matter (PM) [326 IAC 2-2]
- D.2.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.2.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]
- D.2.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.2.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]
- D.2.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]
- D.2.8 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.2.9 Visible Emissions Notations
- D.2.10 Baghouse and HEPA Parametric Monitoring
- D.2.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.2.12 Record Keeping Requirements

**SECTION D.3 FACILITY OPERATION CONDITIONS**

Stack ID 16-S-56

49

400Y Furnace System, Lead Oxide Pneumatic Conveyor System, Lead Oxide Bulk Loading System, Direct Car Loading System, Flash Calciner System, and Non-Lead Glass Process

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.3.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]
- D.3.2 Particulate Matter (PM) [326 IAC 2-2]
- D.3.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.3.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]
- D.3.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.3.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]
- D.3.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]
- D.3.8 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.3.9 Visible Emissions Notations
- D.3.10 Baghouse and HEPA Parametric Monitoring
- D.3.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.3.12 Record Keeping Requirements

**SECTION D.4 FACILITY OPERATION CONDITIONS**

Stack ID 4-S-35 B-Furnace Drying System

54

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.4.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]
- D.4.2 Particulate Matter (PM) [326 IAC 2-2]
- D.4.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.4.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]
- D.4.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.4.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]
- D.4.7 Particulate Matter less than 10 microns in diameter (PM10) [326 2-8-5(4)]
- D.4.8 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.4.9 Visible Emissions Notations
- D.4.10 Baghouse and HEPA Parametric Monitoring
- D.4.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.4.12 Record Keeping Requirements

**SECTION D.5 FACILITY OPERATION CONDITIONS**

Stack ID 1-S-27 Lead Oxide Mill

58

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.5.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.5.2 Particulate Matter (PM) [326 IAC 2-2]
- D.5.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.5.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]
- D.5.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.5.6 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]
- D.5.7 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.5.8 Visible Emissions Notations
- D.5.9 Baghouse and HEPA Parametric Monitoring
- D.5.10 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.5.11 Record Keeping Requirements

**SECTION D.6 FACILITY OPERATION CONDITIONS**

Stack ID 6-S-33 B-Furnace System

61

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.6.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.6.2 Particulate Matter (PM) [326 IAC 2-2]
- D.6.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.6.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]
- D.6.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.6.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]
- D.6.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]
- D.6.8 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.6.9 Visible Emissions Notations
- D.6.10 Baghouse and HEPA Parametric Monitoring
- D.6.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.6.12 Record Keeping Requirements

**SECTION D.7 FACILITY OPERATION CONDITIONS**

Stack ID 4B-S-34 B-Furnace Mill and Blending System and Glass Concepts Process 65

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.7.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.7.2 Particulate Matter (PM) [326 IAC 2-2]
- D.7.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.7.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]
- D.7.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.7.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]
- D.7.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]
- D.7.8 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.7.9 Visible Emissions Notations
- D.7.10 Baghouse and HEPA Parametric Monitoring
- D.7.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.7.12 Record Keeping Requirements

**SECTION D.8 FACILITY OPERATION CONDITIONS**

Stack ID 6-S-47 S-Furnace Operation 69

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.8.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.8.2 Particulate Matter (PM) [326 IAC 2-2]
- D.8.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.8.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]
- D.8.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.8.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]
- D.8.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]
- D.8.8 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.8.9 Visible Emissions Notations
- D.8.10 Baghouse and HEPA Parametric Monitoring
- D.8.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.8.12 Record Keeping Requirements

**SECTION D.9 FACILITY OPERATION CONDITIONS**

Various Stacks previously Stack ID 14-S-15

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Expander Operation: Alpha BM Line, Beta BM Line, and Mixer Line

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.9.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.9.2 Particulate Matter (PM) [326 IAC 2-2]
- D.9.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC  
2-8-4]
- D.9.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.9.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.9.6 Visible Emissions Notations
- D.9.7 Dust Collector Parametric Monitoring
- D.9.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.9.9 Record Keeping Requirements

**SECTION D.10 FACILITY OPERATION CONDITIONS**

Stack IDs 20-S-37 and 20-S-42 South and North Mill Charging Systems

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**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.10.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.10.2 Particulate Matter (PM) [326 IAC 2-2]
- D.10.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC  
2-8-4]
- D.10.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.10.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.10.6 Visible Emissions Notations
- D.10.7 Baghouse Parametric Monitoring
- D.10.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.10.9 Record Keeping Requirements

#### **SECTION D.11 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY**

Stack IDs 18-S-49 and 18-S-24 Cleaver Brooks Boiler No. 2 and No. 1 80

##### **Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.11.1 Particulate Matter (PM) [326 6.8-1-2(b)(3)] [326 IAC 2-2]
- D.11.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-4] [326 IAC 2-2]
- D.11.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

##### **Compliance Determination Requirements**

- D.11.4 Particulate Matter (PM) [326 IAC 6.8-1-2(b)(3)] [326 IAC 6.8-2-13(b)]

##### **Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.11.5 Record Keeping Requirements

#### **SECTION D.12 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY**

Stack ID 13-S-48 82  
Wet Mixing North and South Systems, Rust Inhibitor Process, and Liquid Stain Inhibitor Process

##### **Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.12.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]
- D.12.2 Particulate Matter (PM) [326 IAC 2-2]
- D.12.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.12.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

##### **Compliance Determination Requirements**

- D.12.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

##### **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.12.6 Visible Emissions Notations
- D.12.7 Baghouse and HEPA Parametric Monitoring
- D.12.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

##### **Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.12.9 Record Keeping Requirements

#### **SECTION D.13 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY**

Stack ID 14-S-45 Packing Operation North and South 86

##### **Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.13.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]
- D.13.2 Particulate Matter (PM) [326 IAC 2-2]
- D.13.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.13.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

##### **Compliance Determination Requirements**

- D.13.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.13.6 Visible Emissions Notations
- D.13.7 Baghouse Parametric Monitoring
- D.13.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.13.9 Record Keeping Requirements

**SECTION D.14 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY**

Stack IDs 17-S-25 and 17-S-40 North and South Drum Dryer Systems 89

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.14.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.14.2 Particulate Matter (PM) [326 IAC 2-2]
- D.14.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC  
2-8-4]
- D.14.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.14.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.14.6 Visible Emissions Notations
- D.14.7 Scrubber Parametric Monitoring
- D.14.8 Scrubber Failure Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.14.9 Record Keeping Requirements

**SECTION D.15 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY**

Stack IDs 20-S-36 and 20-S-41 South and North Drum Dryer Silo Systems 92

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.15.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.15.2 Particulate Matter (PM) [326 IAC 2-2]
- D.15.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC  
2-8-4]
- D.15.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.15.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.15.6 Visible Emissions Notations
- D.15.7 Baghouse Parametric Monitoring
- D.15.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.15.9 Record Keeping Requirements

#### **SECTION D.16 FACILITY OPERATION CONDITIONS – TRIVIAL ACTIVITY**

Stack IDs 20-S-39 and 20-S-44 South and North Product Packing 95

##### **Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.16.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.16.2 Particulate Matter (PM) [326 IAC 2-2]
- D.16.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.16.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

##### **Compliance Determination Requirements**

- D.16.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

##### **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.16.6 Visible Emissions Notations
- D.16.7 Baghouse and HEPA Parametric Monitoring
- D.16.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

##### **Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.16.9 Record Keeping Requirements

#### **SECTION D.17 FACILITY OPERATION CONDITIONS – TRIVIAL ACTIVITY**

Stack IDs 20-S-38 and 20-S-43 Finished Product West and East Holding Tanks 98

##### **Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.17.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.17.2 Particulate Matter (PM) [326 IAC 2-2]
- D.17.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.17.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

##### **Compliance Determination Requirements**

- D.17.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

##### **Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.17.6 Visible Emissions Notations
- D.17.7 Baghouse Parametric Monitoring
- D.17.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

##### **Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.17.9 Record Keeping Requirements

#### **SECTION D.18 FACILITY OPERATION CONDITIONS – TRIVIAL ACTIVITY**

Stack ID V-1 General Building Ventilation Control System 101

##### **Emission Limitations and Standards [326 IAC 2-8-4(1)]**

- D.18.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)]  
[326 IAC 2-8-4] [326 IAC 2-2]
- D.18.2 Particulate Matter (PM) [326 IAC 2-2]
- D.18.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]
- D.18.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]
- D.18.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

**Compliance Determination Requirements**

- D.18.6 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]
- D.18.7 Lead (Pb) [326 IAC 2-8-5(4)]

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

- D.18.8 Visible Emissions Notations
- D.18.9 HEPA Parametric Monitoring
- D.18.10 Failed HEPA Filter Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

- D.18.11 Record Keeping Requirements

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## 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 2-8-3(b)]

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The Permittee owns and operates a stationary Industrial Inorganic Chemicals and Inorganic Pigments Manufacturing Plant.

Source Address:	2308 – 165 <sup>th</sup> Street, Hammond, Indiana 46320
Mailing Address:	2323 – 165 <sup>th</sup> Street, Hammond, Indiana 46320
General Source Phone:	(219) 845-0031
SIC Code:	2819 – Industrial Inorganic Chemicals, nec 2869 – Industrial Organic Chemicals, nec 2816 – Inorganic Pigments
Source Location Status:	Lake County
County Status:	Nonattainment for PM2.5 and 8-hour ozone Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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

Note: Bin vent filters and bag filters located at HGI are the same as or equivalent to baghouses. All of the baghouses are the reverse jet air pulse type and contain filter bags supported by wire cages.

### **Stack ID 1-S-52**

This stack is identified as the Main Control System. This control system is comprised of four (4) units in parallel. Each unit includes a baghouse and a HEPA. Each unit is rated at 99.9998% control efficiency according to the company. The following units are controlled by the Main Control System control equipment, except when otherwise specified.

Stack I-S-52 is used to vent the control device exhausts from various processes.

#### 1. Unit ID 52-1: No. 1 Barton System

The Barton System consists of a melt kettle, barton reactor, settling device, and interconnecting conveyors. Lead ingots are charged into an enclosed melt kettle which is indirectly heated by either natural gas or propane burners. The molten lead is continuously fed into the barton reactor where it is atomized and oxidized into lead oxide. The oxide is drawn through a settling device and then conveyed to further processing.

Emission units associated with Unit ID 52-1 were installed in 1930.

2. Unit IDs 52-2 through 52-10: Furnace Systems No. 1, 2, 10, 3, 4, 5, 6, 8, & 9 (Insignificant Activities)

Each Furnace System consists of feed hoppers, batch furnace, and interconnecting conveyors. Each furnace is an indirectly heated, natural gas or propane fired, batch furnace which completes the oxidation of the lead oxide.

Emission units associated with Unit IDs 52-2, 52-3, 52-6, 52-7 were installed in 1930.  
Emission units associated with Unit ID 52-4 were installed in 1980.  
Emission units associated with Unit IDs 52-5 were installed in 1971.  
Emission units associated with Unit IDs 52-8 were installed in 1955.  
Emission units associated with Unit IDs 52-9 were installed in 1957.  
Emission units associated with Unit IDs 52-10 were installed in 1972.

3. Unit IDs 52-11 through 52-13: Mills Systems (Insignificant Activities: 52-12 & 52-13)

Each Mill System consists of a feed hopper, mill, cyclone (Unit IDs 52-11 and 52-12 only), and interconnecting conveyors. Lead Oxide is conveyed to the mill feed hopper from where it is metered into the mill. The air and product from the mill are conveyed to a cyclone. Air from the cyclone is returned to the mill. The oxide is conveyed to the packing station, the North bulk loading storage hopper or for further processing.

Emission units associated with Unit IDs 52-11 and 52-12 were installed in 1930.  
Emission units associated with Unit ID 52-13 were installed in 1957.

4. Unit ID 52-14: Air Conveying System (Trivial Activity)

The Air Conveying System consists of a hopper, pressure blowers, and pipes. For the blower 1 system, lead oxide is conveyed to a hopper from which the material is fed through an air lock rotary valve into the pipe. Pressurized air from the blower conveys the material to storage silos. Blower 2 is used to blow material from the 6 Barton mill to storage silos. Material can also be blown from the 4 Barton mill to storage silos.

Emission units associated with Unit ID 52-14 were installed in 1983.

Unit 52-14 is not controlled by the Main Control System. It is controlled by two baghouses followed by a HEPA system which exhausts through stack 1-S-52.

5. Unit ID 52-15, 16 & 19: Lead Oxide Bulk Loading, Bulk Loading System, & Lead Oxide Bulk Loading – North (Insignificant Activities: 52-15 & 52-16)

Each Bulk Loading System consists of a bulk storage silo, conveyors, and a loading spout. A pneumatic bulk trailer is spotted under the telescopic loading spout. The spout is lowered to the trailer hatch. Material is fed from a bulk storage silo through sealed conveyors into the trailer.

Emission units associated with Unit ID 52-15 were installed in 1960.  
Emission units associated with Unit ID 52-16 were installed in 1983.  
Emission units associated with Unit ID 52-19 were installed in September, 1995.

Unit ID 52-16 is not controlled by the Main Control System. It is controlled by two baghouses followed by a HEPA system which exhausts through stack 1-S-52.

6. Unit ID 52-17: Mykro Mill (Insignificant Activity)

The Mykro Mill consists of two high efficiency cyclones that separate lead oxide into a fine lead oxide product and a coarse lead oxide product. Lead oxide from a barton is conveyed to the feed hopper from which it is fed through an air lock rotary valve into the Mykro Mill. The fine lead oxide is packed into containers and the coarse lead oxide can either be recycled or packed into containers.

Emission units associated with Unit ID 52-17 were installed in November, 1989.

7. Unit ID 52-20: Rail Car Loading

The Rail Car Loading operation consists of a covered railroad hopper car, loading device, and a dust collection device. A rail car is spotted at the loading area and the loading device and dust collection device are put in place. Tote bins containing material are then lifted above the loading device and discharged into the car.

Emission units associated with Unit 52-20 were installed in 1960.

8. Unit ID 52-21: Glass Additive Drying Process

The Glass Additive Drying Process consists of a bin unloading station, drying screw, heated mixer, bin packing station, and interconnecting conveyors. The mixer is an indirectly heated natural gas fired (with propane as an alternative fuel), unit used to remove the water from the glass additive. The dried glass additive is then packed.

Emission units associated with Unit ID 52-21 were installed in 2002.

Unit 52-21 is controlled by a baghouse followed by a HEPA followed by the Main Control System.

**Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26**

1. Unit IDs 8-1, 16-1, 2-1, 26-1, & 26-2: No. 2, 3, 4, 5, & 6 Barton Systems

Each Barton System consists of a melt kettle, barton reactor, settling device, and interconnecting conveyors. Lead ingots are charged into an enclosed melt kettle which is indirectly heated by either natural gas or propane burners. The molten lead is continuously fed into the barton reactor where it is atomized and oxidized into lead oxide. The oxide is drawn through a settling device and then conveyed to further processing.

Emission units associated with Unit ID 8-1 were installed in 1958.

Emission units associated with Unit ID 16-1 were installed in 1972.

Emission units associated with Unit ID 2-1 were installed in 1974.

Emission units associated with Unit ID 26-1 were installed in 1977 and those associated with Unit ID 26-2 were installed in July, 1995.

Each system is controlled by a baghouse & HEPA system.

**Stack ID 16-S-56**

1. Unit ID 56-1: 400Y Furnace System

The 400Y Furnace System is a direct, natural gas or propane fired reverberatory type furnace. The lead oxide is melted in this furnace and then converted to pelletized lead oxide. After

appropriate classification, the finished product is screw conveyed to the packing hopper and packed.

Emission units associated with Unit ID 56-1 were installed in 1971.

This unit is controlled by the 16-S-56 Control System which includes six (6) baghouse & HEPA systems.

2. Unit ID 56-3: Lead Oxide Pneumatic Conveyor System

The Pneumatic Conveyor System consists of a hopper, pressure blower, and a pipe. Lead oxide is conveyed to a hopper from which the material is fed through an air lock rotary valve and into the pipe. Pressurized air from the blower conveys the material to a storage silo.

Emission units associated with Unit ID 56-3 were installed in 1977.

This unit is controlled by a baghouse & HEPA system.

3. Unit ID 56-4: Lead Oxide Bulk Loading System

The Bulk Loading System consists of a bulk storage silo, conveyors, and a loading spout. A pneumatic bulk trailer is spotted under the telescopic loading spout. The spout is lowered to the trailer hatch. Material is fed from a bulk storage silo through sealed conveyors into the trailer.

Emission units associated with Unit ID 56-4 were installed in 1977.

This unit is controlled by a baghouse & HEPA system.

4. Unit ID 56-7: Direct Car Loading System

The Direct Car Loading System consists of two storage silos, two weigh hoppers, a loading spout, a bin dump station, and interconnecting conveyors. Material is conveyed to one of two storage silos from where it can be loaded into a rail car, bulk truck, or tote bin.

Emission units associated with Unit 56-7 were installed in June, 1999.

This unit is controlled by a baghouse & HEPA system.

5. Unit ID 56-9: Flash Calciner System

The Flash Calciner system consists of a feed hopper, natural gas (propane alternative) calciner, process bag filter, Sweco separator, packer and interconnecting conveyors. Lead oxide from the bartons or tote bins is fed into a heated air stream. The material then passes through a process bag filter, a rotary valve and to either the 400Y furnace or through a Sweco separator. Following the Sweco, the material is either packed out or sent to storage tanks.

Emission units associated with Unit ID 56-9 were installed in May, 2006.

This unit is controlled by a baghouse & HEPA system.

6. Unit ID 56-10: Non-Lead Glass Process

The Non-Lead Glass Process consists of a natural gas (propane alternative) fired furnace, wet ball mill, wet sweco, mixing tank, and interconnecting conveyors. Glass frit from the furnace is milled, separated, and sent to a mix tank. The mix tank feeds the glass product spray dryer.

Emission units associated with Unit ID 56-10 were installed in May, 2006.

This unit is controlled by a cartridge filter.

#### **Stack ID 4-S-35**

1. Unit ID 35-1: B-Furnace Drying System

The B-Furnace Drying System consists of a mixer, drying screw, sizing screen, oversize material crusher, and packing system. The mixer blends raw materials used for feedstock for the furnace. Material from the furnace is continuously conveyed from the fritting device through a natural gas or propane heated drying screw to remove excess moisture. The dried material is then conveyed to a classifying screen. The screened material is then conveyed to packing.

Emission units associated with Unit ID 35-1 were installed in 1955.

This unit is controlled by a baghouse & HEPA system.

#### **Stack ID 1-S-27**

1. Unit ID 27-1: Lead Oxide Mill

The Lead Oxide Mill consists of a mill feed hopper, impact mill, cyclone, source bin, packing hopper, and packing station. Lead oxide is conveyed to the mill feed hopper from where it is metered into the mill for grinding. The mill is an impact, air swept type grinding mill. The air and product from the mill are conveyed to a cyclone. Air from the cyclone is returned to the mill.

Emission units associated with Unit ID 27-1 were installed in October, 1987.

This unit is controlled by a baghouse & HEPA system.

#### **Stack ID 6-S-33**

1. Unit ID 33-1: B-Furnace System

The B-Furnace System consists of feed hoppers, rework system, furnace, fritting device, and interconnecting conveyors. Lead-oxide and other raw materials are batch-mixed in a mixer and conveyed to a stoker hopper. This mixture is then fed to the furnace. The furnace is a direct, natural gas or propane fired reverberatory type furnace. The raw materials are melted to form a molten material which then flows by gravity to the fritting device. The fritted material is conveyed to the drying system.

Emission units associated with Unit ID 33-1 were installed in 1988.

This system is controlled by a baghouse & HEPA system.

#### **Stack ID 4B-S-34**

1. Unit IDs 34-1 and 34-2: B-Furnace Mill and Blending System

The mill feed hopper receives material produced by the B-Furnace. The hopper then charges the mill, which is an air impact air swept type that air conveys the milled material to a cyclone. The air leaving the cyclone is returned to the mill. The material from the cyclone discharges to a packing hopper.

The blender is a paddle type mixer. The material from the blender will be packed out.

Emission units associated with Unit ID 34-1 were installed in 1955 and those associated with Unit ID 34-2 were installed in 2001.

Both units share a baghouse & HEPA system.

2. Unit ID 34-3: Glass Concepts Process

The Glass Concepts Process includes wet ball mills, a holding tank, spray dryers, process baghouses, and interconnecting conveyors. A slurry mixture is batch milled in ball mills and conveyed to a holding tank where it is continuously mixed to keep the material from separating out. The material is then dried in one of two atomizing spray dryers which are natural gas fired with propane as an alternative fuel. The dried product is conveyed through a process baghouse and packed out into containers. This system is drafted to pollution control equipment.

Emission units associated with Unit ID 34-3 were installed in 2005, modified in May, 2006 and October, 2007.

This process is controlled by baghouses & HEPA systems.

**Stack ID 6-S-47**

1. Unit ID 47-1: S-Furnace Operation

The S-Furnace Operation consists of a mixer, furnace, fritting device, drying screw, sizing screen, packers, and interconnecting conveyors. Lead oxide and other raw materials are batch-mixed in a mixer. This mixture is then charged into the furnace, which is a direct, natural gas or propane fired reverberatory-type furnace. As the raw materials melt, they react to form a material which then flows to a fritting device. The fritted material is continuously conveyed through a natural gas heated drying screw that removes excess moisture. The dried material is conveyed to a classifying screen. The screened material is then conveyed to packing.

Emission units associated with Unit ID 47-1 were installed in February, 1995.

The emissions from this operation are vented to a baghouse & HEPA system.

**Various Stack IDs associated with the Expander Operation (previously Stack ID 14-S-15)**

1. Expander Operation: Unit IDs 15-1, 15-2, and 15-3 – Alpha BM Line, Beta BM Line, and Mixer Line.

Stack IDs associated with each unit are as follows:

- a) Unit ID 15-1: Alpha BM Line – RB-1000, R-1000, T-1000, R-1002, and DC-4000 (Trivial Activities except for RB-1000 and DC-4000 which are classified as Insignificant Activities)
- b) Unit ID 15-2: Beta BM Line – RB-2000, R-2000, T-2000, R-2001, and DC-3002 (Trivial Activities except for RB-2000 and DC-3002 which are classified as Insignificant Activities)  
(Shared unit between Units 15-1 & 15-2): R-1001 (Trivial Activity)
- c) Unit ID 15-3: Mixer Line - DC-3000 and DC-2000 (Insignificant Activities)

The Expander Operation consists of three (3) lines. Lines 15-1 and 15-2 each consists of a blender, mill receiver, mill, silo, packing receiver, bag packer and a sling bag packer (shared between both lines). Various raw materials are mixed in the mill. The blended material is air conveyed to storage hoppers and/or packed into bags. Line 15-3 consists of a mixer and packer.

Blended material from the mixer is mechanically conveyed into bulk containers to be packed out into bags.

Emission units associated with Unit IDs 15-1 and 15-2 were installed in June, 2002 and modified in October, 2006, June and September, 2007.

Emission units associated with Unit ID 15-3 were installed in August, 2005 and modified in October, 2006 and September, 2007.

The emissions from these units are controlled by cartridge filters.

### **Stack IDs 20-S-37 and 20-S-42**

#### 1. Unit IDs 37-1 and 42-1: South and North Mill Charging Systems

Each Mill Charging System consists of an air conveyor system, a primary-receiver baghouse hopper, and interconnecting conveyors. Material is vacuum conveyed from the drum dryer holding tanks to a receiver baghouse and then fed to a mill weigh hopper.

Emission units associated with Unit IDs 37-1 and 42-1 were installed in March, 1982.

Each system is controlled by a baghouse.

#### A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)]

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

##### (a) Stack IDs 18-S-49 & 18-S-24

#### 1. Unit ID 49-1 & 24-1: Cleaver Brooks Boiler No. 2 and No. 1

Each Boiler is rated at 8.4 MMBtu/hr and is fueled by natural gas only. There are no pollution control equipment associated with these units.

Emission units associated with Unit ID 49-1 were installed in 1990 and those associated with Unit ID 24-1 were installed in 1978.  
[326 IAC 6.8-1-2(b)(3) and 326 IAC 6.8-2-13(b)]

##### (b) Stack ID 13-S-48

#### 1. Unit IDs 48-1 and 48-2: Wet Mixing North and South Systems

The Mixing Systems are used for wet-mixing raw ingredients. Liquid is charged to the mixers from drums and holding tanks and then dry materials in bags are manually added to produce slurries. The mixed slurry is then pumped from the mixers to the wet grinding equipment then to further processing.

Emission units associated with Unit IDs 48-1 and 48-2 were installed in November, 1994.

Each system is vented to a cartridge filter followed by a HEPA unit.  
[326 IAC 6.8-2-13(a)]

#### 2. Unit ID 48-3: Rust Inhibitor Process

The Rust Inhibitor Process mixes various chemical powders and liquids. The powders are dumped manually to the bag unloader and fed into the mixing tank. The liquid raw material is added through the drum station. The mixer discharges into 5-gallon pails or 55-gallon drums.

Emission units associated with Unit ID 48-3 were installed in August, 1997.

This system is vented to a baghouse which vents into the Wet Mixing South HEPA unit.

[326 IAC 6.8-2-13(a)]

3. Unit ID 48-4: Liquid Stain Inhibitor Process

The Liquid Stain Inhibitor Process mixes various chemical powders and liquids. The powders are dumped manually to the bag unloader and fed into the mixing tank. The liquid raw materials are added through the weigh tank. The mixer discharges into the Unit 48-3 filling stations.

Emission units associated with Unit 48-4 were installed in May, 2000.

This system is vented to the Rust Inhibitor baghouse.

[326 IAC 6.8-2-13(a)]

(c) Stack ID 14-S-45

1. Unit IDs 45-1 and 45-2: Packing Operation North and South

Each Packing Operation consists of hoppers, packers, and interconnecting conveyors. Material is conveyed to the hoppers which feeds it to the packers. Packed bags are then sent to a palletizer.

Emission units associated with Unit IDs 45-1 and 45-2 were installed in June, 1989.

The two packing systems share a baghouse.

[326 IAC 6.8-2-13(a)]

(d) Stack ID 17-S-25 and 17-S-40

1. Unit IDs 25-1 and 40-1: North and South Drum Dryer Systems

Each Drum Dryer System consists of a steam heated drum dryer and interconnecting conveyors. The drum dryers are heated by process steam provided by boilers. The wet slurry is pumped onto the drum dryer where the majority of the moisture is removed. A heated vacuum conveyor line then finishes the drying of the product. The dried material is transferred to holding tanks for storage prior to further processing.

Emission units associated with Unit IDs 25-1 were installed in December, 1992 and those associated with Unit ID 40-1 were installed in July, 1990.

The control system on each system is comprised of a dust collecting hood and a scrubber.

[326 IAC 6.8-2-13(a)]

(e) Stack ID 20-S-36 and 20-S-41

1. Unit IDs 36-1 and 41-1: South and North Drum Dryer Silo Systems

The Drum Dryer Silo Systems consist of storage tanks, flash dryer, and interconnecting conveyors. From the drum dryers, the material is air swept and cyclone separated. The separated material is screw conveyed to holding tanks to await further processing. The flash dryers are natural gas fired and provide a heated air stream that completes the drying of the material.

Emission units associated with Unit IDs 36-1 and 41-1 were installed in March, 1982.

Each system is controlled by a baghouse.  
[326 IAC 6.8-2-13(a)]

- (f) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
- (g) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.
- (h) Combustion source flame safety purging on startup.
- (i) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (j) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (k) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (l) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
- (m) Cleaners and solvents characterized as follows:
  - (1) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100 °F) or;
  - (2) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 °C (68 °F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (n) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.  
[326 IAC 6.8-1-1]
- (o) Closed loop heating and cooling systems.
- (p) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 % by volume.

- (q) Any operation using aqueous solutions containing less than 1 % by weight of VOCs excluding HAPs.
- (r) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
- (s) Replacement or repair of bags or baghouses and filters in other air filtration equipment.
- (t) Heat exchanger cleaning and repair.
- (u) Process vessel degassing and cleaning to prepare for internal repairs.
- (v) Paved and unpaved roads and parking lots with public access. [326 IAC 6.8-10-1]  
[326 IAC 6-4]
- (w) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (x) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (y) Blowdown for any of the following: sight glass; boilers; compressors; pumps; and cooling tower.
- (z) On-site fire and emergency response training approved by the department.
- (aa) Purge double block and bleed valves.
- (bb) Filter or coalescer media changeout.
- (cc) A laboratory as defined in 326 IAC 2-7-1(21)(D).
- (dd) Research and development activities as defined in 326 IAC 2-7-1(21)(E).

### Trivial Activities

The source also consists of the following trivial activities, as defined in 326 IAC 2-7-1(40):

(a) Stack IDs 20-S-39 & 20-S-44

1. Unit IDs 39-1 and 44-1: South and North Product Packing

Each packing system consists of an air conveyor, receiver baghouse, hopper, and interconnecting conveyors. Milled products are conveyed to a receiver baghouse and fed to the packing hopper.

Emission units associated with Unit IDs 39-1 and 44-1 were installed in March, 1982.

Each system is controlled by a baghouse followed by a HEPA.  
[326 IAC 6.8-2-13(a)]

(b) Stack ID 20-S-38 and 20-S-43

1. Unit IDs 38-1 and 43-1: Finished Product West and East Holding Tanks

Each system consists of a vacuum conveyor, primary receiver baghouse, interconnecting conveyors and a hopper. The material is vacuum conveyed from dry milling operations to a primary baghouse and from there it is fed to the finished treated product holding tank.

Emission units associated with Unit IDs 38-1 and 43-1 were installed in March, 1982.

Emissions from each system are controlled by a baghouse.  
[326 IAC 6.8-2-13(a)]

(c) Stack ID V-1

1. Unit ID 1-1: General Building Ventilation Control System

The General Building Ventilation Control System consists of a fan and three (3) HEPA filter units which are connected in parallel to the collection ductwork. The system captures potential fugitive emissions which may escape from processing equipment in the lead chemical manufacturing areas.

Emission units associated with Unit ID 1-1 were installed in May, 1990.  
[326 IAC 6.8-2-13(a)]

A.4 FESOP Applicability [326 IAC 2-8-2]

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This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

## **SECTION B General Conditions**

### **B.1 Definitions [326 IAC 2-8-1]**

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 2-8-4(2)] [326 IAC 2-1.1-9.5] [IC 13-15-3-6(a)]**

- (a) This permit, F089-14165-00219, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, 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 2-8-6]**

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, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### **B.5 Severability [326 IAC 2-8-4(4)]**

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 2-8-4(5)(D)]**

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

### **B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]**

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ 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 not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ 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 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.9 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (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 an "authorized individual" 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) An "Authorized Individual" is defined at 326 IAC 2-1.1-1(1).

B.10 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (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. All 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<sup>th</sup> of each year to:

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (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 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 2-8-4(3); and
  - (5) Such other facts as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.11 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs) 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.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ 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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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.12 Emergency Provisions [326 IAC 2-8-12]

- (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 except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes 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 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;

(IDEM, OAQ)

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality,  
Compliance Section) or,  
Telephone No.: 317-233-0178 (ask for Compliance Section)

Facsimile No.: 317-233-6865  
Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267.

- (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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 2-8-4(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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ 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 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) 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.
  - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

- (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report. Any emergencies that have been previously reported pursuant to paragraph (b)(5) of this condition and certified by an "authorized individual" need only referenced by the date of the original report.

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-8-11.1]

- (a) All terms and conditions of permits established prior to F089-14165-00219 and issued pursuant to permitting programs approved into the state implementation plan have been either
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, 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 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, 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 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-8-3. 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(40) and 326 IAC 2-7-1(21). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (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 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 2-8 until IDEM, OAQ 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 any additional information identified as being needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15] [326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d), 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 approval required by 326 IAC 2-8-11.1 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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 2-8-15(b) through (d). 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 in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) Emission Trades [326 IAC 2-8-15(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 2-8-15(c).
- (c) Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) 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.20 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]

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, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 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  
Permit Administration and Support Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16] [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ 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, the applicable fee is due April 1 of each year.
- (b) 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.24 Credible Evidence [326 IAC 2-8-4(3)] [326 IAC 2-8-5] [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

Entire Source

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
- (1) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
  - (2) The potential to emit any regulated pollutant from the entire source, except volatile organic compounds (VOCs), shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period;
  - (3) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
  - (4) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall render 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above-specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

#### C.2 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.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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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.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

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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.6 Fugitive Dust Emissions [326 IAC 6.8-10-3]

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The Permittee shall be in violation of 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%).

C.7 Lake County Particulate Matter Contingency Measures [326 IAC 6.8-11-1]

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The Permittee shall comply with the applicable provisions of 326 IAC 6.8-11-1 (formerly 326 IAC 6-1-11.2) (Lake County Particulate Matter Contingency Measures).

C.8 Stack Height [326 IAC 1-7]

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

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- (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  
Compliance and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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 "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 Licensed 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 Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos Inspector is not federally enforceable.

### **Testing Requirements [326 IAC 2-8-4(3)]**

#### **C.10 Performance Testing [326 IAC 3-6]**

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- (a) 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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ 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.11 Compliance Requirements [326 IAC 2-1.1-11]**

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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 2-8-4] [326 IAC 2-8-5(a)(1)]**

#### **C.12 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]**

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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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

#### **C.13 Continuous Compliance Plan [326 IAC 6.8-8-1]**

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Pursuant to 326 IAC 6.8-8-1(5) (formerly 326 IAC 6-1-10.1(l) (Lake County PM10 Emission Requirements), the Permittee shall submit to IDEM, OAQ, and maintain at the source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring, and record keeping requirements as specified in 326 IAC 6.8-8-2 through 326 IAC 6.8-8-7 or according to the Permittee's CCP.

#### **C.14 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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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.15 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

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- (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 2-8-4] [326 IAC 2-8-5(a)(1)]**

C.16 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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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.17 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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- (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;
  - (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.18 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

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- (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 “authorized individual” as defined by 326 IAC 2-1.1-1(1).

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

C.19 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

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- (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 makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner 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.20 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

---

- (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 “authorized individual” as defined by 326 IAC 2-1.1-1(1).
- (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 and Enforcement Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

- (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 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 an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) 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) 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. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

### **Stratospheric Ozone Protection**

#### **C.21 Compliance with 40 CFR 82 and 326 IAC 22-1**

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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 2-8-4(10)]:

**Stack ID 1-S-52: Unit IDs 52-1 through 52-17 and 52-19 through 52-21.** See facility descriptions below.

This stack is identified as the Main Control System. This control system is comprised of four (4) units in parallel. Each unit includes a baghouse and a HEPA. Each unit is rated at 99.9998% control efficiency according to the company. The following units are controlled by the Main Control System control equipment, except when otherwise specified.

Stack 1-S-52 is used to vent the control device exhausts from various processes.

1. Unit ID 52-1: No. 1 Barton System

The Barton System consists of a melt kettle, barton reactor, settling device, and interconnecting conveyors. Lead ingots are charged into an enclosed melt kettle which is indirectly heated by either natural gas or propane burners. The molten lead is continuously fed into the barton reactor where it is atomized and oxidized into lead oxide. The oxide is drawn through a settling device and then conveyed to further processing.

Emission units associated with Unit ID 52-1 were installed in 1930.

2. Unit IDs 52-2 through 52-10: Furnace Systems No. 1, 2, 10, 3, 4, 5, 6, 8, & 9 (Insignificant Activities)

Each Furnace System consists of feed hoppers, batch furnace, and interconnecting conveyors. Each furnace is an indirectly heated, natural gas or propane fired, batch furnace which completes the oxidation of the lead oxide.

Emission units associated with Unit IDs 52-2, 52-3, 52-6, 52-7 were installed in 1930.

Emission units associated with Unit ID 52-4 were installed in 1980.

Emission units associated with Unit IDs 52-5 were installed in 1971.

Emission units associated with Unit IDs 52-8 were installed in 1955.

Emission units associated with Unit IDs 52-9 were installed in 1957.

Emission units associated with Unit IDs 52-10 were installed in 1972.

3. Unit IDs 52-11 through 52-13: Mills Systems (Insignificant Activities: 52-12 & 52-13)

Each Mill System consists of a feed hopper, mill, cyclone (Unit IDs 52-11 and 52-12 only), and interconnecting conveyors. Lead Oxide is conveyed to the mill feed hopper from where it is metered into the mill. The air and product from the mill are conveyed to a cyclone. Air from the cyclone is returned to the mill. The oxide is conveyed to the packing station, the North bulk loading storage hopper or for further processing.

Emission units associated with Unit IDs 52-11 and 52-12 were installed in 1930.

Emission units associated with Unit ID 52-13 were installed in 1957.

4. Unit ID 52-14: Air Conveying System (Trivial Activity)

The Air Conveying System consists of a hopper, pressure blowers, and pipes. For the blower 1 system, lead oxide is conveyed to a hopper from which the material is fed through an air lock rotary valve into the pipe. Pressurized air from the blower conveys the material to storage silos. Blower 2 is used to blow material from the 6 Barton mill to storage silos. Material can also be blown from the 4 Barton mill to storage silos.

Emission units associated with Unit ID 52-14 were installed in 1983.

Unit 52-14 is not controlled by the Main Control System. It is controlled by two baghouses followed by a HEPA system which exhausts through stack 1-S-52.

5. Unit ID 52-15, 16 & 19: Lead Oxide Bulk Loading, Bulk Loading System, & Lead Oxide Bulk Loading – North (Insignificant Activities: 52-15 & 52-16)

Each Bulk Loading System consists of a bulk storage silo, conveyors, and a loading spout. A pneumatic bulk trailer is spotted under the telescopic loading spout. The spout is lowered to the trailer hatch. Material is fed from a bulk storage silo through sealed conveyors into the trailer.

Emission units associated with Unit ID 52-15 were installed in 1960.

Emission units associated with Unit ID 52-16 were installed in 1983.

Emission units associated with Unit ID 52-19 were installed in September, 1995.

Unit ID 52-16 is not controlled by the Main Control System. It is controlled by two baghouses followed by a HEPA system which exhausts through stack 1-S-52.

6. Unit ID 52-17: Mykro Mill (Insignificant Activity)

The Mykro Mill consists of two high efficiency cyclones that separate lead oxide into a fine lead oxide product and a coarse lead oxide product. Lead oxide from a barton is conveyed to the feed hopper from which it is fed through an air lock rotary valve into the Mykro Mill. The fine lead oxide is packed into containers and the coarse lead oxide can either be recycled or packed into containers.

Emission units associated with Unit ID 52-17 were installed in November, 1989.

7. Unit ID 52-20: Rail Car Loading

The Rail Car Loading operation consists of a covered railroad hopper car, loading device, and a dust collection device. A rail car is spotted at the loading area and the loading device and dust collection device are put in place. Tote bins containing material are then lifted above the loading device and discharged into the car.

Emission units associated with Unit 52-20 were installed in 1960.

8. Unit ID 52-21: Glass Additive Drying Process

The Glass Additive Drying Process consists of a bin unloading station, drying screw, heated mixer, bin packing station, and interconnecting conveyors. The mixer is an indirectly heated natural gas fired (with propane as an alternative fuel), unit used to remove the water from the glass additive. The dried glass additive is then packed.

Emission units associated with Unit ID 52-21 were installed in 2002.

Unit 52-21 is controlled by a baghouse followed by a HEPA followed by the Main Control System.

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

### **Emissions Limitations and Standards [326 IAC 2-8-4(1)]**

**D.1.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]**

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Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 1-S-52 shall be limited to 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

**D.1.2 Particulate Matter (PM) [326 IAC 2-2]**

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In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 1-S-52 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

**D.1.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]**

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Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID 1-S-52 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

**D.1.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]**

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Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack ID 1-S-52, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.070 lbs/hr. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

**D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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

### **Compliance Determination Requirements**

**D.1.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

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During the period between 30 and 36 months after issuance of this FESOP, in order to demonstrate compliance with Condition D.1.4, the Permittee shall perform lead testing on Stack ID 1-S-52 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.

**D.1.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]**

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(a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.1.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.1.8 Lead (Pb) [326 IAC 2-8-5(4)]**

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.1.4, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.1.9 Visible Emissions Notations**

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- (a) Visible emission notations of the Stack ID 1-S-52 exhaust 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.1.10 Baghouse and HEPA Parametric Monitoring**

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- (a) The Permittee shall record the pressure drop across each baghouse and HEPA filter used in conjunction with the processes associated with Stack ID 1-S-52, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the following normal range of the following:

*(Stack ID 1-S-52)*

<b>Control Unit ID</b>	<b>Pressure Drop (inches of water)</b>
(Main Control System) (Unit IDs 52-1 through 52-13, 52-15, 52-17, 52-19 through 52-21)	
52-1 F (Micro-Pul Baghouse)	1.0 - 9.0
52-1 H (HEPA)	0.1 - 4.5
52-2 F (Micro-Pul Baghouse)	1.0 - 9.0
52-2 H (HEPA)	0.1 - 4.5
52-3 F (Micro-Pul Baghouse)	1.0 - 9.0

Control Unit ID	Pressure Drop (inches of water)
52-3 H (HEPA)	0.1 - 4.5
52-4 F (Micro-Pul Baghouse)	1.0 - 9.0
52-4 H (HEPA)	0.1 - 4.5
52-5-H (Unit IDs 52-5, 6, 7, & 9 HEPA)	0.1 - 4.5
52-8-F (Unit ID 52-21 Baghouse)	1.0 - 9.0
52-8-H (Unit ID 52-21 HEPA)	0.1 - 4.5
(Unit ID 52-14)	
52-7 F (Baghouse)	0.1 - 8.0
52-9 F (Baghouse)	0.1 - 8.0
52-5-H (HEPA)	0.1 - 4.5
(Unit ID 52-16)	
52-5 F (Baghouse)	0.1 - 8.0
52-6 F (Baghouse)	0.1 - 8.0
52-5-H (HEPA)	0.1 - 4.5

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. 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.

- (b) 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.1.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.1.12 Record Keeping Requirements**

- (a) To document compliance with Section C – Opacity and Condition D.1.9, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 1-S-52 exhaust. 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, (e.g. the process did not operate that day).

- (b) To document compliance with Condition D.1.10, the Permittee shall maintain daily records of the pressure drop across each baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.2 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26**

1. Unit IDs 8-1, 16-1, 2-1, 26-1, & 26-2: No. 2, 3, 4, 5, & 6 Barton Systems

Each Barton System consists of a melt kettle, barton reactor, settling device, and interconnecting conveyors. Lead ingots are charged into an enclosed melt kettle which is indirectly heated by either natural gas or propane burners. The molten lead is continuously fed into the barton reactor where it is atomized and oxidized into lead oxide. The oxide is drawn through a settling device and then conveyed to further processing.

Emission units associated with Unit ID 8-1 were installed in 1958.

Emission units associated with Unit ID 16-1 were installed in 1972.

Emission units associated with Unit ID 2-1 were installed in 1974.

Emission units associated with Unit ID 26-1 were installed in 1977 and those associated with Unit ID 26-2 were installed in July, 1995.

Each system is controlled by a baghouse & HEPA system.

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.2.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26 shall be limited to 0.022 gr/dscf and 0.250 lbs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.2.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.250 lbs/hr, per stack. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.2.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.250 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

- D.2.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.053 lbs/hr, per stack. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

#### D.2.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

### Compliance Determination Requirements

#### D.2.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

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During the period between 30 and 36 months after issuance of this FESOP, in order to demonstrate compliance with Condition D.2.4, the Permittee shall perform lead testing on one of the four (4) stacks, Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26, testing a different stack each time until all four (4) have been tested, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.

#### D.2.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

---

(a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.2.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.2.8 Lead (Pb) [326 IAC 2-8-5(4)]

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(a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.2.4, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.2.9 Visible Emissions Notations

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(a) Visible emission notations of the Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26 exhaust 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.2.10 Baghouse and HEPA Parametric Monitoring**

- (a) The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26)

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 8-1)	
8-7-F (Baghouse)	0.1 - 8.5
8-7-H (HEPA)	0.1 - 4.5
(Unit ID 16-1)	
16-8-F (Baghouse)	0.1 - 8.5
16-8-H (HEPA)	0.1 - 4.5
(Unit ID 2-1)	
2-9-F (Baghouse)	0.1 - 5.0
2-9-H (HEPA)	0.1 - 2.0
(Unit IDs 26-1 & 2)	
26-10-F & 26-11-F (Baghouse)	0.5 - 8.5
26-10-H & 26-11-H (HEPA)	0.1 - 4.5

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. 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.

- (b) 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.2.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

#### **D.2.12 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.2.9, the Permittee shall maintain daily records of the visible emission notations of the Stack IDs 4A-S-8, 14-S-16, 1-S-2, & 1-S-26 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.2.10, the Permittee shall maintain daily records of the pressure drop across each baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.3

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 16-S-56**

1. Unit ID 56-1: 400Y Furnace System

The 400Y Furnace System is a direct, natural gas or propane fired reverberatory type furnace. The lead oxide is melted in this furnace and then converted to pelletized lead oxide. After appropriate classification, the finished product is screw conveyed to the packing hopper and packed.

Emission units associated with Unit ID 56-1 were installed in 1971.

This unit is controlled by the 16-S-56 Control System which includes six (6) baghouse & HEPA systems.

2. Unit ID 56-3: Lead Oxide Pneumatic Conveyor System

The Pneumatic Conveyor System consists of a hopper, pressure blower, and a pipe. Lead oxide is conveyed to a hopper from which the material is fed through an air lock rotary valve and into the pipe. Pressurized air from the blower conveys the material to a storage silo.

Emission units associated with Unit ID 56-3 were installed in 1977.

This unit is controlled by a baghouse & HEPA system.

3. Unit ID 56-4: Lead Oxide Bulk Loading System

The Bulk Loading System consists of a bulk storage silo, conveyors, and a loading spout. A pneumatic bulk trailer is spotted under the telescopic loading spout. The spout is lowered to the trailer hatch. Material is fed from a bulk storage silo through sealed conveyors into the trailer.

Emission units associated with Unit ID 56-4 were installed in 1977.

This unit is controlled by a baghouse & HEPA system.

4. Unit ID 56-7: Direct Car Loading System

The Direct Car Loading System consists of two storage silos, two weigh hoppers, a loading spout, a bin dump station, and interconnecting conveyors. Material is conveyed to one of two storage silos from where it can be loaded into a rail car, bulk truck, or tote bin.

Emission units associated with Unit 56-7 were installed in June, 1999.

This unit is controlled by a baghouse & HEPA system.

5. Unit ID 56-9: Flash Calciner System

The Flash Calciner System consists of a feed hopper, natural gas (propane alternative) calciner, process bag filter, Sweco separator, packer and interconnecting conveyors. Lead oxide from the bartons or tote bins is fed into a heated air stream. The material then passes through a process bag filter, a rotary valve and to either the 400Y furnace or through a Sweco separator. Following the Sweco, the material is either packed out or sent to storage tanks.

Emission units associated with Unit 56-9 were installed in May, 2006.

This unit is controlled by a baghouse & HEPA system.

6. Unit ID 56-10: Non-Lead Glass Process

The Non-Lead Glass Process consists of a natural gas (propane alternative) fired furnace, wet ball mill, wet sweco, mixing tank, and interconnecting conveyors. Glass frit from the furnace is milled, separated, and sent to a mix tank. The mix tank feeds the glass product spray dryer.

Emission units associated with Unit 56-10 were installed in May, 2006.

This unit is controlled by a cartridge filter.

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

**Emissions Limitations and Standards [326 IAC 2-8-4(1)]**

D.3.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 16-S-56 shall be limited to 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

D.3.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 16-S-56 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.3.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID 16-S-56 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

D.3.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack ID 16-S-56, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.200 lbs/hr. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

D.3.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

## Compliance Determination Requirements

### D.3.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

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During the period between 30 and 36 months after issuance of this FESOP, in order to demonstrate compliance with Condition D.3.4, the Permittee shall perform lead testing on Stack ID 16-S-56 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.

### D.3.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.3.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.3.8 Lead (Pb) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.3.4, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

## Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

### D.3.9 Visible Emissions Notations

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- (a) Visible emission notations of the Stack ID 16-S-56 exhaust 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.3.10 Baghouse and HEPA Parametric Monitoring**

- (a) The Permittee shall record the pressure drop across each baghouse and HEPA filter used in conjunction with the processes associated with Stack ID 16-S-56, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID 16-S-56)

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 56-1)	
56-18-F & 56-18-H (100-Bag Filter / 100-Bag HEPA)	1.0 - 9.0 / 0.1 - 4.5
56-19-F & 56-19-H (80-Bag Filter / 80-Bag HEPA)	1.0 - 10 / 0.1 - 4.5
56-20-F & 56-20-H (72-Bag Filter / 72-Bag HEPA)	0.5 - 8.5 / 0.1 - 4.5
56-23-F & 56-23-H (W. Reactor Bag Filter / HEPA)	0.1 - 8.5 / 0.1 - 4.5
56-24-F & 56-24-H (E. Reactor Bag Filter / HEPA)	0.1 - 8.5 / 0.1 - 4.5
56-25-F & 56-25-H (130-Bag Filter / 130-Bag HEPA)	1.0 - 9.0 / 0.1 - 4.5
(Unit ID 56-3)	
56-21-F (Baghouse)	0.1 - 10
56-21-H (HEPA)	0.1 - 4.5
(Unit ID 56-4)	
56-22-F (Baghouse)	0.1 - 8.0
56-22-H (HEPA)	0.1 - 8.0
(Unit ID 56-7)	
56-25-F (130-Bag Baghouse)	1.0 - 9.0
56-25-H (130-Bag HEPA)	0.1 - 4.5
(Unit ID 56-9)	
56-17-F (144 Bag Filter)	0.1 - 8.5
56-17-H (144-Bag HEPA)	0.1 - 4.5
(Unit ID 56-10)	
56-26-F (Cartridge Filter)	0.1 - 8.0

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. 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.

- (b) 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.3.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

#### **D.3.12 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.3.9, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 16-S-56 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.3.10, the Permittee shall maintain daily records of the pressure drop across each baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.4 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 4-S-35**

##### 1. Unit ID 35-1: B-Furnace Drying System

The B-Furnace Drying System consists of a mixer, drying screw, sizing screen, oversize material crusher, and packing system. The mixer blends raw materials used for feedstock for the furnace. Material from the furnace is continuously conveyed from the fritting device through a natural gas or propane heated drying screw to remove excess moisture. The dried material is then conveyed to a classifying screen. The screened material is then conveyed to packing.

Emission units associated with Unit ID 35-1 were installed in 1955.

This unit is controlled by a baghouse & HEPA system.

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### D.4.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 4-S-35 shall be limited to 0.022 gr/dscf and 0.570 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

#### D.4.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 4-S-35 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.570 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

#### D.4.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID 4-S-35 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.570 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

#### D.4.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack ID 4-S-35, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.090 lbs/hr. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

**D.4.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

**Compliance Determination Requirements**

**D.4.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

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During the period between 30 and 36 months after issuance of this FESOP, in order to demonstrate compliance with Condition D.4.4, the Permittee shall perform lead testing on Stack ID 4-S-35 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.

**D.4.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]**

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.4.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.4.8 Lead (Pb) [326 IAC 2-8-5(4)]**

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.4.4, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.4.9 Visible Emissions Notations**

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- (a) Visible emission notations of the Stack ID 4-S-35 exhaust 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.4.10 Baghouse and HEPA Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID 4-S-35, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID 4-S-35)

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 35-1)	
35-15-F (Baghouse)	0.1 - 8.5
35-15-H (HEPA)	0.1 - 4.5

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. 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.

- (b) 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.4.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

### **D.4.12 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.4.9, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 4-S-35 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.4.10, the Permittee shall maintain daily records of the pressure drop across the baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.5 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 1-S-27**

1. Unit ID 27-1: Lead Oxide Mill

The Lead Oxide Mill consists of a mill feed hopper, impact mill, cyclone, source bin, packing hopper, and packing station. Lead oxide is conveyed to the mill feed hopper from where it is metered into the mill for grinding. The mill is an impact, air swept type grinding mill. The air and product from the mill are conveyed to a cyclone. Air from the cyclone is returned to the mill.

Emission units associated with Unit ID 27-1 were installed in October, 1987.

This unit is controlled by a baghouse & HEPA system.

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.5.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 1-S-27 shall be limited to 0.022 gr/dscf and 0.290 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

D.5.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack 1-S-27 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.290 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.5.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack 1-S-27 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.290 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

D.5.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack ID 1-S-27, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.020 lbs/hr. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

D.5.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

## Compliance Determination Requirements

### D.5.6 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.5.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.5.7 Lead (Pb) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.5.4, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

## Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

### D.5.8 Visible Emissions Notations

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- (a) Visible emission notations of the Stack ID 1-S-27 exhaust 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.5.9 Baghouse and HEPA Parametric Monitoring

---

- (a) The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID 1-S-27, at least once per day

when the process is in operation. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID 1-S-27)

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 27-1)	
27-12-F (Baghouse)	0.5 - 8.5
27-12-H (HEPA)	0.1 - 4.5

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. 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.

- (b) 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.5.10 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.5.11 Record Keeping Requirements**

---

- (a) To document compliance with Section C – Opacity and Condition D.5.8, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 1-S-27 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.5.9, the Permittee shall maintain daily records of the pressure drop across the baghouse and HEPA. 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, (e.g. the process did not operate that day).

- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.6 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 6-S-33**

1. Unit ID 33-1: B-Furnace System

The B-Furnace System consists of feed hoppers, rework system, furnace, fritting device, and interconnecting conveyors. Lead-oxide and other raw materials are batch-mixed in a mixer and conveyed to a stoker hopper. This mixture is then fed to the furnace. The furnace is a direct, natural gas or propane fired reverberatory type furnace. The raw materials are melted to form a molten material which then flows by gravity to the fritting device. The fritted material is conveyed to the drying system.

Emission units associated with Unit ID 33-1 were installed in 1988.

This system is controlled by a baghouse & HEPA system.

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.6.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 6-S-33 shall be limited to 0.022 gr/dscf and 0.900 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

D.6.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 6-S-33 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.900 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.6.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID 6-S-33 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.900 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

D.6.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack ID 6-S-33, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.070 lbs/hr. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

**D.6.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

**Compliance Determination Requirements**

**D.6.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

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During the period between 30 and 36 months after issuance of this FESOP, in order to demonstrate compliance with Condition D.6.4, the Permittee shall perform lead testing on Stack ID 6-S-33 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.

**D.6.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]**

---

- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.6.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.6.8 Lead (Pb) [326 IAC 2-8-5(4)]**

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.6.4, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.6.9 Visible Emissions Notations**

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- (a) Visible emission notations of the Stack ID 6-S-33 exhaust 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.6.10 Baghouse and HEPA Parametric Monitoring**

---

- (a) The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID 6-S-33, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

(Stack ID 6-S-33)

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 33-1)	
33-14-F (Baghouse)	0.1 - 8.5
33-14-H (HEPA)	0.1 - 4.5

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. 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.

- (b) 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.6.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

### **D.6.12 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.6.9, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 6-S-33 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.6.10, the Permittee shall maintain daily records of the pressure drop across the baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit

## SECTION D.7 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 4B-S-34**

1. Unit IDs 34-1 and 34-2: B-Furnace Mill and Blending System

The mill feed hopper receives material produced by the B-Furnace. The hopper then charges the mill, which is an air impact air swept type that air conveys the milled material to a cyclone. The air leaving the cyclone is returned to the mill. The material from the cyclone discharges to a packing hopper.

The blender is a paddle type mixer. The material from the blender will be packed out.

Emission units associated with Unit ID 34-1 were installed in 1955 and those associated with Unit ID 34-2 were installed in 2001.

Both units share a baghouse & HEPA system.

2. Unit ID 34-3: Glass Concepts Process

The Glass Concepts Process includes wet ball mills, a holding tank, spray dryers, process baghouses, and interconnecting conveyors. A slurry mixture is batch milled in ball mills and conveyed to a holding tank where it is continuously mixed to keep the material from separating out. The material is then dried in one of two atomizing spray dryers which are natural gas fired with propane as an alternative fuel. The dried product is conveyed through a process baghouse and packed out into containers. This system is drafted to pollution control equipment.

Emission units associated with Unit ID 34-3 were installed in 2005, modified in May, 2006 and October, 2007.

This process is controlled by baghouses & HEPA systems.

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.7.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 4B-S-34 shall be limited to 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

D.7.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 4B-S-34 shall be set equal to the PM10 emissions limit, 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 2-2 (PSD) do not apply.

D.7.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID 4B-S-34 shall be set equal to the PM10 emissions limit, 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

D.7.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack ID 4B-S-34, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.080 lbs/hr. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

D.7.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

**Compliance Determination Requirements**

D.7.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

During the period between 30 and 36 months after issuance of this FESOP, in order to demonstrate compliance with D.7.4, the Permittee shall perform lead testing on Stack ID 4B-S-34 utilizing methods as approved by the Commissioner. The test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.

D.7.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.7.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.7.8 Lead (Pb) [326 IAC 2-8-5(4)]

- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.7.4, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.7.9 Visible Emissions Notations

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- (a) Visible emission notations of the Stack ID 4B-S-34 exhaust 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.7.10 Baghouse and HEPA Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across each baghouse and HEPA filter used in conjunction with the processes associated with Stack ID 4B-S-34, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse or HEPA filter is outside the normal range of the following:

*(Stack ID 4B-S-34)*

Control Unit ID	Pressure Drop (inches of water)
(Unit IDs 34-1 & 34-2)	
34-16 F (Baghouse)	0.1 - 8.5
34-16 H (HEPA)	0.1 - 4.5
(Unit ID 34-3)	
34-15 F (Baghouse)	0.1 - 8.0
34-15 H (HEPA)	0.1 - 4.5
34-17 F (Baghouse)	0.1 - 8.0
34-17 H (HEPA)	0.1 - 4.5

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. 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.

- (b) 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.7.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.7.12 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.7.9, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 4B-S-34 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.7.10, the Permittee shall maintain daily records of the pressure drop across each baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.8 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 6-S-47**

1. Unit ID 47-1: S-Furnace Operation

The S-Furnace Operation consists of a mixer, furnace, fritting device, drying screw, sizing screen, packers, and interconnecting conveyors. Lead oxide and other raw materials are batch-mixed in a mixer. This mixture is then charged into the furnace, which is a direct, natural gas or propane fired reverberatory-type furnace. As the raw materials melt, they react to form a material which then flows to a fritting device. The fritted material is continuously conveyed through a natural gas heated drying screw that removes excess moisture. The dried material is conveyed to a classifying screen. The screened material is then conveyed to packing.

Emission units associated with Unit ID 47-1 were installed in February, 1995.

The emissions from this operation are vented to a baghouse & HEPA system.

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.8.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 6-S-47 shall be limited to 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

D.8.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 6-S-47 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.8.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID 6-S-47 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.400 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

D.8.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack ID 6-S-47, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.021 lbs/hr. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

**D.8.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

**Compliance Determination Requirements**

**D.8.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]**

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During the period between 30 and 36 months after issuance of this FESOP, in order to demonstrate compliance with Condition D.8.4, the Permittee shall perform lead testing on Stack ID 6-S-47 utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C – Performance Testing.

**D.8.7 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]**

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 2006, and in order to comply with Condition D.8.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.8.8 Lead (Pb) [326 IAC 2-8-5(4)]**

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.8.4, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.8.9 Visible Emissions Notations**

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- (a) Visible emission notations of the Stack ID 6-S-47 exhaust 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.8.10 Baghouse and HEPA Parametric Monitoring**

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- (a) The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack ID 6-S-47, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse and HEPA filter is outside the normal range of the following:

*(Stack ID 6-S-47)*

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 47-1)	
47-13-F (Baghouse)	0.1 - 8.5
47-13-H (HEPA)	0.1 - 4.5

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. 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.

- (b) 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.8.11 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

### **D.8.12 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.8.9, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 6-S-47 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.8.10, the Permittee shall maintain daily records of the pressure drop across the baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.9 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### *Various Stack IDs associated with the Expander Operation (previously Stack ID 14-S-15)*

1. Expander Operation: Unit IDs 15-1, 15-2, and 15-3 – Alpha BM Line, Beta BM Line, and Mixer Line

Stack IDs associated with each unit are as follows:

- a) Unit ID 15-1: Alpha BM Line – RB-1000, R-1000, T-1000, R-1002, and DC-4000 (Trivial Activities except for RB-1000 and DC-4000 which are classified as Insignificant Activities)
- b) Unit ID 15-2: Beta BM Line – RB-2000, R-2000, T-2000, R-2001, and DC-3002 (Trivial Activities except for RB-2000 and DC 3002 which are classified as Insignificant Activities)  
(Shared unit between Units ID 15-1 & 15-2): R-1001 (Trivial Activity)
- c) Unit ID 15-3: Mixer Line - DC-3000 and DC-2000 (Insignificant Activities)

The Expander Operation consists of three (3) lines. Lines 15-1 and 15-2 each consists of a blender, mill receiver, mill, silo, packing receiver, bag packer and a sling bag packer (shared between both lines). Various raw materials are mixed in the mill. The blended material is air conveyed to storage hoppers and/or packed into bags. Line 15-3 consists of a mixer and packer. Blended material from the mixer is mechanically conveyed into bulk containers to be packed out into bags.

Emission units associated with Unit IDs 15-1 and 15-2 were installed in June, 2002 and modified in October, 2006, June and September, 2007.

Emission units associated with Unit ID 15-3 were installed in August, 2005 and modified in October, 2006 and September, 2007.

The emissions from these units are controlled by cartridge filters.

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.9.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 14-S-15 shall be limited to 0.022 gr/dscf and 0.320 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.9.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 14-S-15 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.320 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.9.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID 14-S-15 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.320 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

**D.9.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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

**Compliance Determination Requirements**

**D.9.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]**

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.9.1, the dust collectors shall be operated at all times when the associated facility is 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.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.9.6 Visible Emissions Notations**

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- (a) Visible emission notations of each stack exhaust associated with T-1000 and T-2000 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.9.7 Dust Collector Parametric Monitoring**

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- (a) The Permittee shall record the pressure drop across each dust collector used in conjunction with the process associated with Stack ID 14-S-15, at least once per day when the process is in operation. When for any one reading, the pressure drop across any dust collector is outside the normal range of the following:

(Previously Stack ID 14-S-15)

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 15-1)	
Alpha Blender & Ball Mill (RB-1000)	0.1 - 7.0
Alpha BM Receiver (R-1000)	0.1 - 8.0
Alpha Silo (T-1000)	0.5 - 10.0
Alpha Packer Receiver (R-1002)	0.5 - 8.5
Alpha Packing (DC-4000)	0.1 - 8.0
(Unit ID 15-2)	
Beta Blender and Ball Mill (RB-2000)	0.1 - 8.0
Beta BM Receiver (R-2000)	0.1 - 8.0
Beta Silo (T-2000)	0.5 - 10.0
Beta Packer Receiver (R-2001)	0.5 - 8.5
Beta Packing (DC-3002)	0.1 - 8.0
(Unit ID 15-1 & Unit ID 15-2: Shared Unit)	
Sling Bag Packing (R-1001)	0.1 - 8.0
(Unit ID 15-3)	
Mixer (DC-3000)	2.0 - 10.0
Mixer Packer (DC-2000)	0.5 - 8.5

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. 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.

- (b) 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.9.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.9.9 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.9.6, the Permittee shall maintain daily records of the visible emission notations of each stack exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.9.7, the Permittee shall maintain daily records of the pressure drop across each baghouse. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.10 FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack IDs 20-S-37 and 20-S-42**

1. Unit IDs 37-1 and 42-1: South and North Mill Charging Systems

Each Mill Charging System consists of an air conveyor system, a primary-receiver baghouse hopper, and interconnecting conveyors. Material is vacuum conveyed from the drum dryer holding tanks to a receiver baghouse and then fed to a mill weigh hopper.

Emission units associated with Unit IDs 37-1 and 42-1 were installed in March, 1982.

Each system is controlled by a baghouse.

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.10.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack IDs 20-S-37 and 20-S-42 shall be limited to 0.022 gr/dscf and 0.200 lbs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.10.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack IDs 20-S-37 and 20-S-42 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.200 lbs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.10.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack IDs 20-S-37 and 20-S-42 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.200 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

- D.10.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

### Compliance Determination Requirements

#### D.10.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.10.1, the baghouse shall be operated at all times when the associated facility is 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.

### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.10.6 Visible Emissions Notations

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- (a) Visible emission notations of the Stack IDs 20-S-37 and 20-S-42 exhaust 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.10.7 Baghouse Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across each baghouse used in conjunction with the processes associated with Stack IDs 20-S-37 and 20-S-42, at least once per day when the process is in operation. When for any one reading, the pressure drop across any baghouse is outside the normal range of the following:

*(Stack IDs 20-S-37 and 20-S-42)*

Control Unit ID	Pressure Drop (inches of water)
(Unit IDs 37-1 and 42-1)	
37-1F (Baghouse)	2.0 - 10.0
42-1F (Baghouse)	2.0 - 10.0

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.

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.

- (b) 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.10.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.10.9 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.10.6, the Permittee shall maintain daily records of the visible emission notations of the Stack IDs 20-S-37 and 20-S-42 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.10.7, the Permittee shall maintain daily records of the pressure drop across each baghouse. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.11 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack IDs 18-S-49 & 18-S-24**

1. Unit IDs 49-1 & 24-1: Cleaver Brooks Boiler No. 2 and No. 1

Each Boiler is rated at 8.4 MMBtu/hr and is fueled by natural gas only. There are no pollution control equipment associated with these units.

Emission units associated with Unit ID 49-1 were installed in 1990 and those associated with Unit ID 24-1 were installed in 1978.

[326 IAC 6.8-1-2(b)(3) and 326 IAC 6.8-2-13(b)]

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

#### D.11.1 Particulate Matter (PM) [326 IAC 6.8-1-2(b)(3)] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-1-2(b)(3) (Particulate Emission Limitations), emissions of particulate matter (PM) from each fuel combustion steam generator associated with Stack IDs 18-S-49 and 18-S-24 that burns natural gas only shall be limited to 0.01 grains per dry standard cubic foot (gr/dscf). This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

#### D.11.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 2-8-4, the PM10 emissions from Stack IDs 18-S-49 and 18-S-24 shall be set equal to the PM emissions limit, 0.01 gr/dscf and 0.129 lbs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

#### D.11.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack IDs 18-S-49 and 18-S-24 shall be set equal to the PM emissions limit, 0.01 gr/dscf and 0.129 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

### Compliance Determination Requirements

#### D.11.4 Particulate Matter (PM) [326 IAC 6.8-1-2(b)(3)] [326 IAC 6.8-2-13(b)]

In order to demonstrate compliance with the particulate matter (PM), particulate matter less than 10 microns in diameter (PM10), and particulate matter less than 2.5 microns in diameter (PM2.5) emission limitations in Conditions D.11.1, D.11.2 and D.11.3, the Cleaver Brooks Boiler No. 2 and No. 1 (Stack IDs 18-S-49 and 18-S-24) shall only burn natural gas.

**Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

D.11.5 Record Keeping Requirements

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- (a) To document compliance with Conditions D.11.1, D.11.2 and D.11.3, the Permittee shall maintain monthly records of the fuel usage for each boiler. These records shall be made available upon request by IDEM.
- (b) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.12 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 13-S-48**

1. Unit IDs 48-1 and 48-2: Wet Mixing North and South Systems

The Mixing Systems are used for wet-mixing raw ingredients. Liquid is charged to the mixers from drums and holding tanks and then dry materials in bags are manually added to produce slurries. The mixed slurry is then pumped from the mixers to the wet grinding equipment then to further processing.

Emission units associated with Unit IDs 48-1 and 48-2 were installed in November, 1994.

Each system is vented to a cartridge filter followed by a HEPA unit.  
[326 IAC 6.8-2-13(a)]

2. Unit ID 48-3: Rust Inhibitor Process

The Rust Inhibitor Process mixes various chemical powders and liquids. The powders are dumped manually to the bag unloader and fed into the mixing tank. The liquid raw material is added through the drum station. The mixer discharges into 5-gallon pails or 55-gallon drums.

Emission units associated with Unit ID 48-3 were installed in August, 1997.

This system is vented to a baghouse which vents into the Wet Mixing South HEPA unit.  
[326 IAC 6.8-2-13(a)]

3. Unit ID 48-4: Liquid Stain Inhibitor Process

The Liquid Stain Inhibitor Process mixes various chemical powders and liquids. The powders are dumped manually to the bag unloader and fed into the mixing tank. The liquid raw materials are added through the weigh tank. The mixer discharges into the Unit 48-3 filling stations.

Emission units associated with Unit 48-4 were installed in May, 2000.

This system is vented to the Rust Inhibitor baghouse.  
[326 IAC 6.8-2-13(a)]

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.12.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 13-S-48 shall be limited to 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

**D.12.2 Particulate Matter (PM) [326 IAC 2-2]**

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In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack 13-S-48 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

**D.12.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]**

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Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack 13-S-48 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

**D.12.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]**

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

**Compliance Determination Requirements**

**D.12.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]**

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.12.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.12.6 Visible Emissions Notations**

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- (a) Visible emission notations of the Stack ID 13-S-48 exhaust 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.12.7 Baghouse and HEPA Parametric Monitoring**

- (a) The Permittee shall record the pressure drop across each baghouse and HEPA filter used in conjunction with the processes associated with Stack ID 13-S-48, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of the following:

(Stack ID 13-S-48)

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 48-1)	
48-1 F (Cartridge Filter)	1.0 - 9.0
48-1 H (HEPA)	0.1 - 5.0
(Unit ID 48-2)	
48-2 F (Cartridge Filter)	1.0 - 9.0
48-2 H (HEPA)	0.1 - 5.0
(Unit ID 48-3)	
48-3 F (Baghouse)	0.5 - 8.5
48-2 H (HEPA)	0.1 - 5.0
(Unit ID 48-4)	
48-3 F (Baghouse)	0.5 - 8.5
48-2 H (HEPA)	0.1 - 5.0

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. 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.

- (b) 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.12.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.12.9 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.12.6, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 13-S-48 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.12.7, the Permittee shall maintain daily records of the pressure drop across each baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.13 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 14-S-45**

1. Unit IDs 45-1 and 45-2: Packing Operation North and South

Each Packing Operation consists of hoppers, packers, and interconnecting conveyors. Material is conveyed to the hoppers which feeds it to the packers. Packed bags are then sent to a palletizer.

Emission units associated with Unit IDs 45-1 and 45-2 were installed in June, 1989.

The two packing systems share a baghouse.

[326 IAC 6.8-2-13(a)]

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.13.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 14-S-45 shall be limited to 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.13.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID 14-S-45 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.13.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID 14-S-45 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.471 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

- D.13.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

### Compliance Determination Requirements

- D.13.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.13.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.13.6 Visible Emissions Notations

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- (a) Visible emission notations of the Stack ID 14-S-45 exhaust 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.13.7 Baghouse Parametric Monitoring

---

- (a) The Permittee shall record the pressure drop across the baghouse used in conjunction with the processes associated with Stack ID 14-S-45, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of the following:

*(Stack ID 14-S-45)*

Control Unit ID	Pressure Drop (inches of water)
(Unit IDs 45-1 and 45-2)	
45-1&2F	0.5 - 8.5

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. 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.

- (b) 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.13.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.13.9 Record Keeping Requirements**

---

- (a) To document compliance with Section C – Opacity and Condition D.13.6, the Permittee shall maintain daily records of the visible emission notations of the Stack ID 14-S-45 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.13.7, the Permittee shall maintain daily records of the pressure drop across the baghouse. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.14 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack IDs 17-S-25 and 17-S-40**

1. Unit IDs 25-1 and 40-1: North and South Drum Dryer Systems

Each Drum Dryer System consists of a steam heated drum dryer and interconnecting conveyors. The drum dryers are heated by process steam provided by boilers. The wet slurry is pumped onto the drum dryer where the majority of the moisture is removed. A heated vacuum conveyor line then finishes the drying of the product. The dried material is transferred to holding tanks for storage prior to further processing.

Emission units associated with Unit IDs 25-1 were installed in December, 1992 and those associated with Unit ID 40-1 were installed in July, 1990.

The control system on each system is comprised of a dust collecting hood and a scrubber.  
[326 IAC 6.8-2-13(a)]

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.14.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack IDs 17-S-25 and 17-S-40 shall be limited to 0.030 gr/dscf and 2.120 lbs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.14.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack IDs 17-S-25 and 17-S-40 shall be set equal to the PM10 emission limit, 0.030 gr/dscf and 2.120 lbs/hr, per stack. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.14.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack IDs 17-S-25 and 17-S-40 shall be set equal to the PM10 emission limit, 0.030 gr/dscf and 2.120 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

- D.14.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

### Compliance Determination Requirements

#### D.14.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.14.1, the scrubber shall be operated at all times when the associated facility is in operation.
- (b) In the event that scrubber failure is observed, if operations will continue for ten (10) days or more after the failure is observed before the failed unit 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.

### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.14.6 Visible Emissions Notations

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- (a) Visible emission notations of the Stack IDs 17-S-25 and 17-S-40 exhaust 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.14.7 Scrubber Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across each scrubber (Unit IDs 25-1 and 40-1) and verify there is a flow at least once daily when in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of the following:

*(Stack IDs 17-S-25 & 17-S-40)*

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 25-1)	
25-1S	10.0 - 20.0
(Unit ID 40-1)	
40-1S	5.0 - 15.0

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. 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.

- (b) 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.14.8 Scrubber Failure Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]

- (a) For a scrubber 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 scrubber controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has 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).

Scrubber failure can be indicated by a significant drop in the scrubber's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature or flow rate.

#### **Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

#### D.14.9 Record Keeping Requirements

- (a) To document compliance with Section C – Opacity and Condition D.14.6 the Permittee shall maintain daily records of the visible emission notations of the Stack IDs 17-S-25 and 17-S-40 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.14.7, the Permittee shall maintain the following:
  - (1) Daily records of the following operational parameters during normal operation:
    - (A) Pressure drop; and
    - (B) Verify presence of flow to the scrubbers.

The Permittee shall include in its daily record when a pressure drop reading or flow verification is not taken and the reason for the lack of a pressure drop reading or flow verification, (e.g. the process did not operate that day).

- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.15 FACILITY OPERATION CONDITIONS – INSIGNIFICANT ACTIVITY

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 20-S-36 and 20-S-41**

1. Unit IDs 36-1 and 41-1: South and North Drum Dryer Silo Systems

The Drum Dryer Silo Systems consist of storage tanks, flash dryer, and interconnecting conveyors. From the drum dryers, the material is air swept and cyclone separated. The separated material is screw conveyed to holding tanks to await further processing. The flash dryers are natural gas fired and provide a heated air stream that completes the drying of the material.

Emission units associated with Unit IDs 36-1 and 41-1 were installed in March, 1982.

Each system is controlled by a baghouse.  
[326 IAC 6.8-2-13(a)]

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.15.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID 20-S-36 shall be limited to 0.022 gr/dscf and 0.395 lbs/hr and for Stack ID 20-S-41 shall be limited to 0.022 gr/dscf and 0.450 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.15.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack IDs 20-S-36 and 20-S-41 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.395 lbs/hr and 0.022 gr/dscf and 0.450 lbs/hr, respectively. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.15.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack IDs 20-S-36 and 20-S-41 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.395 lbs/hr and 0.022 gr/dscf and 0.450 lbs/hr, respectively. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

- D.15.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

### Compliance Determination Requirements

#### D.15.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.15.1, the baghouse shall be operated at all times when the associated facility is 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.

### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.15.6 Visible Emissions Notations

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- (a) Visible emission notations of the Stack IDs 20-S-36 and 20-S-41 exhaust 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.15.7 Baghouse Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across each baghouse used in conjunction with the processes associated with Stack IDs 20-S-36 and 20-S-41, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of the following:

*(Stack IDs 20-S-36 and 20-S-41)*

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 36-1)	
36-1F	1.0 - 9.0
(Unit ID 41-1)	
41-1F	1.0 - 9.0

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. 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.

- (b) 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.15.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.15.9 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.15.6, the Permittee shall maintain daily records of the visible emission notations of the Stack IDs 20-S-36 and 20-S-41 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.15.7, the Permittee shall maintain daily records of the pressure drop across each baghouse. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.16 FACILITY OPERATION CONDITIONS – TRIVIAL ACTIVITY

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack IDs 20-S-39 & 20-S-44**

1. Unit IDs 39-1 and 44-1: South and North Product Packing

Each packing system consists of an air conveyor, receiver baghouse, hopper, and interconnecting conveyors. Milled products are conveyed to a receiver baghouse and fed to the packing hopper.

Emission units associated with Unit IDs 39-1 and 44-1 were installed in March, 1982.

Each system is controlled by a baghouse followed by a HEPA.  
[326 IAC 6.8-2-13(a)]

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.16.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack IDs 20-S-39 and 20-S-44 shall be limited to 0.022 gr/dscf and 0.496 lbs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.16.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack IDs 20-S-39 and 20-S-44 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.496 lbs/hr, per stack. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.16.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack IDs 20-S-39 and 20-S-44 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.496 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

- D.16.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

**Compliance Determination Requirements**

**D.16.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]**

- (a) Pursuant to FESOP No. F089-5200-00219, issued December 12, 1996, and in order to comply with Condition D.16.1, the baghouse and HEPA system shall be operated at all times when the associated facility is 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.

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

**D.16.6 Visible Emissions Notations**

- (a) Visible emission notations of the Stack IDs 20-S-39 and 20-S-44 exhaust 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.16.7 Baghouse and HEPA Parametric Monitoring**

- (a) The Permittee shall record the pressure drop across the baghouse and HEPA filter used in conjunction with the process associated with Stack IDs 20-S-39 and 20-S-44, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of the following:

*(Stack IDs 20-S-39 & 20-S-44)*

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 39-1)	
39-1F	1.0 - 9.0
39-1H	0.1 - 5.0
(Unit ID 44-1)	
44-1F	1.0 - 9.0
44-1H	0.1 - 5.0

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. 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.

- (b) 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.16.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.16.9 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.16.6, the Permittee shall maintain daily records of the visible emission notations of the Stack IDs 20-S-39 and 20-S-44 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.16.7, the Permittee shall maintain daily records of the pressure drop across each baghouse and HEPA. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.17 FACILITY OPERATION CONDITIONS – TRIVIAL ACTIVITY

### Facility Description [326 IAC 2-8-4(10)]:

#### **Stack ID 20-S-38 and 20-S-43**

1. Unit IDs 38-1 and 43-1: Finished Product West and East Holding Tanks

Each system consists of a vacuum conveyor, primary receiver baghouse, interconnecting conveyors and a hopper. The material is vacuum conveyed from dry milling operations to a primary baghouse and from there it is fed to the finished treated product holding tank.

Emission units associated with Unit IDs 38-1 and 43-1 were installed in March, 1982.

Emissions from each system is controlled by a baghouse.

[326 IAC 6.8-2-13(a)]

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

- D.17.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack IDs 20-S-38 and 20-S-43 shall be limited to 0.022 gr/dscf and 0.087 bs/hr, per stack. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

- D.17.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack IDs 20-S-38 and 20-S-43 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.087 lbs/hr, per stack. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

- D.17.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack IDs 20-S-38 and 20-S-43 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 0.087 lbs/hr, per stack. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-1.1-5 (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

- D.17.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

### Compliance Determination Requirements

#### D.17.5 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.17.1, the baghouse shall be operated at all times when the associated facility is 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.

### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.17.6 Visible Emissions Notations

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- (a) Visible emission notations of the Stack IDs 20-S-38 and 20-S-43 exhaust 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.17.7 Baghouse Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across each baghouse used in conjunction with the process associated with Stack IDs 20-S-38 and 20-S-43, at least once per day when the process is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of the following:

*(Stack IDs 20-S-38 and 20-S-43)*

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 38-1)	
38-1F	1.0 - 9.0
(Unit ID 43-1)	
43-1F	1.0 - 9.0

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. 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.

- (b) 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.17.8 Broken or Failed Bag Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For a single compartment baghouse 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 has 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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.17.9 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.17.6, the Permittee shall maintain daily records of the visible emission notations of the Stack IDs 20-S-38 and 20-S-43 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.17.7, the Permittee shall maintain daily records of the pressure drop across each baghouse. 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, (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

## SECTION D.18 FACILITY OPERATION CONDITIONS – TRIVIAL ACTIVITY

### Facility Description [326 IAC 2-8-4(10)]:

#### Stack ID V-1

1. Unit ID 1-1: General Building Ventilation Control System

The General Building Ventilation Control System consists of a fan and three (3) HEPA filter units which are connected in parallel to the collection ductwork. The system captures potential fugitive emissions which may escape from processing equipment in the lead chemical manufacturing areas.

Emission units associated with Unit ID 1-1 were installed in May, 1990.  
[326 IAC 6.8-2-13(a)]

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

### Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.18.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2-13(a)] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 6.8-2-13(a) (formerly 326 IAC 6-1-10.1(d)) (Lake County PM10 emission requirements), the PM10 emissions from Stack ID V-1 shall be limited to 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM10 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-7 (Part 70) do not apply.

D.18.2 Particulate Matter (PM) [326 IAC 2-2]

In order to render 326 IAC 2-2 not applicable, particulate matter emissions from Stack ID V-1 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) do not apply.

D.18.3 Particulate Matter less than 2.5 microns in diameter (PM2.5) [326 IAC 2-1.1-5] [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM2.5 emissions from Stack ID V-1 shall be set equal to the PM10 emission limit, 0.022 gr/dscf and 1.000 lbs/hr. This requirement will ensure that the source total PM2.5 emissions stay below 100 tons/yr. Therefore, the requirements of 326 IAC (Nonattainment NSR) and 326 IAC 2-7 (Part 70 Permit Program) do not apply.

D.18.4 Lead (Pb) [326 IAC 15-1-2] [326 IAC 2-8-4] [326 IAC 2-2]

Pursuant to 326 IAC 15 (Lead Emission Limitations), the lead emissions from Stack ID V-1, as specifically listed in 326 IAC 15-1-2(a)(6), shall be limited to 0.090 lbs/hr. This requirement will ensure that the source total lead emissions stay below 4 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70) do not apply.

D.18.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B – Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

## Compliance Determination Requirements

### D.18.6 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.18.1, the HEPA system shall be operated at all times when the associated facility is in operation.
- (b) In the event that bag failure is observed in a multi-HEPA filter unit, 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.18.7 Lead (Pb) [326 IAC 2-8-5(4)]

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- (a) Pursuant to FESOP No. F089-5200-00219, issued on December 12, 1996, and in order to comply with Condition D.18.4, the HEPA system shall be operated at all times when the associated facility is 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.

## Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

### D.18.8 Visible Emissions Notations

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- (a) Visible emission notations of the Stack ID V-1 exhaust 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.18.9 HEPA Parametric Monitoring

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- (a) The Permittee shall record the pressure drop across the HEPA filter used in conjunction with the process associated with Stack ID V-1, at least once per day when the process is

in operation. When for any one reading, the pressure drop across the HEPA filter is outside the normal range of the following:

(Stack ID V-1)

Control Unit ID	Pressure Drop (inches of water)
(Unit ID 1-1)	
V-1 West	0.5 - 8.5
V-1 Mid	0.5 - 8.5
V-1 East	0.5 - 8.5

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. 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.

- (b) 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.18.10 Failed HEPA Filter Detection [326 IAC 2-8-5(1)] [326 IAC 2-8-4(1)]**

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- (a) For single HEPA filter units 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 HEPA filter unit controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has 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).

HEPA failure can be indicated by a significant drop in the HEPA'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 Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

**D.18.11 Record Keeping Requirements**

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- (a) To document compliance with Section C – Opacity and Condition D.18.8, the Permittee shall maintain daily records of the visible emission notations of the Stack ID V-1 exhaust. 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, (e.g. the process did not operate that day).
- (b) To document compliance with Condition D.18.9, the Permittee shall maintain daily records of the pressure drop across each HEPA. 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, (e.g. the process did not operate that day).

- (c) All records shall be maintained in accordance with Section C – General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
CERTIFICATION**

Source Name: Hammond Group, Inc. (HGI)  
Source Address: 2308 – 165<sup>th</sup> Street, Hammond, Indiana 46320  
Mailing Address: 2323 – 165<sup>th</sup> Street, Hammond, Indiana 46320  
FESOP No.: F089-14165-00219

**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:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE AND ENFORCEMENT BRANCH  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-0178  
Fax: 317-233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
EMERGENCY OCCURRENCE REPORT**

Source Name: Hammond Group, Inc. (HGI)  
Source Address: 2308 – 165<sup>th</sup> Street, Hammond, Indiana 46320  
Mailing Address: 2323 – 165<sup>th</sup> Street, Hammond, Indiana 46320  
FESOP No.: F089-14165-00219

**This form consists of 2 pages**

**Page 1 of 2**

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 IDEM Compliance Section); and
- The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-6865, IDEM), 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, PM10, 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 AND ENFORCEMENT BRANCH**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Hammond Group, Inc. (HGI)  
 Source Address: 2308 –165<sup>th</sup> Street, Hammond, Indiana 46320  
 Mailing Address: 2323 – 165<sup>th</sup> Street, Hammond, Indiana 46320  
 FESOP No.: F089-14165-00219

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

Page 1 of 2

<p>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. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does 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".</p>	
<p><input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p><b>Permit Requirement</b> (specify permit condition #)</p>	
<p><b>Date of Deviation:</b></p>	<p><b>Duration of Deviation:</b></p>
<p><b>Number of Deviations:</b></p>	
<p><b>Probable Cause of Deviation:</b></p>	
<p><b>Response Steps Taken:</b></p>	
<p><b>Permit Requirement</b> (specify permit condition #)</p>	
<p><b>Date of Deviation:</b></p>	<p><b>Duration of Deviation:</b></p>
<p><b>Number of Deviations:</b></p>	
<p><b>Probable Cause of Deviation:</b></p>	
<p><b>Response Steps Taken:</b></p>	

<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: \_\_\_\_\_

Attach a signed certification to complete this report.



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

*Mitchell E. Daniels Jr.*  
**Governor**

*Thomas W. Easterly*  
**Commissioner**

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

## SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Jean Ziga  
Hammand Group, Inc.  
2323 165th Street  
Hammond, IN 46320

DATE: September 4, 2009

FROM: Matt Stuckey, Branch Chief  
Permits Branch  
Office of Air Quality

SUBJECT: Final Decision  
FESOP  
089-28377-00219

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:  
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at [jbrush@idem.IN.gov](mailto:jbrush@idem.IN.gov).

Final Applicant Cover letter.dot 11/30/07

# Mail Code 61-53

IDEM Staff	CDENNY 9/4/2009 Hammond Group, Inc. 089-28377-00219 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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1		Jean Ziga Hammond Group, Inc. 2323 165th St Hammond IN 46320 (Source CAATS) <b>VIA CONFIRMED DELIVERY</b>										
2		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
3		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
4		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
5		Hammond City Council and Mayors Office 5925 Calumet Avenue Hammond IN 46320 (Local Official)										
6		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
7		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
8		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
9		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
10		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
11		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
12		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
13		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										
14		Barbara G. Perez 506 Lilac Street East Chicago IN 46312 (Affected Party)										
15		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										

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# Mail Code 61-53

IDEM Staff	CDENNY 9/4/2009 Hammond Group, Inc. 089-28377-00219 (final)		Type of Mail:  <b>CERTIFICATE OF MAILING ONLY</b>	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Karen 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
2		Calumet Township Trustee 35 E 5th Avenue Gary IN 46402 (Affected Party)										
3		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
4		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
5		Ron Novak Hammond Dept. of Environmental Management 5925 Calumnet Ave. Hammond IN 46320 (Local Official)										
6												
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