



*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant  
DATE: March 7, 2006  
RE: Indiana Nugget, LLC / 033-22678-00092  
FROM: Paul Dubenetzky  
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, Room 1049, 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.dot 1/10/05



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Mr. Barry A. Smith, Environmental Engineer  
Indiana Nugget, LLC  
4500 County Road 59  
Butler, Indiana 46721

March 7, 2006

Re: **033-22678-00092**  
Transfer of Ownership and Name Change  
First Administrative Amendment to  
NSR/PSD/Part 70 Operating Permit  
No. 033-19475-000092

Dear Mr. Smith:

Auburn Nugget LLC was issued a NSR/PSD/Part 70 Operating Permit on May 31, 2005, for an iron nugget production operation. On February 20, 2006, the Office of Air Quality received a request to transfer ownership of Auburn Nugget LLC located at County Road 55 and 42, Butler, Indiana, to Indiana Nugget, LLC at the same location. Pursuant to the provisions of 326 IAC 2-7-11 the permit is hereby administratively amended:

This administrative amendment acknowledges the transfer of the above mentioned Part 70 Permit from Auburn Nugget LLC to Indiana Nugget, LLC at the same location. Because of the transfer of ownership changes were made to the source mailing address and source phone number.

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

The Permittee owns and operates a stationary iron nugget production plant.

Responsible Official:	Manager or Designee pursuant to 326 IAC 2-7-1(34)
Source Location:	County Road 55 and 42, Butler, IN 46721
Mailing Address:	<del>221 South Main Street, Auburn, IN 46706</del> <b>4500 County Road 59, Butler, IN 46721</b>
General Source Phone Number:	<del>218-349-1277</del> <b>260-868-8000</b>
County:	Dekalb
SIC Code:	3312 (Steel Mill)
NAICS Code:	331111
Source Location Status:	Attainment for all criteria pollutants
Source Status:	1 of 28 Source Categories Part 70 Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act Clean Unit Source

In addition, the permit is revised at the cover page, headers and report forms such that the source name was changed without replication herein.

All other conditions of the permit shall remain unchanged and in effect. Please find a copy of the entire Part 70 permit with the revisions.

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 Janet Mobley at 317-232-8369 or at 1-800-451-6027 extension 2-8369.

Sincerely,

Original Signed By:  
Kathy Moore, Section Chief  
Permits Branch  
Office of Air Quality

KM/jm

cc: File – DeKalb County  
DeKalb County Health Department  
Air Compliance Section Inspector – Dick Sekula  
IDEM Northern Regional Office  
Compliance Data Section  
Permit Review Section III – Iryn Callilung  
Permit Review Section II- Janet Mobley



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**NEW SOURCE REVIEW (NSR)  
PREVENTION OF SIGNIFICANT DETERIORATION (PSD)  
PART 70 OPERATING PERMIT**

**OFFICE OF AIR QUALITY**

**Indiana Nugget, LLC  
County Road 55 and 42  
Butler, IN 46721**

(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.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

This permit is issued in accordance with 326 IAC 2-2 Prevention of Significant Deterioration (PSD).

**Except as otherwise stated in 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. **Except as otherwise stated in this permit**, noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in Section B.19 - Emergency Provisions.

NSR/PSD/Part 70 Permit <b>033-19475-00092</b>	
Issued by: Paul Dubenetzky, Chief Permits Branch Office of Air Quality	Issuance Date: May 31, 2005  Expiration Date: May 31, 2010

First Administrative Amendment No.: <b>033-22678-00092</b>	Pages Affected: Entire Permit
Issued by: Original Signed By: Kathy Moore, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 7, 2006  Expiration Date: May 31, 2010



Permit Writer: Iryn Calilung

## TABLE OF CONTENTS

### A SOURCE SUMMARY

A.1	General Information	[326 IAC 2-7-4(c)][326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]
A.2	Emission Units and Pollution Control Equipment Summary	[326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]
A.3	Specifically Regulated Insignificant Activities	[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]
A.4	Part 70 Permit Applicability	[326 IAC 2-7-2]

### B GENERAL CONDITIONS

#### Part 1 Construction Conditions

B.1	Permit No Defense	[IC 13-11 through 13-20] [IC 13-22 through 13-25] [IC 13-17]
B.2	Effective Date of the Permit	[IC 13-15-5-3]
B.3	Revocation of Permits	[326 IAC 2-2-8]
B.4	Modification to Construction Conditions	[326 IAC 2]
B.5	Advanced Source Modification Approval	[326 IAC 2-7-5(16)] [326 IAC 2-7-10.5]
B.6	Significant Source Modification	[326 IAC 2-7-10.5(h)]

B.7	General Provisions and NSPS Reporting	[326 IAC 12-1] [40 CFR Part 60, Subpart A]
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#### Part 2 General Operating Conditions

B.8	Definitions	[326 IAC 2-7-1]
B.9	Permit Term	[326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]
B.10	Term of Conditions	[326 IAC 2-1.1-9.5]
B.11	Enforceability	[326 IAC 2-7-7]
B.12	Termination of Right to Operate	[326 IAC 2-7-10] [326 IAC 2-7-4(a)]
B.13	Severability	[326 IAC 2-7-5(5)]
B.14	Property Rights or Exclusive Privilege	[326 IAC 2-7-5(6)(D)]
B.15	Duty to Provide Information	[326 IAC 2-7-5(6)(E)]
B.16	Certification	[326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]
B.17	Annual Compliance Certification	[326 IAC 2-7-6(5)]
B.18	Preventive Maintenance Plan (PMP)	[326 IAC 2-7-5(1),(3)and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]
B.19	Emergency Provisions	[326 IAC 2-7-16]
B.20	Permit Shield	[326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]
B.21	Deviations from Permit Requirements and Conditions	[326 IAC 2-7-5(3)(C)(ii)]
B.22	Permit Modification, Reopening, Revocation and Reissuance, or Termination	[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]
B.23	Permit Renewal	[326 IAC 2-7-4]

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B.24	Permit Amendment or Modification	[326 IAC 2-7-11][326 IAC 2-7-12]
B.25	Permit Revision Under Economic Incentives and Other Programs	[326 IAC 2-7-5(8)] [326 IAC 2-7-12 (b)(2)]
B.26	Operational Flexibility	[326 IAC 2-7-20] [326 IAC 2-7-10.5]
B.27	Source Modification Requirement	[326 IAC 2-7-10.5] [326 IAC 2-2-2]
B.28	Inspection and Entry	[326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]
B.29	Transfer of Ownership or Operational Control	[326 IAC 2-7-11]
B.30	Annual Fee Payment	[326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]
B.31	Credible Evidence	[326 IAC 2-7-5(3)][326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

## C SOURCE OPERATION CONDITIONS

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

C.1	Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour	[40 CFR 52 Subpart P][326 IAC 6-3-2]
C.2	Opacity	[326 IAC 5-1]
C.3	Open Burning	[326 IAC 4-1] [IC 13-17-9]
C.4	Incineration	[326 IAC 4-2] [326 IAC 9-1-2]
C.5	Fugitive Dust Emissions	[326 IAC 6-4]
C.6	Fugitive Particulate Matter Emission Limitations	[326 IAC 6-5]
C.7	Operation of Equipment	[326 IAC 2-7-6(6)]
C.8	Motor Vehicle Fugitive Dust Sources	[326 IAC 6-4-4]
C.9	Stack Height	[326 IAC 1-7]
C.10	Asbestos Abatement Projects	[326 IAC 14-10] [326 IAC 18] [40 CFR Part 61, Subpart M]
	<b>Testing Requirements</b>	<b>[326 IAC 2-7-6(1)]</b>
C.11	Performance Testing	[326 IAC 3-6]
	<b>Compliance Requirements</b>	<b>[326 IAC 2-1.1-11]</b>
C.12	Compliance Requirements	[326 IAC 2-1.1-11]
	<b>Compliance Monitoring Requirements</b>	<b>[326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]</b>
C.13	Compliance Monitoring	[326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]
C.14	Monitoring Methods	[326 IAC 3][40 CFR 60][40 CFR 63]
C.15	Pressure Gauge and Other Instrument Specifications	[326 IAC 2-1.1-11] [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]
	<b>Corrective Actions and Response Steps</b>	<b>[326 IAC 2-7-5] [326 IAC 2-7-6]</b>
C.16	Emergency Reduction Plans (ERPs)	[326 IAC 1-5-2] [326 IAC 1-5-3]
C.17	Risk Management Plan (RMP)	[326 IAC 2-7-5(12)] [40 CFR Part 68]
C.18	Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports	[326 IAC 2-7-5] [326 IAC 2-7-6]
C.19	Actions Related to Noncompliance Demonstrated by a Stack Test	[326 IAC 2-7-5] [326 IAC 2-7-6]
	<b>Record Keeping and Reporting Requirements</b>	<b>[326 IAC 2-7-5(3)] [326 IAC 2-7-19]</b>
C.20	Emission Statement	[326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]
C.21	General Record Keeping Requirements	[326 IAC 2-7-5(3)] [326 IAC 2-7-6]

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- C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]  
**Stratospheric Ozone Protection**
- C.23 Compliance with 40 CFR Part 82 and 326 IAC 22-1  
**Post Construction Ambient Monitoring**
- C.24 Post Construction Ambient Monitoring [326 IAC 2-2-4]  
**Clean Unit General Requirements**
- C.25 Clean Unit [326 IAC 2-2.2]
  
- D.1 FACILITY OPERATION CONDITIONS - - Rotary Hearth Furnace (Stack 1001)**
  - Emission Limitations and Standards [326 IAC 2-7-5(1)]**
  - D.1.1 Rotary Hearth Furnace (RHF) PSD BACT Limits [326 IAC 2-2] [326 IAC 2-4.1]
  - D.1.2 Rotary Hearth Furnace (RHF) Clean Unit [326 IAC 2-2.2]
  - D.1.3 Hazardous Air Pollutants Major Limits [326 IAC 2-4.1-1]
  - D.1.4 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]
  - Compliance Determination Requirements**
  - D.1.5 Operation of Add-on Control Devices  
Exhausting Through Stack 1001 [326 IAC 2-2] [326 IAC 2-4.1]
  - D.1.6 Rotary Hearth Furnace (RHF)  
Testing Requirements [326 IAC 2-7-6(1) and (6)]  
[326 IAC 2-2] [326 IAC 2-1.1-11]
  - D.1.7 Rotary Hearth Furnace (RHF) CO, VOC, NO<sub>x</sub> and SO<sub>2</sub> Continuous Emission Rate  
Monitoring Requirement [326 IAC 2-2] [326 IAC 3-5]  
[40 CFR Part 64]
  - D.1.8 Stack 1001 Continuous Opacity Monitoring (COM) [326 IAC 2-2] [326 IAC 3-5]  
[40 CFR Part 64]  
**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**
  - D.1.9 Maintenance of Continuous Opacity Monitoring  
(COM) Equipment [326 IAC 2-7-5(3)(A)(iii)]
  - D.1.10 Maintenance of Continuous Emission Monitoring  
(CEM) Equipment [326 IAC 2-7-5(3)(A)(iii)] [326 IAC 2-7-6]
  - D.1.11 Scrubbers Operation [326 IAC 2-2] [326 IAC 2-7-6(1)]  
[326 IAC 2-7-5(1)]
  - Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**
  - D.1.12 Record Keeping Requirements [326 IAC 2-2]  
[326 IAC 2-7-5(3)] [326 IAC 2-7-19]
  - D.1.13 Reporting Requirements [326 IAC 2-2]  
[326 IAC 2-7-5(3)] [326 IAC 2-7-19]
  
- D.2 FACILITY OPERATION CONDITIONS - - Green Ball Dryers and Product Separator/Dryer (Stack 1001)**
  - Emission Limitations and Standards [326 IAC 2-7-5(1)]**
  - D.2.1 Green Ball Dryers PSD BACT Limits [326 IAC 2-2]
  - D.2.2 Product Separator/Dryer PSD BACT Limits [326 IAC 2-2]
  - D.2.3 Stack 1001 and Roof Monitor Opacity PSD BACT Limit [326 IAC 2-2]
  - D.2.4 Green Ball Dryers Clean Unit [326 IAC 2-2.2]
  - D.2.5 Product Separator/Dryer Clean Unit [326 IAC 2-2.2]
  - D.2.6 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]
  - Compliance Determination Requirements**
  - D.2.7 Operation of Add-on Control Devices  
Exhausting Through Stack 1001 [326 IAC 2-2]

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- D.2.8 Green Ball Dryers Baghouses Testing Requirements and Stack 1001 Continuous Opacity Monitoring (COM) [326 IAC 2-7-6(1) and (6)]  
[326 IAC 2-2] [326 IAC 3-5]  
[40 CFR Part 64]
- Compliance Monitoring Requirements** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.2.9 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]  
[40 CFR Part 64]
- D.2.10 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]  
[40 CFR Part 64]
- D.2.11 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]  
[40 CFR Part 64]
- Record Keeping and Reporting Requirement** [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.2.12 Record Keeping Requirements [326 IAC 2-2]  
[326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.2.13 Reporting Requirements [326 IAC 2-2]  
[326 IAC 2-7-5(3)] [326 IAC 2-7-19]

**D.3 FACILITY OPERATION CONDITIONS - - Coal #1 Pulverizer/Dryer, Coal #2 Pulverizer/Dryer and Flux Pulverizer(s)/Dryer(s) (Stack 1002)**

- Emission Limitations and Standards** [326 IAC 2-7-5(1)]
- D.3.1 Coal #1 Pulverizer/Dryer PSD BACT Limits [326 IAC 2-2]
- D.3.2 Coal #2 Pulverizer/Dryer PSD BACT Limits [326 IAC 2-2]
- D.3.3 Flux Pulverizer(s)/Dryer(s) PSD BACT Limits [326 IAC 2-2]
- D.3.4 Stack 1002 Opacity PSD BACT Limit [326 IAC 2-2]
- D.3.5 Clean Units [326 IAC 2-2.2]
- D.3.6 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR 60, Subpart A]  
[40 CFR Part 60, Subpart Y]  
[326 IAC 2-7-5(13)] [326 IAC 1-6-3]
- Compliance Determination Requirements**
- D.3.8 Operation of Add-on Control Devices Exhausting Through Stack 1002 [326 IAC 2-2]
- D.3.9 Coal #1 Pulverizer/Dryer Baghouse and Coal #2 Pulverizer/Dryer Baghouse Testing Requirements [326 IAC 2-7-6(1) and (6)]  
[326 IAC 2-2][40 CFR Part 60 Subpart
- Y] D.3.10 Coal #1 Pulverizer/Dryer and Coal #2 Pulverizer/Dryer Opacity Testing Requirement [40 CFR Part 60 Subpart Y]
- Compliance Monitoring Requirements** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.3.11 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.3.12 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.3.13 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.3.14 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- Record Keeping and Reporting Requirement** [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.3.15 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.3.16 Reporting Requirements [326 IAC 2-2]  
[326 IAC 2-7-5(3)] [326 IAC 2-7-19]



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**D.4 FACILITY OPERATION CONDITIONS -- Ore Dryer (Stack 1003)**

- Emission Limitations and Standards** [326 IAC 2-7-5(1)]
- D.4.1 Ore Dryer PSD BACT Limits [326 IAC 2-2]
- D.4.2 Ore Dryer Clean Unit [326 IAC 2-2.2]
- D.4.3 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]
- Compliance Determination Requirements**
- D.4.4 Operation of Add-on Control Device  
Exhausting Through Stack 1003 [326 IAC 2-2]
- D.4.5 Ore Dryer Baghouse Testing Requirements [326 IAC 2-7-6(1) and (6)] [326 IAC 2-2]
- Compliance Monitoring Requirements** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.4.6 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.4.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.4.8 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.4.9 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- Record Keeping and Reporting Requirement** [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.4.10 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.4.11 Reporting Requirements [326 IAC 2-2]  
[326 IAC 2-7-5(3)] [326 IAC 2-7-19]

**D.5 FACILITY CONDITIONS -- Railcar Unloading (Stack 1004)**

- Emission Limitations and Standards** [326 IAC 2-7-5(1)]
- D.5.1 Railcar Unloading PSD BACT Limits [326 IAC 2-2]
- D.5.2 Railcar Unloading Clean Unit [326 IAC 2-2.2]
- D.5.3 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]
- Compliance Determination Requirements**
- D.5.4 Operation of Add-on Control Device  
Exhausting Through Stack 1004 [326 IAC 2-2]
- Compliance Monitoring Requirements** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.5.5 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.5.6 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.5.7 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.5.8 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- Record Keeping and Reporting Requirement** [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.5.9 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

**D.6 FACILITY CONDITIONS -- Fugitive Dust Collection Systems (Stack 1001 and Stack 1005)**

- Emission Limitations and Standards** [326 IAC 2-7-5(1)]
- D.6.1 Fugitive Dust Collection Systems PSD BACT Limits [326 IAC 2-2]
- D.6.2 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]
- Compliance Determination Requirements**
- D.6.3 Operation of Add-on Control Devices [326 IAC 2-2]
- Compliance Monitoring Requirements** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.6.4 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.6.5 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.6.6 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- D.6.7 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- Record Keeping and Reporting Requirement** [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.6.8 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

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**D.7 FACILITY OPERATION CONDITIONS - - Material Storage handling, transfer, conveying**

- Emission Limitations and Standards** [326 IAC 2-7-5(1)]
- D.7.1 Silos PSD BACT Limits [326 IAC 2-2]
- D.7.2 Silos Clean Unit [326 IAC 2-2.2]
- D.7.3 Preventive Maintenance Plan (PMP) [326 IAC 1-6-3] [326 IAC 1-6-3]
- Compliance Determination Requirements** [326 IAC 2-1.1-11]
- D.7.4 Particulate Matter (PM) [326 IAC 2-2]
- Compliance Monitoring Requirements** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- None
- Record Keeping and Reporting Requirement** [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- None

**D.8 FACILITY OPERATION CONDITIONS - - Paved and Unpaved Roadways**

- Emission Limitations and Standards** [326 IAC 2-7-5(1)]
- D.8.1 Paved Roadways [326 IAC 2-2]
- D.8.2 Opacity PSD BACT Limit [326 IAC 2-2]
- D.8.3 Paved Roadways Clean Unit [326 IAC 2-2.2]
- Compliance Determination Requirements**
- D.8.4 Fugitive Dust Control Plan (FDCP) [326 IAC 2-2]
- Compliance Monitoring Requirements** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- None
- Record Keeping and Reporting Requirements** [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.8.5 Record Keeping Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)]  
[326 IAC 2-7-19]

**D.9 FACILITY OPERATION CONDITIONS - - Cooling Towers and Emergency Generator(s)**

- Emission Limitations and Standards** [326 IAC 2-7-5(1)]
- D.9.1 Cooling Towers PSD BACT Limit [326 IAC 2-2]
- D.9.2 Emergency Generator(s) PSD BACT Limit [326 IAC 2-2]
- Compliance Determination Requirements**
- None
- Compliance Monitoring Requirements** [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]
- None
- Record Keeping and Reporting Requirement** [326 IAC 2-7-5(3)] [326 IAC 2-7-19]
- D.9.3 Record Keeping Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)]  
[326 IAC 2-7-19]
- D.9.4 Reporting Requirements [326 IAC 2-2]  
[326 IAC 2-7-5(3)] [326 IAC 2-7-19]

**E Fugitive Dust Control Plan**

Permit Writer: Iryn Calilung

**Affidavit of Construction**

**Part 70 Permit Certification**

**Part 70 Permit Emergency Occurrence Report**

**Part 70 Permit Usage Report**

**Part 70 Permit Quarterly Report**

**Part 70 Permit Quarterly Deviation and Compliance Monitoring Report**

## SECTION A

## SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary iron nugget production plant.

Responsible Official:	Manager or Designee pursuant to 326 IAC 2-7-1(34)
Source Location:	County Road 55 and 42, Butler, IN 46721
Mailing Address:	4500 County Road 59, Butler, IN 46721
General Source Phone Number:	260-868-8000
County:	Dekalb
SIC Code:	3312 (Steel Mill)
NAICS Code:	331111
Source Location Status:	Attainment for all criteria pollutants
Source Status:	1 of 28 Source Categories Part 70 Permit Program Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act Clean Unit Source

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

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

#### SECTION D.1 and SECTION D.2

##### (a) Stack 1001 and Roof Monitor

- (1) One (1) Rotary Hearth Furnace, identified as RHF, nominally rated at 75.521 tons per hour of iron nugget product and 217 million (MM) Btu per hour. This RHF uses natural gas as the primary fuel, and propane as a back up fuel.

The sulfur dioxide (SO<sub>2</sub>), particulate matter, lead, mercury, fluorides, and acid gases emissions from the RHF are controlled by up to four (4) wet scrubbers, identified as Wet Scrubber 1, Wet Scrubber 2, Wet Scrubber 3, and Wet Scrubber 4. These wet scrubbers exhaust to a common duct and then to Stack 1001.

The nitrogen oxides (NO<sub>x</sub>) emissions from the RHF are reduced by low NO<sub>x</sub> burners, in addition to the low excess air (LEA) design.

The volatile organic compound (VOC), carbon monoxide (CO), and organic

Permit Writer: Iryn Calilung

hazardous air pollutants (HAPs) emissions from the RHF are controlled by the air infiltration inherent design of the RHF.

The RHF is equipped with the following continuous emission monitoring systems (CEMSs): SO<sub>2</sub>, VOC, NO<sub>x</sub> and CO.

- (2) Three (3) Agglomerate Dryers, identified as Green Ball Dryer 1, Green Ball Dryer 2, and Green Ball Dryer 3, with a total nominal rating of 153.248 tons of dried green balls per hour and 205.2 million (MM) Btu per hour.

During normal operations, these dryers operate using the air preheated by the RHF exhaust. These dryers use natural gas during start up periods and when sufficient preheated air is not available. Low NO<sub>x</sub> burners are used to reduce the NO<sub>x</sub> emissions from these three (3) Green Ball Dryers when they are using natural gas as fuel.

Each Green Ball Dryer is controlled by a baghouse, identified as Green Ball Dryer Baghouse 1, Green Ball Dryer Baghouse 2, and Green Ball Dryer Baghouse 3. These baghouses exhaust to a common duct and then to Stack 1001.

- (3) One (1) Product Separator/Dryer, nominally rated at 33 tons of dry product per hour, and 25 MMBtu per hour. This dryer uses natural gas and is equipped with low NO<sub>x</sub> burners to reduce the NO<sub>x</sub> emissions.

The particulate matter emissions from the Product Separator/Dryer are controlled by a baghouse, identified as Product Separator/Dryer Baghouse.

The controlled emissions from the RHF, Green Ball Dryers, and Product Separator/Dryer exhaust through a stack, identified as Stack 1001.

The remaining uncontrolled emissions exhaust through the Roof Monitor.

Stack 1001 is equipped with a continuous opacity monitor (COM) to measure the visible emissions.

### SECTION D.3

#### (b) Stack 1002

- (1) One (1) Coal #1 Pulverizer/Dryer, nominally rated at 33 tons per hour, and 36.0 million (MM) Btu per hour.

The particulate matter emissions from the Coal #1 Pulverizer/Dryer are controlled by a baghouse, identified as Coal #1 Pulverizer/Dryer Baghouse.

- (2) One (1) Coal #2 Pulverizer/Dryer, nominally rated at 9 tons per hour, and 9.23 MMBtu per hour.

The particulate matter emissions from the Coal #2 Pulverizer/Dryer are controlled by a baghouse, identified as Coal #2 Pulverizer/Dryer Baghouse.

- (3) Flux Pulverizer(s)/Dryer(s), nominally rated at a total of 13 tons per hour and 14.58 MMBtu per hour.

Permit Writer: Iryn Calilung

Due to design uncertainty at this time of the review, the numbers of flux pulverizers/dryers and associated pieces of control equipment are permitted to change, however, the total heat input and process capacity will remain the same.

The particulate matter emissions from the Flux Pulverizer(s)/Dryer(s) are controlled by baghouse(s), identified as Flux Pulverizer(s)/Dryer(s) Baghouse(s).

These dryers use natural gas and are equipped with ~~L~~ low NO<sub>x</sub> burners.

The controlled emissions from the:

- Coal #1 Pulverizer/Dryer,
  - Coal #2 Pulverizer/Dryer, and
  - Flux Pulverizer(s)/Dryer(s)
- exhaust through a stack, identified as Stack 1002.

#### SECTION D.4

##### (c) Stack 1003

One (1) Ore Dryer, nominally rated at 125 tons per hour and 25 million (MM) Btu per hour.

The particulate matter emissions from the Ore Dryer are controlled by a baghouse, identified as Ore Dryer Baghouse and exhaust through a stack, identified as Stack 1003.

#### SECTION D.5

##### (d) Stack 1004

Coal Railcar Unloading, nominally rated at 165 tons per hour, with a baghouse, identified as Coal Railcar Unloading Baghouse, for particulate control and exhaust through a stack, identified as Stack 1004.

#### SECTION D.6

##### (e) Fugitive Dust Collection Systems

- (1) Fugitive Dust Collection #1, with baghouse(s), identified as Fugitive Baghouse #1, for particulate control and exhaust through a stack, identified as Stack 1001.
- (2) Fugitive Dust Collection #2, with baghouse(s), identified as Fugitive Baghouse #2, for particulate control and exhaust through a stack, identified as Stack 1005.

Due to design uncertainty at this time of the review, the number of fugitive dust collection baghouses is permitted to change, however, the total dust collection volume and emissions will remain the same.

#### SECTION D.7

- (f) Material storage, handling, transfer, and conveying, each nominally rated at 200 tons per hour.

Permit Writer: Iryn Calilung

Summary of Bin Vents and Corresponding Operations			
Bin Vent ID	Operation	Bin Vent ID	Operation
1006	Raw Ore Silo	1022	Flux Silo #3
1010	Raw Flux Silo	1023	Flux Silo #4
1011	Binder Silo	1024	Recycle Silo
1014	Raw Coal Silo	1025	Flux Silo #5
1015	Recycle Fines Silo	1027	EAF Dust Silo
1018	Raw Coal Silo	1037	Product Silo
1019	Pulverized Coal Silo	1038	Raw Flux Silo
1020	Pulverized Coal Silo	1040	Slag Separator Baghouse Silo
1021	Pulverized Coal Silo	Total	17
These silos are controlled by bin vent filters.			

SECTION D.8

(g) Paved and Unpaved Roadways

Roadways used by the semi-tractor trailers, employee vehicles, and support vehicles are either paved or unpaved stone or gravel.

Fugitive dust emissions are controlled by the implementation of the Fugitive Dust Control Plan (FDCP).

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

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

SECTION D.9

(a) Two (2) Cooling Towers:

- (1) Identified as Cooling Tower 743, with nominal capacity of 23,450 gallons per minute and 0.005% drift rate.
- (2) Identified as Cooling Tower 726, with nominal capacity of 10,350 gallons per minute and 0.005% drift rate.

(b) Emergency Generator(s)

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

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

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

Permit Writer: Iryn Calilung

## SECTION B

## GENERAL CONDITIONS

<b>Part 1</b>	<b>General Construction Conditions</b>
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**B.1** Permit No Defense [IC 13-11 through 13-20][IC 13-22 through 13-25] [IC 13-17]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

**B.2** Effective Date of the Permit [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

**B.3** Revocation of Permits [326 IAC 2-2-8]

Pursuant to 326 IAC 2-2-8(a)(1), this permit to construct shall expire if construction is not commenced within eighteen (18) months after receipt of this approval, if construction is discontinued for a period of eighteen (18) months or more, or if construction is not completed within a reasonable time. The IDEM may extend the eighteen (18) month period upon satisfactory showing that an extension is justified.

**B.4** Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

**B.5** Advanced Source Modification Approval [326 IAC 2-7-5(16)] [326 IAC 2-7-10.5]

The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.

**B.6** Significant Source Modification [326 IAC 2-7-10.5(h)]

This document shall also become the approval to operate pursuant to 326 IAC 2-7-10.5(h) when, prior to start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed or modified as proposed in the application or the permit. The emissions units covered in [this permit](#) may begin operating on the date the affidavit of construction is postmarked or hand delivered to IDEM if constructed as proposed.

If construction is completed in phases: i.e.: the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for NSPS shall be applicable to each individual phase.

- (b) If actual construction of the emissions units differs from the construction or modification proposed in the application or the permit in a manner that is regulated under the provisions of 326 IAC 2-2, the Permittee may not begin operation until the source modification has been revised pursuant to the provisions of that rule and an Operation Permit Validation Letter is issued.



Permit Writer: Iryn Calilung

- (c) If actual construction of the emissions units differs from the construction proposed in the application or the permit in a manner that is not regulated under the provisions of 326 IAC 2-2, the Permittee may not begin operation until the source modification has been revised pursuant to the provisions of that rule and the provisions of 326 IAC 2-7-11 or 326 IAC 2-7-12 and an Operation Permit Validation Letter is issued.
- (d) The Permittee shall attach the Operation Permit Validation Letter received from the OAQ [to this permit](#).

B.7 General Provisions and NSPS Reporting [326 IAC 12-1][40 CFR Part 60, Subpart A]

- (a) The provisions of 40 CFR Part 60, Subpart A (General Provisions), which are incorporated by reference in 326 IAC 12-1, apply to the Coal #1 Dryer and Coal #2 Dryer.
- 
- (b) Pursuant to the New Source Performance Standards (NSPS), 40 CFR Part 60 Subpart Y, the Permittee shall report the following at the appropriate times:
    - (1) Notification of the commencement of construction date of the affected units (postmarked no later than 30 days after such date) [40 CFR 60.7a(1)];
    - (2) Notification of the actual initial start-up date of the affected units (postmarked [no later than](#) 15 days after such date) [40 CFR 60.7a(3)];
    - (3) Date of performance testing (at least 30 days prior to such date), when required by a condition elsewhere in this permit; and
    - (4) Notification of the anticipated date for conducting opacity observations (postmarked no later than 15 days after such date) [40 CFR 60.7a(6)].

Reports are to be sent to:

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

The application and enforcement of these standards have been delegated to the IDEM, OAQ. The requirements of 40 CFR Part 60 are also federally enforceable.

Permit Writer: Iryn Calilung

## SECTION B

## GENERAL CONDITIONS

<b>Part 2</b>	<b>General Operating Conditions</b>
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### B.8 Definitions [326 IAC 2-7-1]

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

### B.9 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5] [326 IAC 2-7-4(a)(1)(D)] [IC 13-15-3-6(a)]

- (a) This permit, **T033-19475-00092**, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. 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.10 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.11 Enforceability [326 IAC 2-7-7]

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

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

### B.13 Severability [326 IAC 2-7-5(5)]

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

Permit Writer: Iryn Caillung

B.14 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

B.15 Duty to Provide Information [326 IAC 2-7-5(6)(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 require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, 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.16 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form or its equivalent, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.17 Annual Compliance Certification [326 IAC 2-7-6(5)]

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

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

and

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

Permit Writer: Iryn Calilung

- (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 2-7-5(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 “responsible official” as defined by 326 IAC 2-7-1(34).

B.18 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]  
[326 IAC 1-6-3]

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- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) **not later than** ninety (90) days after issuance of this permit, including the following information on each facility:
  - (1) Identification of the individual(s) by **job title or classification** responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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

Permit Writer: Iryn Calilung

- (b) The Permittee shall implement the PMPs, including any required record keeping as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) 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 PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) To the extent the Permittee is required by 40 CFR Part 60 or 40 CFR Part 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.19 Emergency Provisions [326 IAC 2-7-16]**

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- (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 otherwise provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,  
Compliance Section), or  
Telephone Number: 317-233-5674 (ask for Compliance Section)  
Facsimile Number: 317-233-5967

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

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

Permit Writer: Iryn Calilung

100 North Senate Avenue  
Indianapolis, Indiana 46204

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

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

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) for the emission unit that experienced an emergency 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 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this

Permit Writer: Iryn Calilung

permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) Any applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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- (a) Deviations from any permit requirements (for emergencies see Section B.19 - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

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

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

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

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

**B.22 Permit Modification, Reopening, Revocation and Reissuance, or Termination**  
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

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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 Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, 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 2-7-9(c)]

**B.23 Permit Renewal** [326 IAC 2-7-3] [326 IAC 2-7-4]

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Permit Writer: Iryn Calilung

- (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 2-7-4. Such information shall be included in the application for each emission unit at this source,

except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (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 2-7 until IDEM, OAQ, 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.24 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

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

Permit Writer: Iryn Calilung

- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

Permit Writer: Iryn Calilung

B.25 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]  
[326 IAC 2-7-12 (b)(2)]

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

B.26 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
  - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204  
  
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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Permit Writer: Iryn Calilung

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

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
- (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

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

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

B.27 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2-2]

- (a) A modification, construction, or reconstruction is governed by the applicable requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any major modification at an existing major source is governed by the requirements of 326 IAC 2-2-2.

B.28 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1] [IC 13-17-3-2]

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

Permit Writer: Iryn Calilung

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

B.29 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204  
  
The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.30 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, 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) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

Permit Writer: Iryn Calilung

B.31 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

Permit Writer: Iryn Calilung

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

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

#### C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour [40 CFR Part 52 Subpart P] [326 IAC 6-3-2]

- (a) Pursuant to 40 CFR 52 Subpart P, particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (b) Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

This condition is not federally enforceable.

#### 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 forty percent (40%) 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]

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.

326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

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

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

326 IAC 9-1-2 is not federally enforceable.

Permit Writer: Iryn Calilung

**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).

326 IAC 6-4-2(4) is not federally enforceable.

**C.6 Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]**

---

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the fugitive dust control plan ([Section E of this permit](#)).

**C.7 Operation of Equipment [326 IAC 2-7-6(6)]**

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Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit(s) vented to the control equipment are in operation.

**C.8 Motor Vehicle Fugitive Dust Sources [326 IAC 6-4-4]**

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Pursuant to 326 IAC 6-4-4, no vehicle shall be driven or moved on any public street, road, alley, highway, or other thoroughfare, unless such vehicle is so constructed as to prevent its contents from dripping, sifting, leaking, or otherwise escaping there from so as to create conditions which result in fugitive dust. This section applies only to the cargo any vehicle may be conveying and mud tracked by the vehicle.

**C.9 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.

The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

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The Permittee shall comply with the applicable requirements of 326 IAC 14-10, 326 IAC 18, and 40 CFR 61.140.

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

**C.11 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 [applicable](#) procedures approved by IDEM, OAQ.

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted



Permit Writer: Iryn Calilung

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, 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.12 Compliance Requirements [326 IAC 2-1.1-11]**

---

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements by issuing an order under 326 IAC 2-1.1-11.

Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other [applicable](#) methods approved by the commissioner or the U. S. EPA.

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

#### **C.13 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

---

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

The Permittee shall be responsible for installing any necessary equipment [listed in Section D of this permit](#) and initiating any required monitoring related to that equipment.

If due to circumstances beyond its [reasonable](#) control, that equipment cannot be installed and operated [not later than](#) ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

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

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

---

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

Permit Writer: Iryn Calilung

C.15 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)]  
[326 IAC 2-7-6(1)]

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- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( 2%) of full scale reading.
- (a) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

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

C.16 Emergency Reduction Plans (ERPs) [326 IAC 1-5-2] [326 IAC 1-5-3]

---

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:  
  
Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204  
  
**not later than** 180 days from the date on which this source commences operation.  
  
The ERP does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).
- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.17 Risk Management Plan (RMP) [326 IAC 2-7-5(12)] [40 CFR Part 68.215]

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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 Part 68.

Permit Writer: Iryn Calilung

C.18 Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports  
[326 IAC 2-7-5] [326 IAC 2-7-6]

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- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition [specified in Section D](#) of this permit.

If a Permittee is required to have an:

- Operation, Maintenance and Monitoring (OMM) Plan; or
- Parametric Monitoring Plan; or
- Start-up, Shutdown, and Malfunction (SSM) Plan

under 40 CFR 60 or 40 CFR Part 63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions

A CRP shall be submitted to IDEM, upon request. The CRP shall be prepared [not later than](#) ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:

- (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
- (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current:
  - Compliance Response Plan; or
  - Operation, Maintenance and Monitoring (OMM) Plan; or
  - Parametric Monitoring Plan; and
  - Start-up, Shutdown, and Malfunction (SSM) Plan;and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan to include such response steps taken.

The OMM Plan or Parametric Monitoring and SSM Plan shall be submitted within the time frames specified by the applicable 40 CFR Part 60 or 40 CFR Part 63 requirement.

- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
- (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan; or
  - (2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan or Parametric Monitoring Plan and Start-up, Shutdown, and Malfunction (SSM) Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional [appropriate](#) response steps as expeditiously as practical. Taking such additional [appropriate](#) response steps shall not be considered a deviation from this permit

Permit Writer: Iryn Calilung

so long as the Permittee documents such response steps in accordance with this condition.

- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
  - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B.21-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.19 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]  
[326 IAC 2-7-6]

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- (a) When the results of a stack test performed in conformance with Section C.11 - 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 appropriate response actions are being

Permit Writer: Iryn Calilung

implemented.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

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

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

#### **C.20 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)] [326 IAC 2-6]**

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

The statement must be submitted to:

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

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

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

#### **C.21 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2]**

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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

Permit Writer: Iryn Calilung

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 **no later than** ninety (90) days of permit issuance.
- (c) Pursuant to 326 IAC 2-2-8(b), if there is a reasonable possibility that a “project” (as defined in 326 IAC 2-2-1 (qq)) at a major source other than projects at a Clean Unit which is not part of a “major modification” (as defined in 326 IAC 2-2-1 (ee)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1 (rr)), the Permittee shall comply with following:
  - (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1 (qq)) document and maintain the following records:
    - (A) A description of the project;
    - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project;
    - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
      - (i) Baseline actual emissions;
      - (ii) Projected actual emissions;
      - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii); and
      - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
  - (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any emissions unit identified in (1)(B) above; and
  - (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (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 **reasonable** response steps taken must be reported. This report shall be submitted **no later than thirty** (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Permit Writer: Iryn Calilung

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

- (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 **no later than** thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C.21 - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq)) and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:

(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C.21 - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C.21 - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx), for that regulated NSR pollutant, and

(2) The emissions differ from the preconstruction projection as documented and maintained under Section C.21 - General Record Keeping Requirements (c)(1)(C)(ii).

- (g) The report shall be submitted **not later than** sixty (60) days after the end of the year and contain the following:

(1) The name, address, and telephone number of the major stationary source.

(2) The annual emissions calculated in accordance with (c)(2) and (3) in Section

Permit Writer: Iryn Calilung

### C.21 - General Record Keeping Requirements.

(3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3).

(4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

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

(h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C.21- 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.23 Compliance with 40 CFR Part 82 and 326 IAC 22-1

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

### Post Construction Ambient Monitoring

#### C.24 Post Construction Ambient Monitoring [326 IAC 2-2-4]

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Pursuant to 326 IAC 2-2-4, the Permittee shall comply with the following:

- (a) The Permittee shall establish two (2) ambient monitoring sites at locations approved by IDEM.
- (b) All monitors shall meet the operating and maintenance criteria outlined in the IDEM, OAQ Quality Assurance Manual.
  - (i) Each monitoring site shall monitor PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO and ozone.
  - (ii) Based on the prevailing winds, one of the two (2) sites shall also monitor the following meteorological parameters:
    - - wind speed,
    - - wind directions, and
    - - outdoor temperature.
- (c) The Permittee shall operate the monitors for at least thirty six (36) months from the initial start of the plant and conduct a minimum of thirty six (36) months of post-construction monitoring at each site.
- (d) The monitoring must be performed using US EPA approved methods, procedures, and



Permit Writer: Iryn Calilung

quality assurance programs and be in accordance with plan and protocol approved by IDEM, OAQ.

- (e) A monitoring and quality assurance plan shall be submitted to the:

Indiana Department of Environmental Management  
Office of Air Quality, Ambient Monitoring Section  
2525 North Shadeland Avenue, Indianapolis, IN

no later than 90 calendar days in advance of the start of the monitoring. The plan must be approved by OAQ prior to commencement of monitoring.

- (f) Ambient data along with precision and accuracy data from the monitors shall be submitted on a quarterly basis in a format approved by IDEM, OAQ, no later than 60 days after the end of the quarter being reported.
- (g) The quarterly summary of monitoring shall be submitted to IDEM, OAQ, Ambient Monitoring Section, in the same address mentioned above.
- (h) No sooner than 6 months prior to the end of the minimum monitoring period, the Permittee may submit an application to modify the permit to discontinue one or more of the monitoring sites.

The application shall include the air quality and meteorological monitoring data collected, actual emissions of PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, ozone, and actual iron nuggets production and any addition information that would support a request to discontinue the monitoring site(s).

- (i) The commissioner shall review the information submitted by the Permittee and other available information to determine whether the proper operation of the source could potentially cause or contribute to a violation of any National Ambient Air Quality Standard or maximum allowable increase under 326 IAC 1-3-4 or 326 IAC 2-2-6.
- (j) Any decision regarding the application shall proceed in accordance with the significant permit modifications provisions of 326 IAC 2-7-12(d).

### **Clean Unit General Requirements**

#### **C.25 Clean Unit [326 IAC 2-2.2]**

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Pursuant to 326 IAC 2-2.2, emission units designated as Clean Units are subject to the following requirements:

- (a) Clean Units shall comply with all applicable requirements per 326 IAC 2-7 contained in this permit. No physical change or change in the method of operation shall be undertaken at these emissions units that would allow them to operate in a manner inconsistent with the physical or operational characteristics of the emission units.
- (b) Any project at the Clean Units for which actual construction begins after the effective date of the clean unit designations and before the expiration date shall be considered to have occurred while the emissions units were clean units.

Permit Writer: Iryn Calilung

- (c) If a project at the Clean Units does not cause the need for a change in the emission limitations or work practice requirements in this permit for these units that were adopted in conjunction with BACT and the project would not alter any physical or operational characteristics that formed the basis for the BACT determination, the clean unit designations remain unchanged.
  
- (d) If a project causes the need for a change in the emission limitations or work practice requirements in this permit for the Clean Unit that were adopted in conjunction with BACT or the project would alter any physical or operational characteristics that formed the basis for the BACT determination, then the clean unit designations shall expire upon issuance of the necessary permit modifications, unless the units re-qualify as clean units. If the Permittee begins actual construction on the project without first applying to modify the emissions unit's permit, the clean unit designations shall expire immediately prior to the time when actual construction of this project begins.
  
- (e) A project that causes emissions units to lose their clean unit designations shall be subject to the applicability requirements of 326 IAC 2-2-2(d)(1) through 326 IAC 2-2-2(d)(4) and 326 IAC 2-2-2(d)(6).

Permit Writer: Iryn Calilung

## SECTION D.1

## FACILITY OPERATION CONDITIONS

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

#### Stack 1001 and Roof Monitor

One (1) Rotary Hearth Furnace, identified as RHF, nominally rated at 75.521 tons per hour of iron nugget product and 217 million (MM) Btu per hour. This RHF uses natural gas as the primary fuel, and propane as a back up fuel.

The sulfur dioxide (SO<sub>2</sub>), particulate matter, lead, mercury, fluorides, and acid gases emissions from the RHF are controlled by up to four (4) wet scrubbers, identified as Wet Scrubber 1, Wet Scrubber 2, Wet Scrubber 3, and Wet Scrubber 4. These wet scrubbers exhaust to a common duct and then to Stack 1001.

The nitrogen oxides (NO<sub>x</sub>) emissions from the RHF are **reduced** by low NO<sub>x</sub> burners, in addition to the low excess air (LEA) design.

The volatile organic compound (VOC), carbon monoxide (CO), and organic hazardous air pollutants (HAPs) emissions from the RHF are controlled by the air infiltration inherent design of the RHF.

The RHF is equipped with the following continuous emission monitoring systems (CEMSs): SO<sub>2</sub>, VOC, NO<sub>x</sub> and CO.

The controlled emissions from the RHF exhaust through a stack, identified as Stack 1001.

The remaining uncontrolled emissions exhaust through the Roof Monitor.

Stack 1001 is equipped with a continuous opacity monitor (COM) to measure the visible emissions.

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

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

#### D.1.1 Rotary Hearth Furnace (RHF) PSD BACT Limits [326 IAC 2-2] [326 IAC 2-4.1]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards.

If the stack test required under Condition D.1.6 demonstrates that these emission limits are less stringent than what is achieved in practice, the Department may, at its discretion, use the authority under IC 13-15-7-2 and 326 IAC 2-2 to reopen and revise the emission limit(s) to more closely reflect the actual stack test results.

Because a best available control technology (BACT) level has not previously been established for an iron nugget production plant, if the stack test required under Condition D.1.6 demonstrates that

Permit Writer: Iryn Calilung

the emission limit initially established in this permit is not achievable in practice, the Permittee may submit to the Department an application for a revision to the permit to reflect the emission level achieved in the stack test. The Permittee has the burden of demonstrating that it took all steps necessary to ensure that the emissions levels achieved in the stack test were the lowest achievable.

Any revisions of the emissions limits made as the result of this provision shall be subject to the best available control technology (BACT) review and air quality analysis, specified in 326 IAC 2-2.

The Department will provide an opportunity for public notice and comment under 326 IAC 2-7-10.5(f)(1) prior to finalizing any permit modification. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to the permit modification.

This provision does not have any impact on current or future enforcement actions.

(a) Fuel

The rotary hearth furnace (RHF) burners shall use natural gas as fuel and propane as back up fuel.

Wet Scrubbers

(b) The wet scrubbers shall capture and control the Sulfur dioxide (SO<sub>2</sub>), Sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>), Fluoride, filterable and condensable particulate matter (PM/PM<sub>10</sub>), Lead, Mercury, and Beryllium emissions from the rotary hearth furnace (RHF).

(c) The SO<sub>2</sub> emissions after control from the RHF shall not exceed 185.2 pounds per hour based on a 3-hour block average. The overall control efficiency of each wet scrubber shall be at least 90% when controlling the SO<sub>2</sub> emissions from the RHF.

(d) The Sulfuric Acid Mist (H<sub>2</sub>SO<sub>4</sub>) emissions after control from the RHF shall not exceed 0.66 pounds per ton of iron nugget product and 50.0 pounds per hour, based on a 3-hour block average.

The Permittee's compliance with these Sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>) limits is also required pursuant to 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs)).

(e) The Fluoride emissions after control from the RHF shall not exceed 0.33 pounds per ton of iron nugget product and 24.57 pounds per hour, based on a 3-hour block average.

The Permittee's compliance with these Fluoride limits is also required pursuant to 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs)).

(f) The filterable and condensable particulate matter (PM/PM<sub>10</sub>) emissions after control from the RHF shall not exceed 0.03 grains per dry standard cubic feet and 39.35 pounds per hour, based on a 3-hour block average.

(g) The Lead emissions after control from the RHF shall not exceed 0.02 pounds per ton of iron nugget product and 1.36 pounds per hour, based on a 3-hour block average.

The Permittee's compliance with these Lead limits is also required pursuant to 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs)).

Permit Writer: Iryn Calilung

- (h) The Mercury emissions after control from the RHF shall not exceed 0.001 pounds per ton of iron nugget product and 0.05 pounds per hour, based on a 3-hour block average.

The Permittee's compliance with these Mercury limits is also required pursuant to 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs)).

- (i) The Beryllium emissions after control from the RHF shall not exceed 0.00027 pounds per ton of iron nugget product and 0.02 pounds per hour, based on a 3-hour block average.

The Permittee's compliance with these Beryllium limits is also required pursuant to 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs)).

Thermal Oxidation by Infiltration Air Design

- (j) The Thermal Oxidation by Infiltration Air Design of the RHF shall capture and control the carbon monoxide (CO) and Volatile organic compound (VOC) emissions from the RHF.

- (k) The CO emissions from the RHF shall not exceed 0.77 pounds per ton of iron nugget product, based on a 24-hour block average and 58.15 pounds per hour, based on a 24-hour block average.

- (l) The VOC emissions from the RHF shall not exceed 0.074 pounds per ton of iron nugget product, based on a 24-hour block average and 5.59 pounds per hour, based on an 8-hour block average.

Low NO<sub>x</sub> Burners and Low Excess Air

- (m) Low NO<sub>x</sub> burners shall be installed and utilized to reduce the Nitrogen Oxides (NO<sub>x</sub>) emissions from the RHF. The use of Low Excess Air (LEA) will also be used in addition to low NO<sub>x</sub> burners.

- (n) The NO<sub>x</sub> emissions from the RHF shall not exceed 2.8 pounds per ton of iron nugget product, based on a 24-hour block average and 211.9 pounds per hour, based on a 24-hour block average.

Stack 1001

- (o) The visible emissions from Stack 1001 shall not exceed 3 5% opacity, based on a 6-minute average. Compliance will be demonstrated through the use of a continuous opacity monitor (COM) system.

Roof Monitor

- (p) The visible emissions from the Roof Monitor shall not exceed 3% opacity, based on a 6-minute average.

D.1.2 Rotary Hearth Furnace (RHF) Clean Unit [326 IAC 2-2.2]

- (a) Pursuant to 326 IAC 2-2.2 (Clean Unit), the Rotary Hearth Furnace (RHF) is classified as Clean Unit for:

- (1) Sulfur dioxide (SO<sub>2</sub>),
- (2) NO<sub>x</sub>,
- (3) VOC,

Permit Writer: Iryn Calilung

- (4) CO,
  - (5) Sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>)
  - (6) Fluoride,
  - (7) Filterable and condensible particulate matter (PM/PM<sub>10</sub>),
  - (8) Lead,
  - (9) Mercury, and
  - (10) Beryllium.
- (b) The Clean Unit designations for the RHF are in effect for ten (10) years from the initial start up of the RHF.
- (c) In order to maintain the clean unit designations for the RHF, the Permittee shall comply with the RHF's Sulfur dioxide (SO<sub>2</sub>), NO<sub>x</sub>, VOC, CO, Sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>) Fluoride, Filterable and condensible particulate matter (PM/PM<sub>10</sub>), Lead, Mercury, Beryllium, and Opacity PSD BACT limits.

#### D.1.3 Hazardous Air Pollutants Major Limits [326 IAC 2-4.1-1]

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- (a) Pursuant to 326 IAC 2-4.1-1, the rotary hearth furnace (RHF) shall use natural gas as fuel and propane as back up fuel.
- (b) Pursuant to 326 IAC 2-4.1-1, the wet scrubbers shall control the Manganese emitted from the rotary hearth furnace (RHF).

#### D.1.4 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]

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A Preventive Maintenance Plan (PMP), in accordance with Section B.18 - Preventive Maintenance Plan (PMP), of this permit, is required for the RHF and its emission control devices.

### Compliance Determination Requirements

#### D.1.5 Operation of Add-on Control Devices Exhausting Through Stack 1001 [326 IAC 2-2] [326 IAC 2-4.1]

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- (a) Wet Scrubbers  
Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD) and 326 IAC 2-4.1 (Major Source of Hazardous Air Pollutants (HAPs)), the wet scrubbers for Sulfur dioxide (SO<sub>2</sub>), Sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>), Fluoride, filterable and condensible particulate matter (PM/PM<sub>10</sub>), Lead, Mercury, Beryllium, and hazardous air pollutants emissions control shall be in operation and control the emissions from the Rotary Hearth Furnace (RHF) at all times when the RHF is in operation.
- (b) Low NO<sub>x</sub> Burners  
Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Rotary Hearth Furnace (RHF) shall utilize low NO<sub>x</sub> burners at all times when the RHF is in operation.

Permit Writer: Iryn Calilung

D.1.6 Rotary Hearth Furnace (RHF) Testing Requirements [326 IAC 2-7-6(1) and (6)] [326 IAC 2-2] [326 IAC 2-1.1-11] [326 IAC 2-4.1]

---

(a) Pursuant to 326 IAC 2-2, 326 IAC 2-4.1, and 326 IAC 2-7, not later than 60 days after achieving maximum production rate, but no later than 180 days after initial start-up of the RHF, the Permittee shall perform compliance testing for the following:

- (1) Total Filterable and condensible particulate matter (PM/PM<sub>10</sub>),
- (2) Lead,
- (3) Sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>),
- (4) Mercury,
- (5) Fluoride, and
- (6) Beryllium

using 40 CFR Part 60, Appendix A, Method 5, Method 8, Method 12, Method 13A, Method 13B, Method 29, Method 201, Method 201A, Method 202, or methods as approved by the Commissioner.

- (b) Pursuant to 326 IAC 2-1.1-11, not later than 60 days after achieving maximum production rate, but no later than 180 days after initial start-up of the RHF, the Permittee shall perform compliance tests to demonstrate compliance with Condition D.1.3, utilizing methods as approved by the Commissioner.
- (c) The filterable and condensible particulate matter (PM/PM<sub>10</sub>), Lead and Sulfuric acid mist (H<sub>2</sub>SO<sub>4</sub>) tests shall be repeated at least once every 2.5 years from the date of the last valid compliance demonstration.
- (d) The Mercury tests shall be repeated at least once a year from the date of the last valid compliance demonstration.
- (e) The Fluoride and Beryllium tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration.
- (f) These tests shall be performed using methods as approved by the Commissioner.
- (g) Testing shall be conducted in accordance with Section C.11 - Performance Testing.

D.1.7 Rotary Hearth Furnace (RHF) CO, VOC, NO<sub>x</sub>, and SO<sub>2</sub> Continuous Emission Rate Monitoring Requirement [326 IAC 2-2] [326 IAC 3-5] [40 CFR Part 64]

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SO<sub>2</sub> CEMS

- (a) Pursuant to 326 IAC 2-2, 326 IAC 3-5-1(d) and 40 CFR Part 64, the Permittee shall install, calibrate, certify, operate, and maintain continuous emission monitoring system(s) (CEMSs) and related equipment for measuring inlet and outlet SO<sub>2</sub> emissions rates (in pounds per hour) from the RHF exhaust in accordance with 326 IAC 3-5-2 and 326 IAC 3-5-3.

Permit Writer: Iryn Caillung

The control efficiency of the wet scrubbers is determined by calculating the 24-hour daily geometric average percent reduction using EPA Method Reference 19 or other approved methods and determining the inlet and outlet data.

CO, VOC, and NO<sub>x</sub> CEMS

- (b) Pursuant to 326 IAC 2-2 and 326 IAC 3-5-1(d), the Permittee shall install, calibrate, certify, operate, and maintain continuous emission monitoring systems (CEMSs) and related equipment for measuring CO, VOC, and NO<sub>x</sub> emissions rates (in pounds per hour) from the RHF exhaust in accordance with 326 IAC 3-5-2 and 326 IAC 3-5-3.

D.1.8 Stack 1001 Continuous Opacity Monitoring (COM) [326 IAC 2-2] [326 IAC 3-5] [40 CFR Part 64]

Pursuant to 326 IAC 2-2, 326 IAC 3-5 and 40 CFR Part 64, the Permittee shall install, calibrate, certify, operate, and maintain a continuous opacity monitoring (COM) system and related equipment to measure opacity from Stack 1001 in accordance with 326 IAC 3-5-2 and 326 IAC 3-5-3.

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

D.1.9 Maintenance of Continuous Opacity Monitoring (COM) Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) The continuous opacity monitoring (COM) system shall meet the performance specifications of 40 CFR Part 60, Appendix B, Performance Specification No. 1, and is subject to monitor system certification requirements pursuant to 326 IAC 3-5.
- (b) In the event that a breakdown of a continuous opacity monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (c) If a COM is not online within twenty-four (24) hours of shutdown or malfunction of the primary COM and the RHF is in operation, the Permittee shall provide certified opacity reader(s), who may be employees of the Permittee or independent contractors, to self-monitor the emissions from the emission unit stack.
- (1) Visible emission readings shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, for a minimum of five (5) consecutive six (6) minute averaging periods beginning not more than twenty-four (24) hours after the start of the malfunction or down time.
- (2) Method 9 opacity readings shall be repeated for a minimum of five (5) consecutive six (6) minute averaging periods at least once every four (4) hours during daylight operations, until such time that a COM is in operation.
- (3) Method 9 readings may be discontinued once a COM is online.
- (4) Any opacity exceedances determined by Method 9 readings shall be reported with the Quarterly Opacity Exceedances Reports.
- (d) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C.18 - Compliance Response Plan - Preparation, Implementation, Records, and Reports. Observation of abnormal emissions that do not violate an applicable opacity limit is not a deviation from this permit. Failure to take response steps in accordance with Section C.18 - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.



Permit Writer: Iryn Calilung

- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous opacity monitoring system pursuant to 326 IAC 3-5, 326 IAC 2-2, and 40 CFR Part 64.

D.1.10 Maintenance of Continuous Emission Monitoring (CEM) Equipment [326 IAC 2-7-5(3)(A)(iii)]  
[326 IAC 2-7-6]

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- (a) The continuous emission monitoring systems (CEMs) shall meet the performance specifications of 40 CFR Part 60, Appendix B, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5.
- (b) In the event that a breakdown of the SO<sub>2</sub>, CO, VOC, and NO<sub>x</sub> continuous emission monitoring system (CEMS) occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (c) SO<sub>2</sub> CEMS  
Whenever the SO<sub>2</sub> CEMS is malfunctioning or down for repairs or adjustments for a period of four (4) hours or more and the rotary hearth furnace (RHF) is in operation, the Permittee shall monitor and record the pH, and flow rate of the wet scrubbers.
  - (1) Scrubber parametric monitoring readings shall be recorded at least once per hour until the primary CEMS or a backup CEMS is brought online.
  - (2) When for any one reading, the pH or flow rate is outside the normal range or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C.18- Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports.
  - (3) The instrument used for determining the pH and flow rate to comply with Section C.15 - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.
  - (4) Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) – Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.
- (d) CO, NO<sub>x</sub>, and VOC CEMS  
Whenever the CO, NO<sub>x</sub> or VOC CEMS is malfunctioning or down for repairs or adjustments for a period of four (4) hours or more and the rotary hearth furnace (RHF) is in operation, the Permittee shall continuously monitor and record the operating temperature of the rotary hearth furnace (RHF).  
  
The RHF parametric monitoring readings shall be recorded continuously until the primary CEMS or a backup CEMS is brought online.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5, 326 IAC 2-2, and 40 CFR Part 64.

Permit Writer: Iryn Calilung

**D.1.11 Scrubbers Operation [326 IAC 2-2] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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Scrubber Inspection

- (a) An inspection of the wet scrubbers shall be performed at least once every two (2) years, in accordance with the Preventive Maintenance Plan (PMP) prepared in accordance with Section B.18 - Preventive Maintenance Plan (PMP).

Defective parts shall be repaired or replaced.

A record shall be kept of the results of the inspection and the part(s) repaired or replaced.

- (b) Inspections shall be made whenever there is an outage of any nature lasting more than three (3) days unless such measurements have been taken within the past twelve (12) months.
- (c) Reasonable response steps shall be taken in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports for any improper or abnormal conditions found during an inspection.

Discovery of an abnormal or improper condition is not a deviation from this permit.

- (d) Scrubber Parametric Monitoring

The Permittee shall record the pH, and flow rate of the wet scrubbers, at least once per day, when the rotary hearth furnace (RHF) is in operation when venting to the atmosphere.

- (e) When for any one reading, the pH, or flow rate is outside the normal range or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C.18- Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports.
- (f) The instrument used for determining the pH and flow rate shall comply with Section C.15 - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

- (g) Response Steps

Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) – Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

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

**D.1.12 Record Keeping Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

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- (a) The Permittee shall maintain records required under 326 IAC 3-5-6 at the source in a manner that they may be inspected by the IDEM, OAQ, or the US EPA, if so requested or required.
- (b) The Permittee shall record the output (in pounds per hour) of the CO, VOC, NO<sub>x</sub> and SO<sub>2</sub> continuous emission monitoring systems (CEMSs), and shall perform the required record keeping and reporting, pursuant to 326 IAC 3-5-6, 326 IAC 3-5-7 and 40 CFR Part 64, that includes, but not limited to, the following:

Permit Writer: Iryn Calilung

- (1) All documentation relating to:
    - (A) Design, installation, and testing of all elements of the monitoring system.
    - (B) Required corrective action or compliance plan activities.
  - (2) All maintenance logs, calibration checks, and other required quality assurance activities.
  - (3) All records of corrective and preventive action.
  - (4) A log of plant operations, including the following:
    - (A) Date of facility downtime.
    - (B) Time of commencement and completion of each downtime.
    - (C) Reason for each downtime.
  - (5) Records that describe **any** supplemental monitoring implemented during the downtime to assure compliance with applicable emission limitations.
- (c) The Permittee shall record the output of the continuous opacity monitoring (COM) system and shall perform the required record keeping and reporting, pursuant to 326 IAC 3-5-6 and 326 IAC 3-5-7, that includes, but not limited to, the following:
- (1) All documentation relating to:
    - (A) Design, installation, and testing of all elements of the monitoring system.
    - (B) Required corrective action or compliance plan activities.
  - (2) All maintenance logs, calibration checks, and other required quality assurance activities.
  - (3) All records of corrective and preventive action.
  - (4) A log of plant operations, including the following:
    - (A) Date of facility downtime.
    - (B) Time of commencement and completion of each downtime.
    - (C) Reason for each downtime.
  - (5) Records that describe **any** supplemental monitoring implemented during the downtime to assure compliance with applicable emission limitations.
- (d) The Permittee shall record the scrubber's inspections and part(s) replaced, and make

Permit Writer: Iryn Calilung

such records available upon request to IDEM, OAQ, and the US EPA.

- (e) The Permittee shall maintain the following records, and make such records available upon request to IDEM, OAQ, and the US EPA:
  - (1) Records of the once per **day** readings of the pH, **and** flow rate of the wet scrubbers, during normal operation when venting to the atmosphere.
  - (2) Records of the results of the wet scrubbers inspections.
- (f) The Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan (PMP) and make such records available upon request to IDEM, OAQ, and the US EPA.
- (g) Records necessary to demonstrate compliance shall be available **no later than** 30 days of the end of each compliance period.
- (h) All records shall be maintained in accordance with Section **C.21** - General Record Keeping Requirements of this permit.

D.1.13 Reporting Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- (a) The Permittee shall maintain and submit with the Affidavit of Construction (Section **B.6**), the final design specifications and vendor guarantees of the RHF.
- (b) The Permittee shall maintain and submit to IDEM, OAQ, upon initial start up, a complete written continuous monitoring standard operating procedure (CMSOP) for the COM and CEMS, in accordance with the requirements of 326 IAC 3-5-4.
- (c) The Permittee shall maintain and submit a quarterly report of excess emissions, using the Quarterly Deviation and Compliance Monitoring Report or equivalent, of the following:
  - (1) CO, VOC, NO<sub>x</sub>, and SO<sub>2</sub> readings from the CEMS.
  - (2) Opacity readings from the COM.
- (d) In accordance with 326 IAC 3-5-7(5), the Permittee shall submit reports of continuous monitoring system instrument downtime **when the rotary hearth furnace (RHF) was in operation**, except for zero (0) and span checks, which shall be reported separately.

The reports shall include the following:

- (1) Date of downtime.
- (2) Time of commencement.
- (3) Duration of each downtime.
- (4) Reasons for each downtime.
- (5) Nature of system repairs and adjustments.

Permit Writer: Iryn Calilung

- (e) These reports shall be submitted no later than thirty (30) calendar days following the end of each [reporting period](#) and in accordance with Section [C.22](#) - General Reporting Requirements of this permit.
- (f) These reports do require the certification by the responsible official, as defined by 326 IAC 2-7-1(34).

Permit Writer: Iryn Calilung

## SECTION D.2

## FACILITY OPERATION CONDITIONS

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

#### Stack 1001 and Roof Monitor

- (1) Three (3) Agglomerate Dryers, identified as Green Ball Dryer 1, Green Ball Dryer 2, and Green Ball Dryer 3, with a total nominal rating of 153.248 tons of dried green balls per hour and 205.2 million (MM) Btu per hour.

During normal operations, these dryers operate using the air preheated by the RHF exhaust. These dryers use natural gas during start up periods and when sufficient preheated air is not available. Low NO<sub>x</sub> burners are used to **reduce** the NO<sub>x</sub> emissions from these three (3) Green Ball Dryers when they are using natural gas as fuel.

Each Green Ball Dryer is controlled by a baghouse, identified as Green Ball Dryer Baghouse 1, Green Ball Dryer Baghouse 2, and Green Ball Dryer Baghouse 3. These baghouses exhaust to a common duct and then to Stack 1001.

- (2) One (1) Product Separator/Dryer, nominally rated at 33 tons of dry product per hour, and 25 MMBtu per hour. This dryer uses natural gas and is equipped with low NO<sub>x</sub> burners to **reduce** the NO<sub>x</sub> emissions.

The particulate matter emissions from the Product Separator/Dryer are controlled by a baghouse, identified as Product Separator/Dryer Baghouse.

The controlled emissions from the Green Ball Dryers and Product Separator/Dryer exhaust through a stack, identified as Stack 1001.

The remaining uncontrolled emissions exhaust through the Roof Monitor.

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

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

#### D.2.1 Green Ball Dryers PSD BACT Limits [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards.

If the stack test required under Condition D.2.8 demonstrates that these emission limits are less stringent than what is achieved in practice, the Department may, at its discretion, use the authority under IC 13-15-7-2 and 326 IAC 2-2 to reopen and revise the emission limit(s) to more closely reflect the actual stack test results.

Because a best available control technology (BACT) level has not previously been established for an iron nugget production plant, if the stack test required under Condition D.2.8 demonstrates that the emission limit initially established in this permit is not achievable in practice, the Permittee may submit to the Department an application for a revision to the permit to reflect the emission level achieved in the stack test. The Permittee has the burden of demonstrating that it took all steps necessary to ensure that the emissions levels achieved in the stack test were the lowest achievable.

Permit Writer: Iryn Caillung

Any revisions of the emissions limits made as the result of this provision shall be subject to the best available control technology (BACT) review and air quality analysis, specified in 326 IAC 2-2.

The Department will provide an opportunity for public notice and comment under 326 IAC 2-7-10.5(f)(1) prior to finalizing any permit modification. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to the permit modification.

This provision does not have any impact on current or future enforcement actions.

- (a) Fuel
- (1) The Green Ball Dryers shall use the air preheated by the RHF exhaust.
  - or
  - (2) The Green Ball Dryers shall use natural gas as fuel:
    - during start up and shut down periods only, or
    - when sufficient preheated air is not available.
- (b) When the Green Ball Dryers are using either preheated air or natural gas:
- (1) The filterable particulate matter (PM/PM<sub>10</sub>) emissions from the Green Ball Dryers shall be captured and controlled by three (3) baghouses (identified as Green Ball Dryer Baghouse 1, Green Ball Dryer Baghouse 2, and Green Ball Dryer Baghouse 3).
  - (2) The filterable particulate matter (PM) emissions exhausting through the Green Ball Dryer Baghouses shall not exceed 0.013 grains per dry standard cubic foot of exhaust air, and a total of 30.94 pounds per hour, based on a 3-hour block average.
  - (3) The filterable and condensible particulate matter (PM/PM<sub>10</sub>) emissions exhausting through the Green Ball Dryer Baghouses shall not exceed 0.015 grains per dry standard cubic foot of exhaust air, and a total of 36.26 pounds per hour, based on a 3-hour block average.
- (c) When the Green Ball Dryers are using preheated air only:
- (1) The combined NO<sub>x</sub> emissions from the Green Ball Dryers shall not exceed 0.044 pounds per ton of iron nugget product and a total of 6.74 pounds per hour, based on a 3-hour block average.
  - (2) The combined CO emissions from the Green Ball Dryers shall not exceed 0.242 pounds per ton of iron nugget product and a total of 37.1 pounds per hour, based on a 3-hour block average.
  - (3) The VOC emissions from the Green Ball Dryers shall not exceed a total of 19.34 pounds per hour, based on a 3-hour block average.
  - (4) The SO<sub>2</sub> emissions from the Green Ball Dryers shall not exceed a total of 0.05 pounds per hour, based on a 3-hour block average.

Permit Writer: Iryn Caillung

- (d) When the Green Ball Dryers are using natural gas only:
- (1) Low NO<sub>x</sub> burners shall be installed and utilized to reduce the NO<sub>x</sub> emissions from the Green Ball Dryers when they are using natural gas **as fuel**.
  - (2) The **combined** NO<sub>x</sub> emissions from the Green Ball Dryers shall not exceed 0.22 pounds per ton of **iron nugget product** and **a total of 33.8** pounds per hour, based on a 3-hour block average.
  - (3) The **combined** CO emissions from the Green Ball Dryers shall not exceed 0.33 pounds per ton of **iron nugget product** and **a total of 58.2** pounds per hour, based on a 3-hour block average.
  - (4) The VOC emissions from the Green Ball Dryers shall not exceed **a total of 20.2** pounds per hour, based on a 3-hour block average.
  - (5) The SO<sub>2</sub> emissions from the Green Ball Dryers shall not exceed **a total of 0.14** pounds per hour, based on a 3-hour block average.

#### D.2.2 Product Separator/Dryer PSD BACT Limits [326 IAC 2-2]

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Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards.

If the stack test required under Condition D.2.8 demonstrates that these emission limits are less stringent than what is achieved in practice, the Department may, at its discretion, use the authority under IC 13-15-7-2 and 326 IAC 2-2 to reopen and revise the emission limit(s) to more closely reflect the actual stack test results.

Because a best available control technology (BACT) level has not previously been established for an iron nugget production plant, if the stack test required under Condition D.2.8 demonstrates that the emission limit initially established in this permit is not achievable in practice, the Permittee may submit to the Department an application for a revision to the permit to reflect the emission level achieved in the stack test. The Permittee has the burden of demonstrating that it took all steps necessary to ensure that the emissions levels achieved in the stack test were the lowest achievable.

Any revisions of the emissions limits made as the result of this provision shall be subject to the best available control technology (BACT) review and air quality analysis, specified in 326 IAC 2-2.

The Department will provide an opportunity for public notice and comment under 326 IAC 2-7-10.5(f)(1) prior to finalizing any permit modification. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to the permit modification.

This provision does not have any impact on current or future enforcement actions.

- (a) The Product Separator/Dryer shall use natural gas as fuel.
- (b) The filterable particulate matter (PM/PM<sub>10</sub>) emissions from the Product Separator/Dryer shall be captured and controlled by a baghouse (identified as Product Separator/Dryer Baghouse).



Permit Writer: Iryn Calilung

- (c) The filterable particulate matter (PM) emissions from the Product Separator/Dryer Baghouse shall not exceed 0.0052 grains per dry standard cubic foot of exhaust air, and 2.21 pounds per hour, based on a 3-hour block average.
- (d) The filterable and condensible particulate matter (PM/PM<sub>10</sub>) emissions from the Product Separator/Dryer Baghouse shall not exceed 0.015 grains per dry standard cubic foot of exhaust air, and 7.65 pounds per hour, based on a 3-hour block average.
- (e) Low NO<sub>x</sub> burners shall be installed and utilized to reduce the NO<sub>x</sub> emissions from the Product Separator/Dryer.
- (f) The NO<sub>x</sub> emissions from the Product Separator/Dryer shall not exceed 0.037 pounds per ton of iron nugget product and 1.22 pounds of NO<sub>x</sub> per hour based on a 3-hour block average.
- (g) The CO emissions from the Product Separator/Dryer shall not exceed 0.062 pounds per ton of iron nugget product and 2.05 pounds of CO per hour based on a 3-hour block average.
- (h) The VOC emissions from the Product Separator/Dryer shall not exceed 0.13 pounds of VOC per hour based on a 3-hour block average.
- (i) The SO<sub>2</sub> emissions from the Product Separator/Dryer shall not exceed 0.03 pounds of SO<sub>2</sub> per hour based on a 3-hour block average.

#### D.2.3 Stack 1001 and Roof Monitor Opacity PSD BACT Limit [326 IAC 2-2]

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Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD):

- (a) The visible emissions from Stack 1001 shall not exceed 5% opacity, based on a 6-minute average. Compliance will be demonstrated through the use of a continuous opacity monitor (COM) system.
- (b) The visible emissions from the Roof Monitor shall not exceed 3% opacity, based on a 6-minute average.

#### D.2.4 Green Ball Dryers Clean Unit [326 IAC 2-2.2]

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- (a) Pursuant to 326 IAC 2-2.2 (Clean Unit), the Green Ball Dryers are classified as Clean Units for:
    - filterable and condensible particulate matter (PM/PM<sub>10</sub>), and
    - NO<sub>x</sub>.
  - (b) The Clean Unit designations for the Green Ball Dryers are in effect for ten (10) years from the initial start ups of the Green Ball Dryers.
  - (c) In order to maintain the clean unit designations for the Green Ball Dryers, the Permittee shall comply with the Green Ball Dryer's' filterable and condensible particulate matter (PM/PM<sub>10</sub>), NO<sub>x</sub> and Opacity PSD BACT limits.

Permit Writer: Iryn Calilung

#### D.2.5 Product Separator/Dryer Clean Unit [326 IAC 2-2.2]

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- (a) Pursuant to 326 IAC 2-2.2 (Clean Unit), the Product Separator/Dryer is classified as Clean Unit for:
- filterable particulate matter (PM/PM<sub>10</sub>), and
  - NO<sub>x</sub>.
- (b) The Clean Unit designation for the Product Separator/Dryer is in effect for ten (10) years from the initial start up of the Product Separator/Dryer.
- (c) In order to maintain the clean unit designations for the Product Separator/Dryer, the Permittee shall comply with the Product Separator/Dryer's filterable particulate matter (PM), NO<sub>x</sub> and Opacity PSD BACT limits.

#### D.2.6 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]

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A Preventive Maintenance Plan (PMP), in accordance with Section B.18 - Preventive Maintenance Plan (PMP), of this permit, is required for these facilities and their emission control devices.

### Compliance Determination Requirements

#### D.2.7 Operation of Add-on Control Devices Exhausting Through Stack 1001 [326 IAC 2-2]

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Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD):

##### Baghouse

- (a) The Green Ball Dryers Baghouses for particulate control shall be in operation and control the emissions at all times from the Green Ball Dryers when the Green Ball Dryers are in operation.
- (b) The Product Separator/Dryer Baghouse for particulate control shall be in operation and control the emissions at all times from the Product Separator/Dryer when the Product Separator/Dryer is in operation.

##### Low NO<sub>x</sub> Burners

- (c) The Green Ball Dryers shall be equipped and operated with low NO<sub>x</sub> burners when using natural gas or when sufficient preheated air is not available.
- (d) The Product Separator/Dryer shall be equipped and operated with low NO<sub>x</sub> burners.

#### D.2.8 Green Ball Dryers Baghouses Testing Requirements and Stack 1001 Continuous Opacity Monitoring (COM) [326 IAC 2-7-6(1) and (6)] [326 IAC 2-2] [326 IAC 3-5] [40 CFR Part 64]

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##### Testing Requirements

- (a) Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), 326 IAC 2-7 Part 70 Permit and 40 CFR Part 64, **no later than** 60 days after achieving maximum production rate, but no later than 180 days after initial start-up of the Green Ball Dryers, the Permittee shall perform filterable and condensible particulate matter (PM/PM<sub>10</sub>) compliance tests at the Green Ball Dryer Baghouses common duct/exhaust, **using 40 CFR Part 60, Appendix A, Method 5, Method 201 or 201A, Method 202 or methods as approved by the Commissioner.**
- (b) The filterable and condensible particulate matter (PM/PM<sub>10</sub>) tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration.

Permit Writer: Iryn Calilung

- (c) These tests shall be performed using methods as approved by the Commissioner.
- (d) Testing shall be conducted in accordance with Section C.11 - Performance Testing.

Stack 1001 Continuous Opacity Monitoring (COM)

- (f) Refer to Conditions D.1.8 and D.1.9 for the Stack 1001 Continuous Opacity Monitor (COM) compliance requirements.

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

D.2.9 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR Part 64]

- (a) Green Ball Dryers Baghouses  
Pursuant to 326 IAC 2-7-6(1), 326 IAC 2-7-5(1) and 40 CFR Part 64, the Permittee shall record the total static pressure drop across the Green Ball Dryers Baghouses, used in conjunction with the Green Ball Dryers, at least once per day when the process is in operation when venting to the atmosphere.
- (b) Product Separator/Dryer Baghouse  
Pursuant to 326 IAC 2-7-6(1) and 326 IAC 2-7-5(1), the Permittee shall record the total static pressure drop across the Product Separator/Dryer Baghouse, used in conjunction with the Product Separator/Dryer, at least once per day when the process is in operation when venting to the atmosphere.
- (c) Normal Range  
When for any one reading, the pressure drop across the baghouse is outside the normal range of 6.0 and 12.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports.  
  
A pressure reading that is outside the above mentioned range is not a deviation from this permit.
- (d) Response Steps  
Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) – Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.
- (d) Instrumentation  
The instrument used for determining the pressure shall comply with Section C.15 - Pressure Gauge and Other 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.2.10 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR Part 64]

- (a) An inspection shall be performed each calendar year of all bags controlling the:
  - (1) Green Ball Dryers, and
  - (2) Product Separator/Dryer,when venting to the atmosphere.

Permit Writer: Iryn Caillung

- (b) Inspections required by this condition shall not be performed in consecutive months.
- (c) All defective bags shall be replaced.

**D.2.11 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)] [40 CFR Part 64]**

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In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan (CRP) shall be initiated.

For any failure with corresponding response steps and timetable not described in the Compliance Response Plan (CRP), response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.

Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

If operations continue after bag failure is observed and it will be 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.

- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B.19 - Emergency Provisions).

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

**D.2.12 Record Keeping Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

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- (a) The Permittee shall maintain records required under 326 IAC 3-5-6 at the source in a manner that they may be inspected by the IDEM, OAQ, or the US EPA, if so requested or required.
- (b) The Permittee shall maintain the following records, and make such records available upon request to IDEM, OAQ, and the US EPA:
  - (1) Records of the dates when preheated air and natural gas is used by the Green Ball Dryers.

Permit Writer: Iryn Caillung

- (2) Records of the once per **day** readings of the baghouses' total static pressure drop during normal operation when venting to the atmosphere.
- (3) Records of the results of the baghouse inspections.
- (c) Refer to Condition D.1.12(c) for the Stack 1001 Continuous Opacity Monitor (COM) record keeping requirements.
- (d) The Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan (PMP) and make such records available upon request to IDEM, OAQ, and the US EPA.
- (e) Records necessary to demonstrate compliance shall be available **no later than** 30 days of the end of each compliance period.
- (f) All records shall be maintained in accordance with **Section C.21** - General Record Keeping Requirements of this permit.

D.2.13 Reporting Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- (a) The Permittee shall maintain and submit with the Affidavit of Construction (Section B.6), the final design specifications and vendor guarantees of the Green Ball Dryers and Product Separator Dryer.
- (b) Refer to Conditions D.1.13(b), D.1.13(c)(2) and D.1.13(d) for the Stack 1001 Continuous Opacity Monitor (COM) reporting requirements.
- (c) These reports shall be submitted no later than thirty (30) calendar days following the end of each calendar quarter and in accordance with Section C.22 - General Reporting Requirements of this permit.
- (d) These reports shall be submitted in accordance with Section C.22 - General Reporting Requirements of this permit.
- (e) These reports do require the certification by the responsible official, as defined by 326 IAC 2-7-1(34).

Permit Writer: Iryn Calilung

### SECTION D.3

### FACILITY OPERATION CONDITIONS

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

#### Stack 1002

- (1) One (1) Coal #1 Pulverizer/Dryer, nominally rated at 33 tons per hour, and 36.0 million (MM) Btu per hour.

The particulate matter emissions from the Coal #1 Pulverizer/Dryer are controlled by a baghouse, identified as Coal #1 Pulverizer/Dryer Baghouse.

- (2) One (1) Coal #2 Pulverizer/Dryer, nominally rated at 9 tons per hour, and 9.23 MMBtu per hour.

The particulate matter emissions from the Coal #2 Pulverizer/Dryer are controlled by a baghouse, identified as Coal #2 Pulverizer/Dryer Baghouse.

- (3) Flux Pulverizer(s)/Dryer(s), nominally rated at a total of 13 tons per hour and 14.58 MMBtu per hour.

Due to design uncertainty at this time of the review, the numbers of flux pulverizers/dryers and associated pieces of control equipment are permitted to change, however, the total heat input and process capacity will remain the same.

The particulate matter emissions from the Flux Pulverizer(s)/Dryer(s) are controlled by baghouse(s), identified as Flux Pulverizer(s)/Dryer(s) Baghouse(s).

These dryers use natural gas and are equipped with ~~L~~ low NO<sub>x</sub> burners.

The controlled emissions from the:

- Coal #1 Pulverizer/Dryer,
  - Coal #2 Pulverizer/Dryer, and
  - Flux Pulverizer(s)/Dryer(s)
- exhaust through a stack identified as Stack 1002.

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

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

##### D.3.1 Coal #1 Pulverizer/Dryer PSD BACT Limits [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards.

If the stack test required under Condition D.3.9 demonstrates that these emission limits are less stringent than what is achieved in practice, the Department may, at its discretion, use the authority under IC 13-15-7-2 and 326 IAC 2-2 to reopen and revise the emission limit(s) to more closely reflect the actual stack test results.

Permit Writer: Iryn Caillung

Because a best available control technology (BACT) level has not previously been established for an iron nugget production plant, if the stack test required under Condition D.3.9 demonstrates that the emission limit initially established in this permit is not achievable in practice, the Permittee may submit to the Department an application for a revision to the permit to reflect the emission level achieved in the stack test. The Permittee has the burden of demonstrating that it took all steps necessary to ensure that the emissions levels achieved in the stack test were the lowest achievable.

Any revisions of the emissions limits made as the result of this provision shall be subject to the best available control technology (BACT) review and air quality analysis, specified in 326 IAC 2-2.

The Department will provide an opportunity for public notice and comment under 326 IAC 2-7-10.5(f)(1) prior to finalizing any permit modification. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to the permit modification.

This provision does not have any impact on current or future enforcement actions.

- (a) The Coal #1 Pulverizer/Dryer shall use natural gas as fuel with propane as backup fuel.
- (b) The filterable particulate matter (PM/PM<sub>10</sub>) emissions from the Coal #1 Pulverizer/Dryer shall be captured and controlled by a baghouse (identified as Coal #1 Pulverizer/Dryer Baghouse).
- (c) The filterable particulate matter (PM) emissions exhausting through the Coal #1 Pulverizer/Dryer Baghouse shall not exceed 0.01 grains per dry standard cubic foot of exhaust air and 6.64 pounds per hour, based on a 3-hour block average.
- (d) The filterable and condensable particulate matter (PM/PM<sub>10</sub>) emissions exhausting through the Coal #1 Pulverizer/Dryer Baghouse shall not exceed 0.015 grains per dry standard cubic foot of exhaust air and 9.96 pounds per hour, based on a 3-hour block average.
- (e) Low NO<sub>x</sub> burners shall be installed and utilized to reduce the NO<sub>x</sub> emissions from the Coal #1 Pulverizer/Dryer.
- (f) The NO<sub>x</sub> emissions from the Coal #1 Pulverizer/Dryer shall not exceed 0.053 pounds per ton and 1.75 pounds per hour, based on a 3-hour block average.
- (g) The CO emissions from the Coal #1 Pulverizer/Dryer shall not exceed 0.090 pounds per ton and 2.97 pounds per hour, based on a 3-hour block average.
- (h) The VOC emissions from the Coal #1 Pulverizer/Dryer shall not exceed 0.20 pounds per hour, based on a 3-hour block average.
- (i) The SO<sub>2</sub> emissions from the Coal #1 Pulverizer/Dryer shall not exceed 0.03 pounds per hour, based on a 3-hour block average.

Permit Writer: Iryn Calilung

### D.3.2 Coal #2 Pulverizer/Dryer PSD BACT Limits [326 IAC 2-2]

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Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards.

If the stack test required under Condition D.3.9 demonstrates that these emission limits are less stringent than what is achieved in practice, the Department may, at its discretion, use the authority under IC 13-15-7-2 and 326 IAC 2-2 to reopen and revise the emission limit(s) to more closely reflect the actual stack test results.

Because a best available control technology (BACT) level has not previously been established for an iron nugget production plant, if the stack test required under Condition D.3.9 demonstrates that the emission limit initially established in this permit is not achievable in practice, the Permittee may submit to the Department an application for a revision to the permit to reflect the emission level achieved in the stack test. The Permittee has the burden of demonstrating that it took all steps necessary to ensure that the emissions levels achieved in the stack test were the lowest achievable.

Any revisions of the emissions limits made as the result of this provision shall be subject to the best available control technology (BACT) review and air quality analysis, specified in 326 IAC 2-2.

The Department will provide an opportunity for public notice and comment under 326 IAC 2-7-10.5(f)(1) prior to finalizing any permit modification. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to the permit modification.

This provision does not have any impact on current or future enforcement actions.

- (a) The Coal #2 Pulverizer/Dryer shall use natural gas as fuel with propane as backup fuel.
- (b) The filterable particulate matter (PM/PM<sub>10</sub>) emissions from the Coal #2 Pulverizer/Dryer shall be captured and controlled by a baghouse (identified as Coal #2 Pulverizer/Dryer Baghouse).
- (c) The filterable particulate matter (PM) emissions exhausting through the Coal #2 Pulverizer/Dryer Baghouse shall not exceed 0.01 grains per dry standard cubic foot of exhaust air and 1.45 pounds per hour, based on a 3-hour block average.
- (d) The filterable and condensable particulate matter (PM/PM<sub>10</sub>) emissions exhausting through the Coal #2 Pulverizer/Dryer Baghouse shall not exceed 0.015 grains per dry standard cubic foot of exhaust air and 2.17 pounds per hour, based on a 3-hour block average.
- (e) Low NO<sub>x</sub> burners shall be installed and utilized to reduce the NO<sub>x</sub> emissions from the Coal #2 Pulverizer/Dryer.
- (f) The NO<sub>x</sub> emissions from the Coal #2 Pulverizer/Dryer shall not exceed 0.051 pounds per ton and 0.46 pounds per hour, based on a 3-hour block average.
- (g) The CO emissions from the Coal #2 Pulverizer/Dryer shall not exceed 0.086 pounds per ton and 0.774 pounds per hour, based on a 3-hour block average.
- (h) The VOC emissions from the Coal #2 Pulverizer/Dryer shall not exceed 0.054 pounds per hour, based on a 3-hour block average.



Permit Writer: Iryn Calilung

- (i) The SO<sub>2</sub> emissions from the Coal #2 Pulverizer/Dryer shall not exceed 0.01 pounds per hour, based on a 3-hour block average.

#### D.3.3 Flux Pulverizer(s)/Dryer(s) PSD BACT Limits [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards.

If the stack test required under Condition D.3.9 demonstrates that these emission limits are less stringent than what is achieved in practice, the Department may, at its discretion, use the authority under IC 13-15-7-2 and 326 IAC 2-2 to reopen and revise the emission limit(s) to more closely reflect the actual stack test results.

Because a best available control technology (BACT) level has not previously been established for an iron nugget production plant, if the stack test required under Condition D.3.9 demonstrates that the emission limit initially established in this permit is not achievable in practice, the Permittee may submit to the Department an application for a revision to the permit to reflect the emission level achieved in the stack test. The Permittee has the burden of demonstrating that it took all steps necessary to ensure that the emissions levels achieved in the stack test were the lowest achievable.

Any revisions of the emissions limits made as the result of this provision shall be subject to the best available control technology (BACT) review and air quality analysis, specified in 326 IAC 2-2.

The Department will provide an opportunity for public notice and comment under 326 IAC 2-7-10.5(f)(1) prior to finalizing any permit modification. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to the permit modification.

This provision does not have any impact on current or future enforcement actions.

- (a) The Flux Pulverizer(s)/Dryer(s) shall use natural gas as fuel with propane as backup fuel.
- (b) The filterable particulate matter (PM/PM<sub>10</sub>) emissions from the Flux Pulverizer(s)/Dryer(s) shall be captured and controlled by baghouse(s) (identified as Flux Pulverizer(s)/Dryer(s) Baghouse(s)).
- (c) The total filterable and condensable particulate matter (PM/PM<sub>10</sub>) emissions exhausting through the Flux Pulverizer(s)/Dryer(s) Baghouse(s) shall not exceed 0.015 grains per dry standard cubic foot of exhaust air and 4.06 pounds per hour, based on a 3-hour block average.
- (d) Low NO<sub>x</sub> burners shall be installed and utilized to reduce the NO<sub>x</sub> emissions from the Flux Pulverizer(s)/Dryer(s).
- (e) The NO<sub>x</sub> emissions from the Flux Pulverizer(s)/Dryer(s) shall not exceed 0.054 pounds per ton and 0.702 pounds per hour, based on a 3-hour block average.
- (f) The CO emissions from the Flux Pulverizer(s)/Dryer(s) shall not exceed 0.091 pounds per ton and 1.18 pounds per hour, based on a 3-hour block average.

Permit Writer: Iryn Calilung

- (g) The VOC emissions from the Flux Pulverizer(s)/Dryer(s) shall not exceed 0.08 pounds per hour, based on a 3-hour block average.
- (h) The SO<sub>2</sub> emissions from the Flux Pulverizer(s)/Dryer(s) shall not exceed 0.013 pounds per hour, based on a 3-hour block average.

#### D.3.4 Stack 1002 Opacity PSD BACT Limit [326 IAC 2-2]

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Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the visible emissions from Stack 1002 shall not exceed 3% opacity, based on a 6-minute average.

#### D.3.5 Clean Units [326 IAC 2-2.2]

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- (a) Pursuant to 326 IAC 2-2.2 (Clean Unit):
  - (1) The Coal #1 Pulverizer/Dryer is classified as Clean Unit for:
    - filterable particulate matter (PM),
    - filterable and condensible particulate matter (PM/PM<sub>10</sub>), and
    - NO<sub>x</sub>.
  - (2) The Coal #2 Pulverizer/Dryer is classified as Clean Unit for:
    - filterable particulate matter (PM),
    - filterable and condensible particulate matter (PM/PM<sub>10</sub>), and
    - NO<sub>x</sub>.
  - (3) The Flux Pulverizer(s)/Dryer(s) are classified as Clean Unit(s) for:
    - filterable particulate matter (PM),
    - filterable and condensible particulate matter (PM/PM<sub>10</sub>), and
    - NO<sub>x</sub>.
- (b) The Clean Unit designations for these pulverizers/dryers are in effect for ten (10) years from their initial start-ups.
- (c) In order to maintain the clean unit designations for the:
  - (1) Coal #1 Pulverizer/Dryer:  
The Permittee shall comply with the Coal #1 Pulverizer/Dryer's filterable particulate matter (PM), filterable and condensible particulate matter (PM/PM<sub>10</sub>), NO<sub>x</sub> and Opacity PSD BACT limits.
  - (2) Coal #2 Pulverizer/Dryer:  
The Permittee shall comply with Coal #2 Pulverizer/Dryer's filterable particulate matter (PM), filterable and condensible particulate matter (PM/PM<sub>10</sub>), NO<sub>x</sub> and Opacity PSD BACT limits.
  - (3) Flux Pulverizer(s)/Dryer(s):  
The Permittee shall comply with Flux Pulverizer/Dryer's filterable particulate matter (PM), filterable and condensible particulate matter (PM/PM<sub>10</sub>), NO<sub>x</sub> and Opacity PSD BACT limits.

Permit Writer: Iryn Calilung

D.3.6 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]  
[40 CFR Part 60, Subpart Y]

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- (a) The provisions of 40 CFR Part 60, Subpart A (General Provisions), which are incorporated by reference in 326 IAC 12-1, apply to the Coal #1 Dryer and Coal #2 Dryer, except when otherwise specified in 40 CFR Part 60, Subpart Y (Standards of Performance for Coal Preparation Plants).
- (b) Pursuant 40 CFR Part 60.252(a)(1), the filterable particulate emissions from the Coal #1 Dryer and Coal #2 Dryer shall not exceed 0.031 grains per dry standard cubic foot of exhaust air.
- (c) Pursuant 40 CFR Part 60.252(a)(2), the visible emissions from the Coal #1 Dryer and Coal #2 Dryer shall not exceed 20% opacity.

D.3.7 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]

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A Preventive Maintenance Plan (PMP), in accordance with Section B.18 - Preventive Maintenance Plan (PMP), of this permit, is required for these pulverizers/dryers and their emission control devices.

### Compliance Determination Requirements

D.3.8 Operation of Add-on Control Devices Exhausting Through Stack 1002 [326 IAC 2-2]

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Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD):

- (a) The Coal #1 Pulverizer/Dryer Baghouse for particulate control shall be in operation and control the emissions at all times from the Coal #1 Pulverizer/Dryer when the Coal #1 Pulverizer/Dryer is in operation.
- (b) The Coal #2 Pulverizer/Dryer Baghouse for particulate control shall be in operation and control the emissions at all times from the Coal #2 Pulverizer/Dryer when the Coal #2 Pulverizer/Dryer is in operation.
- (c) The Flux Pulverizer(s)/Dryer(s) Baghouses for particulate control shall be in operation and control the emissions at all times from the Flux Pulverizer(s)/Dryer(s) when the Flux Pulverizer(s)/Dryer(s) are in operation.

D.3.9 Coal #1 Pulverizer/Dryer Baghouse and Coal #2 Pulverizer/Dryer Baghouse  
Testing Requirements [326 IAC 2-7-6(1) and (6)] [326 IAC 2-2] [40 CFR Part 60 Subpart Y]

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- (a) Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD) and 40 CFR Part 60, Subpart Y, **no later than** 60 days after achieving maximum production rate, but no later than 180 days after initial start-up of the:
  - Coal #1 Pulverizer/Dryer, and
  - Coal #2 Pulverizer/Dryer,

the Permittee shall perform filterable particulate matter (PM) and filterable and condensible particulate matter (PM/PM<sub>10</sub>) compliance tests at the:

- Coal #1 Pulverizer/Dryer Baghouse exhaust, and
- Coal #2 Pulverizer/Dryer Baghouse exhaust

using 40 CFR Part 60, Appendix A, Method 5, Method 201 or 201A, Method 202 or methods as approved by the Commissioner.

Permit Writer: Iryn Calilung

- (b) The filterable particulate matter (PM) and filterable and condensible particulate matter (PM/PM<sub>10</sub>) tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration.
- (c) These tests shall be performed using methods as approved by the Commissioner.
- (d) Testing shall be conducted in accordance with Section C.11 - Performance Testing.

D.3.10 Coal #1 Pulverizer/Dryer and Coal #2 Pulverizer/Dryer Opacity Testing Requirement  
[40 CFR Part 60 Subpart Y]

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Pursuant to 40 CFR Part 60, Subpart Y, the Permittee shall perform an initial compliance test for opacity on the Coal #1 Pulverizer/Dryer and Coal #2 Pulverizer/Dryer exhaust stack **no later than** 60 days after achieving maximum capacity, but no later than 180 days after initial start up, utilizing 40 CFR Part 60, Appendix A, Method 9.

Testing shall be conducted in accordance with Section C.11 - Performance Testing.

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

D.3.11 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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(a) Visible emission notations of **Stack 1002, consisting of the:**

- (1) Coal #1 Pulverizer/Dryer Baghouse,
- (2) Coal #2 Pulverizer/Dryer Baghouse,
- (3) Flux Pulverizer(s)/Dryer(s) Baghouse(s),

shall be performed once per shift during normal daylight operations when exhausting to the atmosphere.

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) The Compliance Response Plan (CRP) for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

Permit Writer: Iryn Caillung

#### D.3.12 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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The Permittee shall record the total static pressure drop across the:

- (a) Coal #1 Pulverizer/Dryer Baghouse, used in conjunction with the Coal #1 Pulverizer/Dryer;
- (b) Coal #2 Pulverizer/Dryer Baghouse, used in conjunction with the Coal #2 Pulverizer/Dryer;
- (c) Flux Pulverizer(s)/Dryer(s) Baghouse(s), used in conjunction with the Flux Pulverizer(s)/Dryer(s);

at least once per shift when the process is in operation when venting to the atmosphere.

When for any one reading, the pressure drop across the baghouse is outside the normal range of 6.0 and 12.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C.18- Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports.

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.18 - Compliance Response Plan (CRP) – Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C.15 - Pressure Gauge and Other 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.3.13 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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- (a) An inspection shall be performed each calendar quarter of all bags controlling the:
  - (1) Coal #1 Pulverizer/Dryer,
  - (2) Coal #2 Pulverizer/Dryer, and
  - (3) Flux Pulverizer(s)/Dryer(s),when venting to the atmosphere.
- (b) Inspections required by this condition shall not be performed in consecutive months.
- (c) All defective bags shall be repaired or replaced.

#### D.3.14 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

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In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan (CRP) shall be initiated.

For any failure with corresponding response steps and timetable not described in the Compliance Response Plan (CRP), response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.

Permit Writer: Iryn Calilung

Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

If operations continue after bag failure is observed and it will be 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.

- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B.19 - Emergency Provisions).

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

#### **D.3.15 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

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- (a) The Permittee shall maintain records required under 326 IAC 3-5-6 at the source in a manner that they may be inspected by the IDEM, OAQ, or the US EPA, if so requested or required.
- (b) The Permittee shall maintain the following records, and make such records available upon request to IDEM, OAQ, and the US EPA:
- (1) Records of the once per shift visible emission notations.
  - (2) Records of the once per shift readings of the baghouses' total static pressure drop during normal operation when venting to the atmosphere.
  - (3) Records of the results of the baghouse inspections.
- (c) The Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan (PMP) and make such records available upon request to IDEM, OAQ, and the US EPA.
- (d) Records necessary to demonstrate compliance shall be available **no later than** 30 days of the end of each compliance period.
- (e) All records shall be maintained in accordance with Section C.21 - General Record Keeping Requirements of this permit.

Permit Writer: Iryn Calilung

D.3.16 Reporting Requirements [\[326 IAC 2-2\]](#) [\[326 IAC 2-7-5\(3\)\]](#) [\[326 IAC 2-7-19\]](#)

The Permittee shall submit with the Affidavit of Construction (Section [B.6](#)), the final design specifications and vendor guarantees of the Coal #1 Pulverizer/Dryer, Coal #2 Pulverizer/Dryer, and Flux Pulverizer(s)/Dryer(s).

These reports shall be submitted in accordance with Section [C.22](#) - General Reporting Requirements of this permit and do require the certification by the responsible official, as defined by [326 IAC 2-7-1\(34\)](#).

Permit Writer: Iryn Caillung

## SECTION D.4

## FACILITY OPERATION CONDITIONS

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

### Stack 1003

One (1) Ore Dryer, nominally rated at 125 tons per hour and 25 million (MM) Btu per hour.

The particulate matter emissions from the Ore Dryer are controlled by a baghouse, identified as Ore Dryer Baghouse and exhaust through a stack, identified as Stack 1003.

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

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

#### D.4.1 Ore Dryer PSD BACT Limits [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards.

If the stack test required under Condition D.4.5 demonstrates that these emission limits are less stringent than what is achieved in practice, the Department may, at its discretion, use the authority under IC 13-15-7-2 and 326 IAC 2-2 to reopen and revise the emission limit(s) to more closely reflect the actual stack test results.

Because a best available control technology (BACT) level has not previously been established for an iron nugget production plant, if the stack test required under Condition D.4.5 demonstrates that the emission limit initially established in this permit is not achievable in practice, the Permittee may submit to the Department an application for a revision to the permit to reflect the emission level achieved in the stack test. The Permittee has the burden of demonstrating that it took all steps necessary to ensure that the emissions levels achieved in the stack test were the lowest achievable.

Any revisions of the emissions limits made as the result of this provision shall be subject to the best available control technology (BACT) review and air quality analysis, specified in 326 IAC 2-2.

The Department will provide an opportunity for public notice and comment under 326 IAC 2-7-10.5(f)(1) prior to finalizing any permit modification. IC 13-15-7-3 (Revocation or Modification of a Permit: Appeal to Board) shall apply to the permit modification.

This provision does not have any impact on current or future enforcement actions.

- (a) The Ore Dryer shall use natural gas as fuel with propane as backup fuel.
- (b) The filterable particulate matter (PM/PM<sub>10</sub>) emissions from the Ore Dryer shall be captured and controlled by a baghouse (identified as Ore Dryer Baghouse).
- (c) The filterable particulate matter (PM) emissions exhausting through the Ore Dryer Baghouse shall not exceed 0.01 grains per dry standard cubic foot of exhaust air and 4.29 pounds per hour, based on a 3-hour block average.



Permit Writer: Iryn Calilung

- (d) The filterable and condensable particulate matter (PM/PM<sub>10</sub>) emissions exhausting through the Ore Dryer Baghouse shall not exceed 0.015 grains per dry standard cubic foot of exhaust air and 6.43 pounds per hour, based on a 3-hour block average.
- (e) Low NO<sub>x</sub> burners shall be installed and utilized to reduce the NO<sub>x</sub> emissions from the Ore Dryer.
- (f) The NO<sub>x</sub> emissions from the Ore Dryer shall not exceed 0.010 pounds per ton and 1.25 pounds per hour, based on a 3-hour block average.
- (g) The CO emissions from the Ore Dryer shall not exceed 0.016 pounds per ton and 2.0 pounds per hour, based on a 3-hour block average.
- (h) The VOC emissions from the Ore Dryer shall not exceed 0.13 pounds per hour, based on a 3-hour block average.
- (i) The SO<sub>2</sub> emissions from the Ore Dryer shall not exceed 0.013 pounds per hour, based on a 3-hour block average.
- (j) The visible emissions from Stack 1003 shall not exceed 3% opacity, based on a 6-minute average.

#### D.4.2 Ore Dryer Clean Unit [326 IAC 2-2.2]

- (a) Pursuant to 326 IAC 2-2.2 (Clean Unit), the Ore Dryer is classified as Clean Unit for:
  - filterable particulate matter (PM),
  - filterable and condensable particulate matter (PM/PM<sub>10</sub>), and
  - NO<sub>x</sub>.
- (b) The Clean Unit designation for the Ore Dryer is in effect for ten (10) years from its initial start up.
- (c) In order to maintain the clean unit designations for the Ore Dryer, the Permittee shall comply with the Ore Dryer's filterable particulate matter (PM), filterable and condensable particulate matter (PM/PM<sub>10</sub>), NO<sub>x</sub>, and Opacity PSD BACT limits.

#### D.4.3 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP), in accordance with Section B.18 - Preventive Maintenance Plan (PMP), of this permit, is required for the Ore Dryer and its emission control devices.

### **Compliance Determination Requirements**

#### D.4.4 Operation of Add-on Control Device Exhausting Through Stack 1003 [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Ore Dryer Baghouse for particulate control shall be in operation and control the emissions at all times from the Ore Dryer when the Ore Dryer is in operation.

#### D.4.5 Ore Dryer Baghouse Testing Requirements [326 IAC 2-7-6(1) and (6)] [326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), no later than 60 days after achieving maximum production rate, but no later than 180 days after initial start-up of the Ore Dryer, the Permittee shall perform:

Permit Writer: Iryn Calilung

- (1) Filterable particulate matter (PM) compliance tests, and
  - (2) Filterable and condensible (PM/PM<sub>10</sub>) particulate matter compliance tests
- at the Ore Dryer Baghouse stack (Stack 1003), using 40 CFR Part 60, Appendix A, Method 5, Method 201 or 201A, Method 202 or methods as approved by the Commissioner.
- (b) The particulate matter tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration.
  - (c) These tests shall be performed using methods as approved by the Commissioner.
  - (d) Testing shall be conducted in accordance with Section C.11 - Performance Testing.

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

##### **D.4.6 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

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- (a) Visible emission notations of the Ore Dryer Baghouse stack exhaust (Stack 1003) shall be performed once per shift during normal daylight operations when exhausting to the atmosphere.  
  
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) The Compliance Response Plan (CRP) for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

##### **D.4.7 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

The Permittee shall record the total static pressure drop across the Ore Dryer Baghouse, used in conjunction with the Ore Dryer, at least once per shift when the process is in operation when venting to the atmosphere.

When for any one reading, the pressure drop across the baghouse is outside the normal range of 6.0 and 12.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C.18- Compliance Response Plan

Permit Writer: Iryn Caillung

(CRP) - Preparation, Implementation, Records, and Reports.

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.18 - Compliance Response Plan (CRP) – Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C.15 - Pressure Gauge and Other 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.4.8 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) An inspection shall be performed each calendar quarter of all bags controlling the Ore Dryer when venting to the atmosphere.
- (b) Inspections required by this condition shall not be performed in consecutive months.
- (c) All defective bags shall be repaired or replaced.

D.4.9 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan (CRP) shall be initiated.

For any failure with corresponding response steps and timetable not described in the Compliance Response Plan (CRP), response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.

Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

If operations continue after bag failure is observed and it will be 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.

- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

Permit Writer: Iryn Calilung

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.19 - Emergency Provisions).

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

### **D.4.10 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

---

- (a) The Permittee shall maintain records required under 326 IAC 3-5-6 at the source in a manner that they may be inspected by the IDEM, OAQ, or the US EPA, if so requested or required.
- (b) The Permittee shall maintain the following records, and make such records available upon request to IDEM, OAQ, and the US EPA:
  - (1) Records of the once per shift visible emission notations.
  - (2) Records of the once per shift readings of the baghouses' total static pressure drop during normal operation when venting to the atmosphere.
  - (3) Records of the results of the baghouse inspections.
- (c) The Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan (PMP) and make such records available upon request to IDEM, OAQ, and the US EPA.
- (d) Records necessary to demonstrate compliance shall be available **no later than** 30 days of the end of each compliance period.
- (e) All records shall be maintained in accordance with Section C.21 - General Record Keeping Requirements of this permit.

### **D.4.11 Reporting Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

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The Permittee shall submit with the Affidavit of Construction (Section B.6), the final design specifications and vendor guarantees of the Ore Dryer.

These reports shall be submitted in accordance with Section C.22 - General Reporting Requirements of this permit and do require the certification by the responsible official, as defined by 326 IAC 2-7-1(34).

Permit Writer: Iryn Caillung

## SECTION D.5

## FACILITY OPERATION CONDITIONS

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

### Stack 1004

Coal Railcar Unloading, nominally rated at 165 tons per hour, with a baghouse, identified as Coal Railcar Unloading Baghouse, for particulate control and exhaust through a stack, identified as Stack 1004.

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

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

#### D.5.1 Railcar Unloading PSD BACT Limits [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards:

- (a) The filterable particulate matter (PM) emissions from the Coal Railcar Unloading shall be captured and controlled by a baghouse (identified as Railcar Unloading Baghouse).
- (b) The filterable particulate matter (PM) emissions exhausting through the Coal Railcar Unloading Baghouse shall not exceed 0.0052 grains per dry standard cubic foot of exhaust air.
- (c) The visible emissions from Stack 1004 shall not exceed 3% opacity, based on a 6-minute average.
- (d) The Coal Railcar Unloading operation shall be conducted in a shed. The air pressure or water spray system in the shed shall be maintained at a level to reduce particulate matter emissions escaping through the doors while the unloading process is taking place.

#### D.5.2 Railcar Unloading Clean Unit [326 IAC 2-2.2]

- (a) Pursuant to 326 IAC 2-2.2 (Clean Unit), the Coal Railcar Unloading is classified as Clean Unit for filterable particulate matter (PM).
- (b) The Clean Unit designation for the Railcar Unloading is in effect for ten (10) years from its initial start up.
- (c) In order to maintain the clean unit designations for the Coal Railcar Unloading, the Permittee shall comply with the Railcar Unloading's filterable particulate matter (PM) and opacity PSD BACT limits.

#### D.5.3 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP), in accordance with Section B.18 - Preventive Maintenance Plan (PMP), of this permit, is required for the Coal Railcar Unloading Baghouse.

Permit Writer: Iryn Calilung

## Compliance Determination Requirements

### D.5.4 Operation of Add-on Control Device Exhausting Through Stack 1004 [326 IAC 2-2]

---

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Coal Railcar Unloading Baghouse for particulate control shall be in operation and control the emissions at all times from the Railcar Unloading when the Railcar Unloading is in operation.

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

### D.5.5 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

---

- (a) Visible emission notations of the Coal Railcar Unloading Baghouse stack (Stack 1004) exhaust shall be performed once per shift during normal daylight operations when the railcar unloading is in operation and exhausting to the atmosphere.
- 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) The Compliance Response Plan (CRP) for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

### D.5.6 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

---

The Permittee shall record the total static pressure drop across the Coal Railcar Unloading Baghouse, used in conjunction with the Railcar Unloading, at least once per shift when the process is in operation when venting to the atmosphere.

When for any one reading, the pressure drop across the baghouse is outside the normal range of 6.0 and 12.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports.

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.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

Permit Writer: Iryn Caillung

The instrument used for determining the pressure shall comply with Section C.15 - Pressure Gauge and Other 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.5.7 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- (a) An inspection shall be performed **annually** of all bags controlling the **Coal** Railcar Unloading when venting to the atmosphere.
- (b) Inspections required by this condition shall not be performed in consecutive months.
- (c) All defective bags shall be **repaired or** replaced.

D.5.8 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan (CRP) shall be initiated.

For any failure with corresponding response steps and timetable not described in the Compliance Response Plan (CRP), response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.

Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

If operations continue after bag failure is observed and it will be 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.

- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B .19 - Emergency Provisions).

Permit Writer: Iryn Calilung

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

### **D.5.9 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

---

- (a) The Permittee shall maintain records required under 326 IAC 3-5-6 at the source in a manner that they may be inspected by the IDEM, OAQ, or the US EPA, if so requested or required.
- (b) The Permittee shall maintain the following records, and make such records available upon request to IDEM, OAQ, and the US EPA:
  - (1) Records of the once per shift visible emission notations.
  - (2) Records of the once per shift readings of the baghouses' total static pressure drop during normal operation when venting to the atmosphere.
  - (3) Records of the results of the baghouse inspections.
- (c) The Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan (PMP) and make such records available upon request to IDEM, OAQ, and the US EPA.
- (d) Records necessary to demonstrate compliance shall be available **not later than** 30 days of the end of each compliance period.
- (e) All records shall be maintained in accordance with Section **C.21** - General Record Keeping Requirements of this permit.



Permit Writer: Iryn Calilung

## SECTION D.6

## FACILITY OPERATION CONDITIONS

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

### Fugitive Dust Collection Systems

- (1) Fugitive Dust Collection #1, with baghouse(s), identified as Fugitive Baghouse #1, for particulate control and exhaust through a stack, identified as Stack 1001.
- (2) Fugitive Dust Collection #2, with baghouse(s), identified as Fugitive Baghouse #2, for particulate control and exhaust through a stack, identified as Stack 1005.

Due to design uncertainty at this time of the review, the number of fugitive dust collection baghouses is permitted to change, however, the total dust collection volume and emissions will remain the same.

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

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

#### D.6.1 Fugitive Dust Collection Systems PSD BACT Limits [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control Technology (BACT) standards:

##### Fugitive Dust Collection #1- - Stack 1001

- (a) The filterable particulate matter (PM) emissions from the Fugitive Dust Collection #1 shall be captured and controlled by baghouse(s) (identified as Fugitive Baghouse #1).
- (b) The filterable particulate matter (PM) emissions exhausting through the Fugitive Baghouse #1 shall not exceed 0.0052 grains per dry standard cubic foot of exhaust air.
- (c) The visible emissions from Stack 1001 shall not exceed 3% opacity, based on a 6-minute average.

##### Fugitive Dust Collection #2 - - Stack 1005

- (d) The filterable particulate matter (PM) emissions from the Fugitive Dust Collection #2 shall be captured and controlled by baghouse(s) (identified as Fugitive Baghouse #2).
- (e) The filterable particulate matter (PM) emissions exhausting through the Fugitive Baghouse #2 shall not exceed 0.0052 grains per dry standard cubic foot of exhaust air.
- (f) The visible emissions from Stack 1005 shall not exceed 3% opacity, based on a 6-minute average.

Permit Writer: Iryn Calilung

**D.6.2 Preventive Maintenance Plan (PMP) [326 IAC 2-7-5(13)] [326 IAC 1-6-3]**

---

A Preventive Maintenance Plan (PMP), in accordance with Section B.18 - Preventive Maintenance Plan (PMP), of this permit, is required for the Fugitive Baghouse #1 and Fugitive Baghouse #2.

**Compliance Determination Requirements**

**D.6.3 Operation of Add-on Control Devices [326 IAC 2-2]**

---

- (a) Fugitive Baghouse #1 - - Stack 1001  
Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Fugitive Baghouse #1 for particulate control shall be in operation and control the emissions at all times from the Fugitive Dust Collection #1 when fugitive emissions are emitted.
- (b) Fugitive Baghouse #2 - - Stack 1005  
Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Fugitive Baghouse #2 for particulate control shall be in operation and control the emissions at all times from the Fugitive Dust Collection #2 when fugitive emissions are emitted.

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

**D.6.4 Visible Emissions Notations [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

- (a) Visible emission notations of the Fugitive Baghouse #2 stack (Stack 1005) exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere.  
  
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) The Compliance Response Plan (CRP) for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

**D.6.5 Baghouse Parametric Monitoring [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

---

The Permittee shall record the total static pressure drop across the:

- (a) Fugitive Baghouse #1, used in conjunction with the Fugitive Dust Collection #1;  
and
- (b) Fugitive Baghouse #2, used in conjunction with the Fugitive Dust Collection #2;

Permit Writer: Iryn Caillung

at least once per shift when the process is in operation when venting to the atmosphere.

When for any one reading, the pressure drop across the baghouse is outside the normal range of 6.0 and 12.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports.

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.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records and Reports shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C.15 - Pressure Gauge and Other 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.6.6 Baghouse Inspections [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

(a) An inspection shall be performed each calendar quarter of all bags controlling the:  
-- Fugitive Dust Collection #1, and  
-- Fugitive Dust Collection #2  
when venting to the atmosphere.

(b) Inspections required by this condition shall not be performed in consecutive months.

(c) All defective bags shall be repaired or replaced.

D.6.7 Broken or Failed Bag Detection [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan (CRP) shall be initiated.

For any failure with corresponding response steps and timetable not described in the Compliance Response Plan (CRP), response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion.

Failure to take response steps in accordance with Section C.18 - Compliance Response Plan (CRP) - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

If operations continue after bag failure is observed and it will be 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.

Permit Writer: Iryn Calilung

- (b) For single compartment baghouses, if failure is indicated by a significant drop in the baghouse's pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, dust traces or triboflows, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B.19 - Emergency Provisions).

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

#### **D.6.8 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

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- (a) The Permittee shall maintain records required under 326 IAC 3-5-6 at the source in a manner that they may be inspected by the IDEM, OAQ, or the US EPA, if so requested or required.
- (b) The Permittee shall maintain the following records, and make such records available upon request to IDEM, OAQ, and the US EPA:
- (1) Records of the once per shift visible emission notations.
  - (2) Records of the once per shift readings of the baghouses' total static pressure drop during normal operation when venting to the atmosphere.
  - (3) Records of the results of the baghouse inspections.
- (c) The Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan (PMP) and make such records available upon request to IDEM, OAQ, and the US EPA.
- (d) Records necessary to demonstrate compliance shall be available **no later than** 30 days of the end of each compliance period.
- (e) All records shall be maintained in accordance with Section C.21 - General Record Keeping Requirements of this permit.

Permit Writer: Iryn Caillung

**SECTION D.7**

**FACILITY OPERATION CONDITIONS**

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

**Material storage, handling, transfer, and conveying, each nominally rated at 200 tons per hour.**

Summary of Bin Vents and Corresponding Operations			
Bin Vent ID	Operation	Bin Vent ID	Operation
1006	Raw Ore Silo	1022	Flux Silo #3
1010	Raw Flux Silo	1023	Flux Silo #4
1011	Binder Silo	1024	Recycle Silo
1014	Raw Coal Silo	1025	Flux Silo #5
1015	Recycle Fines Silo	1027	EAF Dust Silo
1018	Raw Coal Silo	1037	Product Silo
1019	Pulverized Coal Silo	1038	Raw Flux Silo
1020	Pulverized Coal Silo	1040	Slag Separator Baghouse Silo
1021	Pulverized Coal Silo	Total	17

These silos are controlled by bin vent filters.

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

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

**D.7.1 Silos PSD BACT Limits [326 IAC 2-2]**

Pursuant to 326 IAC 2-2 (PSD), the Permittee shall comply with the following:

- (a) The filterable particulate matter (PM) emissions from each storage silo shall be each controlled by its bin vent filter at an outlet grain loading of 0.01 grains per dry standard cubic feet of exhaust air.
- (b) The visible emissions from each storage silo bin vent shall not exceed 3% opacity, based on a 6-minute average.

**D.7.2 Silos Clean Unit [326 IAC 2-2.2]**

- (a) Pursuant to 326 IAC 2-2.2 (Clean Unit), the storage silos are classified as Clean Units for filterable particulate matter (PM).
- (b) The Clean Unit designations for the storage silos are in effect for ten (10) years from their initial start ups.
- (c) In order to maintain the clean unit designations for the silos, the Permittee shall comply with the silos' filterable particulate matter (PM) and opacity PSD BACT limits.

Permit Writer: Iryn Calilung

**D.7.3 Preventive Maintenance Plan (PMP) [326 IAC 1-6-3] [326 IAC 1-6-3]**

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A Preventive Maintenance Plan (PMP), in accordance with Section B.18 - Preventive Maintenance Plan (PMP), of this permit, is required for the bin vent filters.

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

**D.7.4 Particulate Matter (PM) [326 IAC 2-2 ]**

---

Pursuant to 326 IAC 2-2 (PSD), the bin vents filters for particulate control shall be in operation and control emissions at all times from the storage silos when the storage silos are in operation.

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

None

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

None

Permit Writer: Iryn Calilung

## SECTION D.8

## FACILITY OPERATION CONDITIONS

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

### Paved and Unpaved Roadways

Roadways used by the semi-tractor trailers, employee vehicles, and support vehicles are either paved or unpaved stone or gravel.

Fugitive dust emissions are controlled by the implementation of the Fugitive Dust Control Plan (FDCP).

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

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

#### D.8.1 Paved Roadways [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall pave roadways used by semi-tractor trailers, employee vehicles, and support vehicles within the plant property.

#### D.8.2 Opacity PSD BACT Limit [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the visible emissions from:

- (a) paved roadways,
- (b) unpaved roadways and
- (c) unpaved areas

shall not exceed 10% opacity, based on a 6-minute average.

#### D.8.3 Paved Roadways Clean Unit [326 IAC 2-2.2]

- (a) Pursuant to 326 IAC 2-2.2 (Clean Unit), the Paved Roadways are classified as Clean Units for filterable particulate matter (PM).
- (b) The Clean Unit designations for the Paved Roadways are in effect for ten (10) years from their respective initial start ups.
- (c) In order to maintain the clean unit designations for the Paved Roadways, the Permittee shall comply with the paved roadways filterable particulate matter (PM) and Opacity PSD BACT limits.

### Compliance Determination Requirements

#### D.8.4 Fugitive Dust Control Plan (FDCP) [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall maintain and implement its Fugitive Dust Control Plan (FDCP) (Section E of this permit).

Permit Writer: Iryn Calilung

**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**  
None

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

**D.8.5 Record Keeping Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

---

- (a) The Permittee shall maintain records of the activities required by the fugitive dust control plan (FDCP) and make such records available upon request to IDEM, OAQ and the US EPA.
- (b) Records necessary to demonstrate compliance shall be available **no later than** 30 days of the end of each compliance period.
- (c) All records shall be maintained in accordance with Section **C.21** - General Record Keeping Requirements of this permit.



Permit Writer: Iryn Calilung

## SECTION D.9

## FACILITY OPERATION CONDITIONS

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

### Insignificant Activities

- (a) Two (2) Cooling Towers:
  - (1) Identified as Cooling Tower 743, with nominal capacity of 23,450 gallons per minute and 0.005% drift rate.
  - (2) Identified as Cooling Tower 726, with nominal capacity of 10,350 gallons per minute and 0.005% drift rate.
- (b) Emergency Generator(s)

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

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

#### D.9.1 Cooling Towers PSD BACT Limits [326 IAC 2-2]

- (a) Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the visible emissions from each cooling tower shall not exceed 20% opacity, based on a 6-minute average.
- (b) Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the drift rate from each cooling tower shall not exceed 0.005%.

#### D.9.2 Emergency Generator(s) PSD BACT Limits [326 IAC 2-2]

Pursuant to 326 IAC 2-2 Prevention of Significant Deterioration (PSD), the Permittee shall comply with the following PSD Best Available Control technology (BACT) standards:

- (a) Each emergency generator shall provide back up power when electric power is interrupted or for periodic generator testing purposes.
- (b) Each emergency generator shall not operate more than 500 hours per 12-consecutive month period, with compliance determined at the end of each month.
- (c) Good combustion practices shall be performed.

### Compliance Determination Requirements

None

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

None

Permit Writer: Iryn Calilung

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

### **D.9.3 Record Keeping Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

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- (a) The Permittee shall maintain records of the hours of operation of each emergency generator(s) and make such records available upon request to IDEM, OAQ and the US EPA.
- (b) Records necessary to demonstrate compliance shall be available **no later than** 30 days of the end of each compliance period.
- (c) All records shall be maintained in accordance with Section **C.21** - General Record Keeping Requirements of this permit.

### **D.9.4 Reporting Requirements [326 IAC 2-2] [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

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The Permittee shall maintain and submit with the Affidavit of Construction (**Condition B.6**), the final design specifications and vendor guarantees of the cooling towers.

These reports shall be submitted in accordance with Section **C.22** - General Reporting Requirements of this permit and do require the certification by the responsible official, as defined by 326 IAC 2-7-1(34).

## **SECTION E FUGITIVE DUST CONTROL PLAN (FDCP)**

### **E.1 Introduction**

The following control plan, when implemented, is designed to reduce uncontrolled fugitive dust, based on a particulate matter mass emission basis from:

- (a) Paved roadways and parking lots -- down to 9.7 grams per square meter,
- (b) Unpaved areas -- 90 percent, and
- (c) Feedstock and product outdoor operations -- by 95 percent,

such that the silt loading limitation and visible emissions limitations specified in the permit are met.

The plan shall be implemented on a year-round basis until such time as another plan is approved or ordered by the Indiana Department of Environmental Management (IDEM).

### **E.2 Paved Roadways and Parking Lots**

Paved roads and parking lots shall be controlled by the use of a vehicular vacuum sweeper, wet sweeping, or water flushing and shall be performed **at least** every 14 days.

Upon request of the Assistant Commissioner, Auburn Nugget LLC shall sample and provide to IDEM surface material silt content and surface dust loadings in accordance with C. Cowherd, Jr., et al., Iron and Steel Plant Open Dust Source Fugitive Emission Evaluation, EPA-600/2-79-103, U.S. Environmental Protection Agency, Cincinnati, OH, May 1979.

IDEM will have the right to specify road segments to be sampled. Auburn Nugget shall provide supplemental cleaning of paved road sections found to exceed the controlled silt surface loading of 9.7 grams per square meter.

Cleaning of paved road segments and parking lots may be delayed by one day when:

- (a) 0.1 or more inches of rain has accumulated during the 24-hour period prior to the scheduled cleaning.
- (b) The road segment is closed or abandoned. Abandoned roads will be barricaded to prevent vehicle access.
- (c) It is raining at the time of the scheduled cleaning.
- (d) The ambient air temperature is below 32°F.

The above dust control measures shall be performed such that the visible emission limitations in the permit are met. Visible emissions shall be determined in accordance with the procedures specified in the permit.

Permit Writer: Iryn Calilung

### **E.3 Unpaved Areas within the Plant**

Unpaved areas traveled shall be treated with an IDEM-approved chemical dust suppressant at a rate necessary to meet compliance with the associated visible emissions limitations. Fugitive dust emissions shall be reduced by at least 90 percent instantaneous control on a particulate matter mass emission basis.

Treating of unpaved areas may be delayed by one (1) day when:

- (a) 0.1 or more inches of rain have accumulated during the 24-hour period prior to the scheduled treatment.
- (b) Unpaved areas are saturated with water such that chemical dust suppressants cannot be accepted by the surface.
- (c) Unpaved areas are frozen or covered by ice, snow, or standing water.
- (d) The area is closed or abandoned.
- (e) It is raining at the time of the scheduled treatment.
- (f) The ambient air temperature is below 32°F.

The above dust control measures shall be performed such that the visible emission limitations in the permit are met. Visible emissions shall be determined in accordance with the procedures specified in the permit.

### **E.4 Wind Erosion from Open Piles**

Piles shall be sprayed with water or chemical dust suppressant on an "as-needed" basis to eliminate wind erosion and not exceed the visible emission limitations in the permit.

The above dust control measures shall be performed such that the visible emission limitations in the permit are met. Visible emissions shall be determined in accordance with the procedures specified in the permit.

### **E.5 Product Handling and Processing**

Emissions from pile processing operations shall be controlled through the application of water or chemical dust suppressant on an as-needed basis and by limiting front-end loader batch drop height into trucks and hoppers to less than six feet.

Water application or chemical dust suppressant rate and frequency shall be sufficient to meet permit limitations.

Emissions from conveyor transfer points shall be controlled through the application of water or chemical dust suppressant.

Treating of pile processing operations and conveyor transfer points shall be delayed by one (1) day when:

Permit Writer: Iryn Calilung

- (a) 0.1 or more inches of rain has accumulated during the 24-hour period prior to the scheduled cleaning.
- (b) The pile or material is saturated with water such that chemical suppressants are ineffective.
- (c) The material is frozen or covered by ice, or snow.
- (d) The ambient air temperature is below 32°F.

#### **E.6 Vehicle Speed Control**

Posted speed limits on paved roads shall be 20 miles per hour.

Posted speed limits on unpaved areas shall be 10 miles per hour.

Upon violation, employees shall receive a written warning, followed by disciplinary action if a second violation occurs.

Visitors to the plant shall be denied access if repeated violations occur.

#### **E.7 Material Spill Control**

Incidents of material spillage on plant property that may create fugitive dust shall be properly cleaned up.

#### **E.8 Monitoring and Recording Keeping**

Records shall be kept of the vacuum sweeping, wet sweeping, or water flushing, spill control activities, and dust suppressant application frequency and amount. Also, records shall contain the amount of water or chemical dust suppressant used to control fugitive dust.

Records and support information required by this plan 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.

#### **E.9 Compliance Schedule**

This plan shall be fully implemented when construction is completed. Until that time, the plan shall be implemented within portions of the site where construction is considered complete. Where construction is incomplete, appropriate control measures shall be implemented. These activities shall be recorded.

Permit Writer: Iryn Calilung

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue, Indianapolis, IN 46204**

**PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Indiana Nugget, LLC  
Source Location: County Road 55 and 42, Butler, IN 46721  
Mailing Address: 4500 County Road 59, Butler, IN 46721

<p><b>This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this approval.</b></p> <p>Please check what document is being certified:</p>
<p><input type="checkbox"/> Test Result (specify)</p>
<p><input type="checkbox"/> Report (specify)</p>
<p><input type="checkbox"/> Notification (specify)</p>
<p><input type="checkbox"/> Affidavit (specify)</p>
<p><input type="checkbox"/> Other (specify)</p>

<p>I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.</p>
<p>Signature:</p>
<p>Printed Name:</p>
<p>Title/Position:</p>
<p>Date:</p>

Permit Writer: Iryn Calilung

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY, COMPLIANCE BRANCH  
100 North Senate Avenue, Indianapolis, IN 46204**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Indiana Nugget, LLC  
Source Location: County Road 55 and 42, Butler, IN 46721  
Mailing Address: 4500 County Road 59, Butler, IN 46721

This is an emergency as defined in 326 IAC 2-7-1(12)

The Permittee must notify the Office of Air Quality (OAQ), **no later than** four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and

The Permittee must submit notice in writing or by facsimile **no later than** two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.

Address: 100 North Senate Avenue, Indianapolis, Indiana 46204

This EMERGENCY OCCURRENCE REPORT consists of 2 pages.

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:

Date/Time Emergency started:

Date/Time Emergency was corrected:

Permit Writer: Iryn Calilung

<b>Page 2 of 2 of the EMERGENCY OCCURRENCE REPORT</b>	
Was the facility being properly operated at the time of the emergency?    Y    N	
Describe:	
Type of Pollutants Emitted: TSP, PM <sub>10</sub> , 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 <b>reduce</b> 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:
Telephone:

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is NOT required for this report.



Permit Writer: Iryn Calilung

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION  
100 North Senate Avenue, Indianapolis, IN 46204**

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

Source Name: Indiana Nugget, LLC  
Source Location: County Road 55 and 42, Butler, IN 46721  
Mailing Address: 4500 County Road 59, Butler, IN 46721

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

**This Quarterly Deviation And Compliance Monitoring Report consists of 2 pages.**

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".	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Permit Writer: Iryn Calilung

<b>Page 2 of 2 of Quarterly Deviation And Compliance Monitoring Report</b>	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By:
Title/Position:
Date:
Telephone:

Attach a signed certification to complete this report.