



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • Fax (317) 233-8647 • www.idem.IN.gov

Mike Braun
Governor

Clint Woods
Commissioner

NOTICE OF PUBLIC MEETING

Preliminary Findings Regarding a Part 70 Significant Modification

for U.S. Steel Corporation - Gary Works in Lake County

Significant Permit Modification No.: 089-48719-00121

The Indiana Department of Environmental Management (IDEM) has received an application from U.S. Steel Corporation - Gary Works, located at One North Broadway, Gary, Indiana 46402, for a Part 70 Significant Permit Modification. IDEM's Office of Air Quality (OAQ) issues renewals of this type of permit to regulate the operation of existing sources and modifications at existing sources that release air pollutants.

On July 18, 2025, the Office of Air Quality (OAQ) had a notice posted on IDEM's website (<https://www.in.gov/idem/public-notices/>) stating that the draft Part 70 Significant Permit Modification for U.S. Steel Corporation - Gary Works had been proposed for this operation and provided information on how the public could review the proposed permit and other documentation. Due to several comments received by IDEM from interested parties, a public meeting will be held on Wednesday September 3, 2025 to discuss air permitting for U.S. Steel Corporation - Gary Works.

A copy of the permit application and IDEM's preliminary findings have been sent to:

Gary Public Library and Cultural Center
220 West 5th Avenue
Gary, IN 46402

A copy of the preliminary findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

A copy of the application and preliminary findings is also available via IDEM's Virtual File Cabinet (VFC) located at <https://www.in.gov/idem/legal/public-records/virtual-file-cabinet/>. Once you have accessed VFC, you will then have the option to search for source related documents using a variety of criteria. To find documents related to this air permit, click on "Advanced Search", specify "OAQ" in the Program search field, specify the five-digit permit number "48719" in the Permit # search field, then click the Search button at the top or bottom of the webpage.

You are invited to attend a public meeting:

The Indiana Department of Environmental Management (IDEM) will hold a public meeting to discuss air permitting for U.S. Steel Corporation - Gary Works on:

Wednesday September 3, 2025 at 6:00 PM, Central Time
21st Century Charter School of Gary – Gymnasium
556 Washington St, Gary, Indiana 46402

What will happen at the meeting?

IDEM staff will describe the draft U.S. Steel Corporation - Gary Works air permit and answer questions from citizens in an informal setting. The public meeting will not include formal presentations, but will give the public an opportunity to submit written comments, ask questions, and discuss air pollution concerns with IDEM staff.

Written comments and supporting documentation can be presented at the public meeting, or if you do not plan to attend this meeting, you can send written comments to IDEM before the end of the public notice period. The public notice period will end on Monday, September 8, 2025. All comments will be considered by IDEM

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We appreciate your input



when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor or noise. For such issues, please contact your local officials. If you do not want to comment, but would like to be added to IDEM's mailing list to receive notice of future action related to this permit application, please contact IDEM. Please refer to permit number 089-48719-00121 in all correspondence.

To Contact IDEM:

Aasim Noveer
IDEM, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for Aasim Noveer or (317) 234-1243
Or dial directly: (317) 234-1243
Fax: (317) 232-6749 attn: Aasim Noveer
E-mail: anoveer@idem.IN.gov

If you need reasonable accommodations to participate in the public meeting, please contact IDEM's Americans with Disabilities Act coordinator at:

Indiana Department of Environmental Management
Attn: ADA Coordinator
402 W Washington St - Room E034
Indianapolis, IN 46204
317-233-4088
ESI@idem.IN.gov

Please provide a minimum of 24 hours notice if possible. Speech and hearing impaired callers may contact the agency via the Indiana Relay Service at 1-800-743-3333.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the addresses indicated above and will also be sent to the local library indicated above.

If you have any questions, please contact Aasim Noveer of my staff at the above address.



Brian Williams, Section Chief
Permits Branch
Office of Air Quality

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <https://www.in.gov/idem/airpermit/public-participation/>; and the Citizens' Guide to IDEM on the Internet at: <https://www.in.gov/idem/resources/citizens-guide-to-idem/>.



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Commissioner

NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a
Significant Modification to a
Part 70 Operating Permit

for U.S. Steel Corporation – Gary Works in Lake County

Significant Permit Modification No.: 089-48719-00121

The Indiana Department of Environmental Management (IDEM) has received an application from U.S. Steel Corporation – Gary Works, located at 1 North Broadway, Gary, IN 46402, for a significant modification of its Part 70 Operating Permit issued on May 7, 2025. If approved by IDEM's Office of Air Quality (OAQ), this proposed modification would allow U.S. Steel Corporation – Gary Works to make certain changes at its existing source. U.S. Steel Corporation – Gary Works has applied to incorporate site-specific emission factors that were developed through stack testing for the existing pig iron casting process.

This draft permit does not contain any new equipment that would emit air pollutants; however, some conditions from previously issued permits/approvals have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes (e.g., changes that add or modify synthetic minor emission limits). This notice fulfills the public notice procedures to which those conditions are subject. IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow for these changes.

A copy of the permit application and IDEM's preliminary findings have been sent to:

Gary Public Library and Cultural Center
220 West 5th Avenue
Gary, IN 46402

A copy of the preliminary findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

A copy of the application and preliminary findings is also available via IDEM's Virtual File Cabinet (VFC) located at <https://www.in.gov/idem/legal/public-records/virtual-file-cabinet/>. Once you have accessed VFC, you will then have the option to search for source related documents using a variety of criteria. To find documents related to this air permit, click on "Advanced Search", specify "OAQ" in the Program search field, specify the five-digit permit number "48719" in the Permit # search field, then click the Search button at the top or bottom of the webpage.

How can you participate in this process?

This notice is posted on IDEM's website (<https://www.in.gov/idem/public-notices/>). The date that this notice is posted on IDEM's website marks the beginning of a 30-day public comment period. If the 30th day of the comment period falls on a day when IDEM offices are closed for business, all comments must be postmarked or delivered in person on the next business day that IDEM is open.

You may request that IDEM hold a public hearing about this draft permit. If adverse comments concerning the **air pollution impact** of this draft permit are received, with a request for a public hearing, IDEM will decide whether or not to hold a public hearing. IDEM could also decide to hold a public meeting instead of, or in addition to, a public hearing. If IDEM decides to conduct a public hearing and/or public meeting, IDEM will post a separate announcement of the date, time, and location of that public hearing and/or public meeting on

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We appreciate your input!



IDEM's website (<https://www.in.gov/idem/public-notice/>). At a hearing, you would have an opportunity to submit written comments and make verbal comments. At a meeting, you would have an opportunity to submit written comments, ask questions, and discuss any air pollution concerns with IDEM staff.

Comments and supporting documentation, or a request for a public hearing should be sent in writing to IDEM at the address below. If you comment via e-mail, please include your full U.S. mailing address so that you can be added to IDEM's mailing list to receive notice of future action related to this permit. If you do not want to comment at this time, but would like to receive notice of future action related to this permit application, please contact IDEM at the address below. Please refer to permit number SPM 089-48719-000121 in all correspondence.

Comments should be sent to:

Aasim Noveer
IDEM, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251
(800) 451-6027, ask for Aasim Noveer or (317) 234-1243
Or dial directly: (317) 234-1243
Fax: (317) 232-6749 attn: Aasim Noveer
E-mail: anoveer@idem.IN.gov

All comments will be considered by IDEM when we make a decision to issue or deny the permit. Comments that are most likely to affect final permit decisions are those based on the rules and laws governing this permitting process (326 IAC 2), air quality issues, and technical issues. IDEM does not have legal authority to regulate zoning, odor, or noise. For such issues, please contact your local officials.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <https://www.in.gov/idem/airpermit/public-participation/>; and the Citizens' Guide to IDEM on the Internet at: <https://www.in.gov/idem/resources/citizens-guide-to-idem/>.

What will happen after IDEM makes a decision?

Following the end of the public comment period, IDEM will issue a Notice of Decision stating whether the permit has been issued or denied. If the permit is issued, it may be different than the draft permit because of comments that were received during the public comment period. If comments are received during the public notice period, the final decision will include a document that summarizes the comments and IDEM's response to those comments. If you have submitted comments or have asked to be added to the mailing list, you will receive a Notice of the Decision. The notice will provide details on how you may appeal IDEM's decision, if you disagree with that decision. The final decision will also be available on the Internet at the addresses indicated above and will also be sent to the local library indicated above.

If you have any questions, please contact Aasim Noveer or my staff at the above address.



Brian Williams, Section Chief
Permits Branch
Office of Air Quality



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Governor

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Mr. Jacob Blahut
U.S. Steel Corporation – Gary Works
One North Broadway, MS 70A
Gary, IN 46402

Re: 089-48719-000121
Significant Permit Modification

Dear Mr. Blahut:

U.S. Steel Corporation – Gary Works was issued Part 70 Operating Permit Renewal No. T089-46943-000121 on May 7, 2025 for a stationary integrated steel mill located at One North Broadway, Gary, IN 46402. An application requesting changes to this permit was received on January 31, 2025. Pursuant to the provisions of 326 IAC 2-7-12, a Significant Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

Please find attached the entire Part 70 Operating Permit as modified. The permit references the below listed attachment(s). Since these attachments have been provided in previously issued approvals for this source, IDEM OAQ has not included a copy of these attachments with this modification:

- Attachment A: Fugitive Dust Control Plan
- Attachment B: 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
- Attachment C: 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
- Attachment D: 40 CFR 60, Subpart D - Standards of Performance for Fossil-Fuel-Fired Steam Generators
- Attachment E: 40 CFR 60, Subpart Y - Standards of Performance for Coal Preparation and Processing Plants
- Attachment F: 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
- Attachment G: RESERVED
- Attachment H: RESERVED
- Attachment I: RESERVED
- Attachment J: 40 CFR 63, Subpart FFFFF - National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities
- Attachment K: 40 CFR 63, Subpart CCC - National Emission Standards for Hazardous Air Pollutants for Steel Pickling—HCl Process Facilities and Hydrochloric Acid Regeneration Plants
- Attachment L: RESERVED
- Attachment M: RESERVED
- Attachment N: RESERVED
- Attachment O: 40 CFR 63, Subpart DDDDD – National Emission Standards for Industrial, Commercial, and Institutional Boilers and Process Heaters
- Attachment P: RESERVED
- Attachment Q: RESERVED
- Attachment R: 40 CFR PART 63 Subpart GGGGG—National Emission Standards for Hazardous Air Pollutants: Site Remediation

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We appreciate your input!



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Previously issued approvals for this source containing these attachments are available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>.

Previously issued approvals for this source are also available via IDEM's Virtual File Cabinet (VFC). To access VFC, please go to: <https://www.in.gov/idem/legal/public-records/virtual-file-cabinet/>. Once you have accessed VFC, you will then have the option to search for source related documents using a variety of criteria.

Federal rules under Title 40 of United States Code of Federal Regulations may also be found on the U.S. Government Printing Office's Electronic Code of Federal Regulations (eCFR) website, located on the Internet at: http://www.ecfr.gov/cgi-bin/text-idx?tpl=/ecfrbrowse/Title40/40tab_02.tpl.

A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. A copy of the application and permit is also available via IDEM's Virtual File Cabinet (VFC) located at <https://www.in.gov/idem/legal/public-records/virtual-file-cabinet/>. Once you have accessed VFC, you will then have the option to search for source related documents using a variety of criteria. To find documents related to this air permit, click on "Advanced Search", specify "OAQ" in the Program search field, specify the five-digit permit number "48719" in the Permit # search field, then click the Search button at the top or bottom of the webpage.

For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <https://www.in.gov/idem/airpermit/public-participation/>; and the Citizens' Guide to IDEM on the Internet at: <https://www.in.gov/idem/resources/citizens-guide-to-idem/>.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5.

If you have any questions regarding this matter, please contact Aasim Noveer, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, Indiana Government Center North, 100 North Senate Avenue, Room 13W, Indianapolis, Indiana 46204-2251, or by telephone at (317) 234-1243 or (800) 451-6027, and ask for Aasim Noveer or (317) 234-1243.

Sincerely,

Brian Williams, Section Chief
Permits Branch
Office of Air Quality

Attachments: Modified Permit and Technical Support Document

cc: File - Lake County
Lake County Health Department
U.S. EPA, Region 5
Compliance and Enforcement Branch
IDEM Northwest Regional Office



Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

U.S. Steel Corporation - Gary Works One North Broadway Gary, Indiana 46402

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

The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Noncompliance with any provision of this permit, except any provision specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

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. (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.

Operation Permit No.: T089-46943-00121	
Master Agency Interest ID: 11591	
Issued by: Brian Willams, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 7, 2025 Expiration Date: May 7, 2030

Significant Permit Modification No.: T089-48719-00121	
Issued by: Brian Willams, Section Chief Permits Branch Office of Air Quality	Issuance Date: Expiration Date: May 7, 2030



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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.4 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(14)][326 IAC 2-7-1(20)]

The Permittee owns and operates a stationary integrated steel mill.

Source Address:	One North Broadway, Gary, Indiana 46402
General Source Phone Number:	(219) 888-2464
SIC Code:	3312 (Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills)
County Location:	Lake (Calumet Township)
Source Location Status:	Nonattainment for 8-hour ozone standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Emission Offset Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(20)]

US Steel - Gary Works is an integrated steel mill that includes the primary operation, U.S. Steel – Gary Works (Source ID 089-00121), at One North Broadway, Gary, Indiana, collocated with on-site contractors:

	Company Name	Source ID	Operation Description
1	U.S. Steel - Gary Works	089-00121	integrated steel mill
	On-Site Contractors		
2	TMS International, LLC	089-00132	slag processing/metal recovery
3	South Shore Slag, LLC	089-00133	slag crushing, screening and conveying
4	Central Teaming Company, Inc.	089-00172	material handling
5	TMS International, LLC	089-00174	scrap metal processing
6	Mid-Continent Coal & Coke	089-00173	coke screening operation
7	Fritz Enterprises, Inc.	089-00578	iron and slag processing operation

A Part 70 permit has been issued to U.S. Steel – Gary Works (Source ID 089-00121). Separate Administrative Part 70 permits will be issued to each of the on-site contractors, solely for administrative purposes. The companies may maintain separate reporting and compliance certification.

A.3 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)][326 IAC 2-7-5(14)]

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

Recycling Plant [SECTION D.6]

- (a) Blended Material Storage Bin Building, identified as ISB00377, constructed in 1979, including bins, feeders and conveyors, with a maximum capacity of 1,000 tons per hour, using a baghouse IS3196 as a control device and exhausting to stack IS6197.

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- (b) Storage and Blending Piles, identified as ISBP0376, with fugitive emissions.
- (c) Two (2) Strands, identified as ISS10379 and ISS30381, constructed in 1958, each with 50 MMBtu per hour duct burners combusting natural gas identified as ISB001 and ISB003 and a maximum capacity of 225 tons of product per hour each, each with ignition hood burners with a combined heat input of 50 MMBtu/hr combusting natural gas, controlled by two (2) Windbox Gas Cleaning Systems IS3203 and IS3204, installed in 1996, each comprised of a Quench Reactor, Dry Venturi Scrubber, a baghouse operated in series, exhausting to Windbox stacks IS6198 and IS6199 which are equipped with VOC CEMS.
- (d) Two (2) Coolers, identified as ISC10385 and ISC30387, constructed in 1958, with a maximum capacity of 225 ton per hour each, with emissions exhausting to stacks IS6203 and IS6205 respectively.
- (e) Two (2) Strand Discharge End Areas, identified as ISS10379 and ISS0381, constructed in 1958, using two (2) baghouses as control devices, designated as IS3205 and IS3207, exhausting to stacks IS6200 and IS6202 respectively.
- (f) One (1) Cold Screen Station, identified as ISR00389, constructed in 1958, with maximum capacity of 450 tons per hour, using a Baghouse IS3209 as a control device and exhausting to stack IS6207.
- (g) One (1) S1/S2 Conveyer System, identified as ISY00388, constructed in 1979, with a maximum capacity of 450 tons per hour, that transfers product from the coolers to the cold screening station, using a baghouse IS3208 as a control device and exhausting to stack IS6206.

The Recycling Plant is formerly known as the Number 3 Sinter Plant. Under 40 CFR 63, Subpart FFFFF, the emission units identified in (c) through (e) are considered affected facilities because they meet the definition of Sinter Plant per the Subpart FFFFF regulation.

Blast Furnaces [SECTION D.7]

- (a) Raw materials shipped to the ore yard identified as IAOYO366, are transferred to the Highline, identified as IAHL0307, from which raw material shipments and coke are sent through the Stockhouse.
- (b) The No. 14 Blast Furnace Stockhouse, constructed in 1979, modified in 2009, with the addition of a baghouse for particulate control, identified as Blast Furnace No. 14 Stockhouse Baghouse, exhausting to stack IDSH0367, servicing Blast Furnace 14. The No 4 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 4.
- (c) The No 6 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 6. The No. 8 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 8.

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- (d) No. 4 Blast Furnace, constructed in 1917, with a maximum capacity of 200 tons per hour, identified as IABF0308, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute.
- (1) Three (3) No. 4 Blast Furnace Stoves identified as IAST0360, replaced in 1947, with a maximum heat input capacity of 350 MMBtu per hour total combusting blast furnace gas (BFG) and natural gas, exhausting to the combustion stack IA6160.
 - (2) No. 4 Blast Furnace Casthouse, identified as IABF0308, constructed in 1917, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IA3177, exhausting to casthouse roof monitor IA6010.
 - (3) One (1) Slag Pit, identified as IASP0311, with fugitive emissions.

Under 40 CFR 63, Subpart FFFFF, the No. 4 Blast Furnace is considered as an affected facility.

- (e) No. 6 Blast Furnace, constructed in 1910, with a maximum capacity of 200 tons per hour, identified as IABFO341, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute.
- (1) Four (4) No. 6 Blast Furnace Stoves, identified as IBST0361, replaced in 1997, with a maximum heat input capacity of 350 MMBtu per hour total, combusting Blast Furnace Gas (BFG) and natural gas exhausting to the combustion stack IB6168.
 - (2) No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.
 - (3) One (1) Slag Pit, identified as IBSP0335, with fugitive emissions.

Under 40 CFR 63, Subpart FFFFF, the No. 6 Blast Furnace is considered as an affected facility.

- (f) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of 183 tons per hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate of 70 gallons per minute.
- (1) Four (4) No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of 325 MMBtu per hour total, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.
 - (2) No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.
 - (3) One (1) Slag Pit, identified as ICSP0363, with fugitive emissions.

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Under 40 CFR 63, Subpart FFFFF, the No. 8 Blast Furnace is considered as an affected facility.

- (g) No. 14 Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute.
 - (1) Three (3) No. 14 Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of 700 MMBtu per hour total, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184;
 - (2) No. 14 Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187 and fugitive emissions exhausting through the casthouse roof monitor ID6013;

Under 40 CFR 63, Subpart FFFFF, the No. 14 Blast Furnace is considered as an affected facility.

- (3) One (1) Slag Pit, identified as IDSP0371, with fugitive emissions.
- (4) Pursuant to SSM 089-20118-00121, issued on October 20, 2005, the following activities involved in the No. 14 Blast Furnace Reline Project were constructed:
 - (A) Replacement of furnace refractory lining with new and thinner refractory brick.
 - (B) Replacement of furnace shell.
 - (C) Removal and replacement of the top charging system with a new "bell-less" charging system.
 - (D) Placement of new copper staves in the mantle area of the furnace.
 - (E) Installation of copper cooling plates and a new bustle pipe.
 - (F) Repair of the checker work brick in the stoves and various structural, mechanical and electrical repairs.
 - (G) Enlargement of the slag granulator and addition of a stack.
 - (H) Changes to the casthouse and casthouse emissions control system to improve capture efficiency of hoods at the tap holes, iron troughs and runners.
 - (I) Removal and replacement of the existing system for cleaning blast furnace gas with a more efficient scrubbing system.
- (h) One (1) No. 14 Blast Furnace Slag Granulation Plant owned by U.S. Steel - Gary Works and operated by U.S. Steel - Gary Works as part of the slag processing operation. The

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granulation plant has a maximum capacity of 1,704,000 tons of steel mill slag per year, consisting of the following:

- (1) One (1) hot slag quenching operation, constructed in 1991, directed to a hooded exhaust stack.
- (2) Two (2) silos, constructed in 1991, for temporary slag storage.
- (3) Two (2) belt conveyers, constructed in January 1995.
- (4) One (1) storage silo and loadout bay, constructed in May 1995, with a capacity of 400,000 tons per year.

Under 40 CFR 63, Subpart FFFFF, the Blast Furnace Slag Granulation Plant is considered as an affected facility.

- (i) One (1) blast furnace gas distribution system consisting of instrumentation and valves designed to limit the maximum pressure through the distribution system by venting excess blast furnace gas to the three (3) bleeder stacks equipped with Flare No. 1 identified as BG6073, constructed before 1920, Flare No. 2, identified as BG6074 constructed before 1920 and Flare No. 4 identified as BG6075, constructed in 1974.
- (j) One (1) iron beaching process, constructed prior to 1965, identified as IMIB0378.
- (k) One (1) transfer ladle maintenance operation, constructed prior to 1965, identified as, IMVM0375.

Number One Basic Oxygen Process (BOP) Shop [SECTION D.8]

- (a) Two (2) Stations, identified as No. 1 and No. 2 Hot Metal Transfer and Desulfurization Stations. The Desulfurization Stations were originally constructed in 1981 and the Hot Metal Transfer Stations were originally constructed in 1965, and replaced in 1998. Each station consists of Hot Metal Desulfurization, SSS0201, Hot Metal Transfer SSMT0203 and Slag Skimming SSSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (b) One (1) Flux handling system, identified as SSFH0206, constructed in 1965, used for unloading, temporary storage, and transfer of fluxing agents to the steel making vessels, with a maximum capacity of 80 tons per hour. Emissions are controlled by No. 2, No. 3, and No. 4 baghouses SS3058, SS3059, and SS3053. Nos. 2 and 3 exhaust inside the building and No. 4 discharges through stack SS6056.
- (c) Basic Oxygen Process (BOP) Vessels, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by open combustion hoods and an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

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- (d) Two (2) gas cleaning systems, identified as SS3103 and SS3104, that process the exhaust gases from the three (3) steel making vessels consisting of three (3) quenchers, two (2) scuppers, two (2) Venturi scrubbers, two (2) separators, two (2) gas coolers fitted with internal mist eliminators and two (2) induced draft fans. Emissions exhaust through stacks SS6102 and SS6103.
- (e) CASbell/OB Lancing Stations M, D and E, include the controlled argon stirring process and blowing of oxygen to maintain temperature and chemistry. Constructed in 1981, Station M, identified as SSCM0231, Station E identified as SSCE0232, and Station D identified as SSCD0233 with a maximum capacity of 250 tons per hour each. Emissions are controlled by the CASbell/OB Lancing baghouse SS3105, exhausting through Stack SS6104 and uncaptured emissions venting to the roof monitor SS6636.
- (f) One (1) Slingot Moulding Station, including the casting of bottom-poured steel ingots, identified as SSMS0227, constructed in 1965, exhausting to the roof monitor SS6637.
- (g) Nine (9) natural gas-fired Ladle Preheaters and Dryers, identified as No. 1 through 9, with 1 through 4, constructed in 1983, 5 and 6 constructed in 1982 and 7 through 9 construction unknown. Six (6) Preheaters with a capacity of 14 MMBtu/hr each and three (3) Dryers with a capacity of 10 MMBtu/hr each, identified as SSLD0230, exhausting through Roof Monitor SS6637.
- (h) One (1) Continuous Caster, identified as SCSC0274, constructed in 1967, including a Tundish dryer with a heating capacity of 7.0 MMBtu/hr per hour, continuously casting steel slabs with a maximum capacity of 275 tons per hour. Emissions exhaust through Roof Monitor SS6638.
- (i) One (1) fugitive emissions mitigation system at the No. 1 BOP Shop, constructed in June 2002, consisting of a capture hood system ducted to a 99% efficient baghouse with a flow rate of 11,500 acfm.
- (j) One emergency slag skimming station, with a maximum capacity of 456 tons per hour, exhausting to the roof monitor SS6636.

Under 40 CFR 63, Subpart FFFFF, this unit is considered as an affected facility.

Number Two Q-BOP Shop [SECTION D.9]

- (a) Two (2) Hot Metal Transfer and Desulfurization Stations, identified as NSDS0246, constructed in 1987, with a maximum capacity of 510 tons per hour. These stations included: two (2) Hot Metal Mixers, identified as NSMM0264 and two (2) Hot Metal Mixer Heaters, identified as NSMH0251, constructed in 1973, with a maximum capacity of 255 tons per hour. The natural gas-fired mixer heaters have a heat input capacity of 10 MMBtu/hr each. Emissions from the hot metal transfer and desulfurization stations, mixers and heaters are controlled by the Hot Metal Transfer and Desulfurization Stations Baghouse NS3115, discharging through NS6144 and the uncontrolled emissions go through roof monitor NS6631.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (b) Q-Basic Oxygen Process (BOP) vessels, constructed in 1973, consisting of BOP vessel T identified as NSVT0268, vessel W, identified as NSVW0269, and vessel Y, identified as NSVY0270, with a maximum capacity of 250 tons per hour each. Primary emissions are controlled by open combustion hood and two (2) Gas Cleaning Systems, secondary

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emissions are controlled by the Secondary Emissions Control Baghouse NS3124, exhausting to stack NS6123, and uncontrolled emissions exhaust through Roof Monitor NS6632.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (c) Two (2) Gas Cleaning Systems, identified as NS3125 and NS3126 located in the gas cleaner facility, constructed in 1973, process the exhaust gases from the three (3) steel making vessels through three (3) quenchers, two (2) scuppers (tank like structures that remove excess quench water and solids from the gas stream), two (2) Venturi scrubbers, two (2) separators, two (2) gas coolers with mist eliminators, and two (2) induced draft fans exhausting to Stacks NS6124 and NS6125.
- (d) Three (3) Flux Bins T, W, and Y, identified as NSVT0265, NSVW0266 and NSVY0267, constructed in 1973, with a maximum capacity of 141 tons per hour each. Emissions are controlled by five (5) baghouses. Three (3) Flux Transfer Baghouses at 166' level identified as NS3112, NS3108, and NS3107, exhausting through Stacks NS6623, NS6627 and NS6628 recycling captured material back to the process; One (1) North Flux Handling Baghouse at 116' level identified as NS3109 and one (1) South Flux Handling Baghouse at 116' level identified as NS3110, exhausting through stacks NS6626 and NS6625. Uncontrolled emissions exhaust through the roof monitor NS6632.
- (e) Three (3) Ladle Metallurgical Facilities, LMF 1 identified as NSL10293, LMF 2 identified as NSL20294 were constructed in 1986 and LMF 3 identified as NSL30295, constructed in 1991 with a maximum capacity of 348 tons per hour each. Hot fume emissions from LMF 1 and 2 are controlled by Nos. 1 and 2 LMF Hot Fume Exhaust baghouses NS3135 and NS3136, exhausting through stacks NS6146 and NS6147. Material handling emissions at LMF 1 and 2 are controlled by the LMF Nos. 1 and 2 Material Handling baghouse NS3052, exhausting through stack NS6055. The LMF 3 Hot Fume Exhaust and Material Handling emissions are controlled by the LMF 3 Hot Fume and Material Handling Baghouse NS3137, exhausting to stack NS6148. All uncontrolled emissions exhaust through the roof monitor NS6634.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (f) One (1) R-H Vacuum Degasser, identified as NSVD0271, constructed in 1989, with a maximum capacity of 297.1 tons of steel per hour consisting of two (2) natural gas-fired heaters, one (1) active and one (1) spare, identified as NSAB0276 and NSSB0275, with heat input capacities of 12 MMBtu per hour and 3 MMBtu per hour, respectively. Carbon monoxide and other combustible gas emissions are controlled with a flare that exhausts through Stack NS6145 and uncontrolled emissions exhaust through the Roof Monitor NS6634.
- (g) One (1) Slag Conditioning Station servicing the RH Vacuum Degasser, constructed in 1997, with a maximum capacity of 297.1 tons of steel per hour.
 - (1) PM10 emissions from the material handling of slag conditioning and metallurgical agents are exhausted through the RH Vacuum Degasser Slag Conditioning Baghouse NS3207, exhausting through Stacks S-1 through S-6.
- (h) One (1) Daytank Lime Silo at the lime dumping station, identified as NSDS0250 constructed in 1971. Emissions are controlled by the Daytank Lime Silo baghouse NS3106, exhausting through the stack, NS6629.
- (i) Three (3) Continuous Casting Lines, identified as Lines A, B and C identified as, NCCA0284, NCCB0285 and NCCC0286, with a total maximum capacity of 800 tons per

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hour combined. Lines A and B were constructed in 1986. Line C was constructed in 1991. Emissions from the continuous casters go to the Roof Monitor NC6635.

- (j) Fourteen (14) natural gas-fired Ladle Preheaters, identified as NBLD0262, eleven (11) with a heat input capacity of 9 MMBtu per hour each and three (3) with a heat input of 10 MMBtu per hour each. Emissions go through Roof Monitor NS6633.
- (k) Two (2) Hot Metal Ladle Skimmers, identified as NSLS0248, constructed in 1973. Emissions go through Roof Monitor NS6631.
- (l) Two (2) Steel Slag Skimming Stations, consisting of slag skimmers, identified as NSS10292 and NSS20287. Both were constructed in 1973. Emissions go through Roof Monitor NS6633.
- (m) One (1) Slingot Station, identified as NSST0290, constructed in 1986. Emissions go through Roof Monitor NS6634.
- (n) Eight (8) natural gas-fired Tundish Preheaters located at the No. 2 Caster, with a heat input capacity of 6 MMBtu per hour each. Emissions go through Roof Monitor NC6635.

Hot Rolling Mill [SECTION D.10]

- (a) Four (4) reheat furnaces Nos. 1, 2, 3 and 4, identified as RMF10500, RMF20501, RMF30502 and RMF40503 commenced operation in 1967, with heat input capacity of 600 MMBtu per hour each. Each furnace is equipped to combust natural gas with emissions exhausting through Stacks RM6500, RM6501, RM6502 and RM6503.
- (b) Two (2) waste heat boilers Nos. 1 and 2, identified as RB1B0508 and RB2B0509, commenced operation in 1967, with a heat input capacity of 226 MMBtu per hour each. The heat input capacity from fuel from these boilers is derived from a combination of waste heat ducted from the reheat furnaces and the combustion of natural gas. Emissions exhaust through the waste heat boiler stacks HB6504 and HB6505.
- (c) One (1) 84-inch Hot Strip Mill, identified as RMV00504, commenced operation in 1967, with a maximum capacity of 856 tons per hour, 5 roughing mills and a 7-stand finishing mill with fugitive emissions through a Roof Monitor RM6630.

Continuous Pickling Lines [SECTION D.11]

- (a) One (1) 84-inch Pickle Line, the North Continuous Pickle Line, identified as HWPO0625, constructed in 1968, with a maximum capacity of 314 tons per hour consisting of four (4) pickle tanks and two (2) rinse tanks (hot and cold). Emissions at this pickle line are controlled by a fume exhaust scrubber, HW3545 exhausting to stack HW6525.
- (b) One (1) 80-inch Pickle Line, the South Continuous Pickle Line, identified as HMPO0589, constructed in 1948, with a maximum capacity of 91 tons per hour, consisting of three (3) pickle tanks and two (2) rinse tanks (hot and cold). Emissions are controlled by a fume exhaust scrubber, HM3540, exhausting to stack HM6520.

Under 40 CFR 63, Subpart CCC, these units are considered affected facilities.

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Sheet Products Division [Section D.12]

(a) North Sheet Mill

- (1) One (1) 5-Stand Cold Reduction Mill, identified as H5M50637, constructed in 1964, with a maximum capacity of 400 tons per hour, consisting of 5 Mill Stands. Emissions are controlled by fume collection H53547, exhausting to Stack H56527.
- (2) Twenty-six (26) 4-Stack A Box Annealing Furnaces and 50 bases, identified as HTAF0813 through HTAF0838, constructed in 1964, with a heat input capacity of 12 MMBtu per hour each. These furnaces are indirect fired with emissions exhausting through vent pipes HT6530 through HT6555.

Under 40 CFR 63, Subpart DDDDD, these are considered existing process heaters.

- (3) One (1) 80-inch temper mill, constructed in 1964, with a maximum capacity of 250 tons per hour, with fugitive emissions.
- (4) One (1) 80-inch Recoil Line, constructed in 1964, with a maximum capacity 120 tons per hour, with fugitive emissions.

(b) South Sheet Mill

- (1) Seventeen (17) 8-Stack A Box Annealing furnaces and 66 bases, identified as HXBA0560 through HXBA0576, constructed in 1948. Eleven (11) furnaces have a heat input capacity of 15 MMBtu per hour each and the remaining six (6) are rated at 18 MMBtu per hour each. Emissions from these furnaces exhaust through the Roof Monitor HX6003.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

- (2) One (1) 2-Stand Temper Mill, identified as H2M00579, constructed in 1974, with a maximum capacity of 89 tons per hour, with fugitive emissions through Roof Monitor H26004.
- (3) One (1) No. 6 East Galvanizing Line, constructed in 1962, with a maximum capacity of 48 tons an hour, with one (1) annealing furnace, identified as H6F10527, with a heat input of 45 MMBtu per hour and emissions through stack H66516. Also, contains one (1) Galvanneal Furnace identified as HF20529 with a heat input capacity of 20.0 MMBtu per hour and emissions exhausting through Roof Monitor H66006.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

- (4) Two (2) hydrogen atmosphere batch annealing furnaces, with a total heat input capacity of 10.26 MMBtu per hour, constructed in 1997, consisting of three (3) fixed bases and two (2) movable cooling hoods, exhausting to the indoors.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

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- (5) One (1) 84-inch Hot Roll Temper Mill, constructed in 1967, with a maximum capacity of 124 tons per hour, with fugitive emissions.
- (6) One (1) coil prep line, constructed in 1968, with a maximum capacity of 73 tons per hour, with fugitive emissions.

Tin Division [Section D.13]

- (a) One (1) 6-Stand Cold Reduction Mill, identified as TRM00709, constructed in 1967, with a maximum capacity of 150 tons per hour. Emissions are controlled by a mist eliminator TR3600, exhausting to stack TR6575.
- (b) One (1) cleaning line, identified as No. 7 Cleaning Line, constructed in 1967, with a maximum capacity of 80 tons per hour. Fumes are controlled by a fume scrubber exhausting to a stack (TC6599).
- (c) One (1) Annealing Line, identified as No. 2 Continuous Anneal Line, constructed in 1959, containing an annealing furnace, identified as T2AF0799, with a maximum heat input capacity of 35 MMBtu per hour. Emissions exhaust to stack T26610. The No. 2 Continuous Anneal Line has a cleaning section with fumes collected in a fume scrubber exhausting through a stack (TA6600).

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

- (d) Five (5) 4-Stack A Box Annealing Furnaces and 12 bases, identified as TXAF0765 through TXAF0769, constructed in 1968. All furnaces have a heat input of 10.5 MMBtu per hour each. Emissions exhaust to stacks TX6580 through TX6584.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

- (e) One (1) 48-inch Temper Mill, constructed in 1958, with a maximum capacity of 150 tons per hour, with fugitive emissions. This unit has a dust filter that exhausts inside the building.
- (f) One (1) Double Reduction Mill with two (2) mill stands, identified as TDMO0742, constructed in 1963, with a maximum capacity of 75 tons per hour. Emissions are controlled by a mist eliminator D3603, exhausting to stack TD6595.
- (g) One (1) No. 1 Tin Free Steel Line (TFS), constructed in 1950, with a maximum capacity of 24 tons per hour. The chemical treatment rinse section, TFR00753 exhaust through stack TF6597 and all other fugitive emissions from the line to roof monitor TF6661.
- (h) One (1) No. 5 Electrolytic Tinning Line (5 ETL), constructed in 1957, and with a maximum capacity of 50 tons per hour. The No. 5 ETL contains a Plating and Chemical Treatment Tank, identified as TFR00777, with emissions through a voluntary fume exhaust scrubber system (TE6598).
- (i) One (1) No. 6 Electrolytic Tinning Line (6 ETL), constructed in 1966, with a maximum capacity of 120 tons per hour. The 6 ETL also contains a Plating and Chemical Treatment Tank, identified as T6H00786, with emissions through a voluntary fume exhaust scrubber system (TE6598).
- (j) One (1) Tin Anode Caster, constructed in 1965, with a maximum capacity of 0.57 tons per hour, with fugitive emissions through roof monitor.

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- (k) One (1) Tin Mill Recoil and inspection Line, constructed in 1967, with a maximum capacity of 14.8 tons per hour.
- (l) One (1) 45" Side Trimmer, constructed in 1961, with fugitive emissions through the roof monitor.

No. 4 Boiler House [Section D.14]

- (a) Two (2) Boilers, No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas, and fuel oil, with a maximum heat input of 500 MMBtu per hour, each, and exhausting through Stacks O46268 and O46269, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler, No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 500 MMBtu per hour, exhausting through Stack O46270.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

Turboblower Boiler House (TBBH) [Section D.15]

- (a) Three (3) Boilers No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour, exhausting through Stack OT6275.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

- (c) One (1) Boiler No. 6, identified as OTB60467, constructed after August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276, with a continuous emissions monitoring system for NOx on the stack.

Under 40 CFR 60, Subpart D, this unit is considered an affected facility.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

Coal Pulverization and Air Preheater System (East PCI Coal Pulverization) [Section D.22]

- (a) One (1) coal pulverization equipment train, identified as SS-1, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 1A, 1B and 1C.
- (b) One (1) coal pulverization equipment train, identified as SS-2, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone,

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constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 2A, 2B and 2C.

- (c) One (1) coal pulverization equipment train, identified as SS-3, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 3A, 3B and 3C.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Pulverized Coal Storage and Feed System (West PCI Coal Pulverization) [Section D.22]

- (a) One (1) pulverized coal transport, identified as Line A, constructed in 1993, with a maximum capacity of 210 tons per hour, ducted to a baghouse (A) exhausting to stack (SS-5).
- (b) One (1) pulverized coal transport, identified as Line B, constructed in 1993, with a maximum capacity of 210 tons per hour, ducted to a baghouse (B) exhausting to stack (SS-6).
- (c) One (1) pulverized coal storage reservoir, constructed in 1993, with a maximum capacity of 600 tons, blanketed with nitrogen and ducted to a baghouse (vent filter house) exhausting to stack (SS-7).

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Railcar Heater (PCI Coal Handling Thaw Shed) [Section D.22]

- (a) One (1) railcar heater system, constructed in 1993, with a maximum capacity of 14 MMBtu per hour, exhausting inside the building.

Coal Handling Operations [Section D.22]

- (a) One (1) railcar dumper, identified as RCD-1, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse 8AB exhausting through one or two fans to stacks 8A and/or 8B.
- (b) One (1) reclaim hopper, identified as RCH-1, constructed in 1993, with a maximum capacity of 300 tons per hour, ducted to baghouse DC-6 and exhausting to stack DC-6.
- (c) One (1) Car Dump Hopper 1/C1, identified as FS-8, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to baghouse DC-1 exhausting to stack F1.
- (d) One (1) Car Dump Hopper 2/C1, identified as FS-9, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to a baghouse DC-2 exhausting to stack F2.
- (e) One (1) Car Dump Hopper 3/C1, identified as FS-10, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to a baghouse DC-3 exhausting to stack F3.
- (f) One (1) Transfer Point C1/C2, identified as FS-2, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-4 exhausting to stack F4.

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- (g) One (1) Reclaim Hopper/C2, identified as FS-14, constructed in 1993, with a maximum capacity of 300 tons per hour, ducted to a baghouse DC-5 exhausting to stack F5.
- (h) One (1) Screen Transfer/C2, identified as FS-3, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-7 exhausting to stack F7.
- (i) One (1) Screen/C3 Gate Transfer, identified as FS-11, constructed in 1993, ducted to a baghouse DC-8 exhausting to stack F.
- (j) One (1) Screen/C4 Gate Transfer, identified as FS-12, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-9 exhausting to stack F9.
- (k) One (1) Transfer Point C4/C5, identified as FS-4, constructed in 1993, ducted to a baghouse DC-10 exhausting to stack F10.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

East Building – Coal Handling [Section D.22]

- (a) One (1) Transfer Point C5/C6, identified as FS-5, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-11 exhausting to stack F11.
- (b) One (1) Transfer Point C6/Bin 1, identified as FS-7, constructed in 1993, ducted to baghouse DC-12 exhausting to stack F12.
- (c) One (1) Transfer Point C5/Bin 2, identified as FS-6, constructed in 1993, ducted to baghouse DC-13 exhausting to stack F13.
- (d) One (1) Transfer Point C6/Bin 3, identified as FS-13, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to baghouse DC-14 exhausting to stack F14.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Coal Piles and Haul Roads [Section D.22]

- (a) One (1) coal pile and handling operation, identified as F17, constructed in 1993, with a storage capacity of 100,000 tons and an area of 2 acres, having a maximum throughput of 200,000 tons per year.
- (b) Haul Roads - Vehicle Traffic

Corrective Action Management Unit (CAMU) [Section D.27]

- (a) One (1) CAMU Evaporative Spray System, with a maximum throughput capacity of 250 gallons per minute (gpm), consisting of 16 spray heads, each with a rated capacity of 14.4 gpm, located on the floor of CAMU Unit 2. The system is fed from a single pump drawing water from the CAMU Unit 1 leachate collection system, which contains non-native materials dredged from the Calumet River.

Fugitive Dust Sources [Section D.16]

- (a) Paved and unpaved roads and parking lots with public access.

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- (b) Batch transfer-loading and unloading operations
- (c) Continuous transfer in and out of storage piles
- (d) Batch transfer operations-slag and kish handling
- (e) Wind erosion from storage piles and open areas
- (f) In plant transfer by truck or rail
- (g) In plant transfer by front end loader or skip hoist
- (h) Material processing facility
- (i) Crusher fugitive emissions
- (j) Material processing facility building openings
- (k) Dust handling equipment

Coke Receiving and Handling [Section D.28]

- (a) One (1) coke rail car unloading station, constructed in 2014, identified as CPS0001, with a maximum capacity of 10,126,560 tons per year, consisting of the following:
 - (1) One (1) unloading station.
 - (2) One (1) conveyor, with a maximum rated capacity of 1,156 tons per hour.

Iron Ore Screening [Section D.29]

- (a) One (1) iron ore pellet screening plant, identified as North Plant Unit 01, constructed in 1974, with a nominal capacity of 600 tons per hour, using screens and conveyers to process iron ore pellets.
- (b) One (1) iron ore pellet screening plant, identified as South Plant Unit 02, constructed in July 1981, with a nominal capacity of 600 tons per hour, using screens, equipped with an enclosure, and conveyers to process iron ore pellets, consisting of the following:
 - (1) One (1) feed hopper, identified as SH1
 - (2) One (1) main feed conveyor, identified as SC1
 - (3) One (1) Tyler shaker, identified as SS1
 - (4) One (1) stacker conveyor, identified as SC2
 - (5) One (1) shuttle conveyor, identified as SC3
 - (6) Two (2) conveyors, identified as SC4 and SC5
 - (7) Stockpiles
- (c) One (1) portable iron ore pellet screening station, identified as PPS-1, constructed in 2018, with a maximum capacity of 900 tons per hour, using screens and conveyers to process iron ore pellets, consisting of the following:
 - (1) One (1) feed hopper
 - (2) One (1) feed conveyor
 - (3) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points

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- (4) One (1) oversize discharge conveyor
- (5) One (1) fines discharge conveyor

(d) Loaders for loading/unloading and transporting iron ore pellets on unpaved roads.

Material Screening [Section D.18]

(a) One (1) material screening operation, identified as Area Three Screening Station (CPS002), constructed in 2015 and permitted in 2023, consisting of the following equipment:

- (1) One (1) Dock Unloading storage pile, constructed in 2015, with a nominal capacity of 74,669 ft².
- (2) One (1) Area Three Material Pre-Screen storage pile, constructed in 2015, with a nominal capacity of 475 ft².
- (3) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 250 tons per hour, consisting of the following:
 - (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) undersize discharge conveyor
 - (F) One (1) diesel engine, identified as CPS002-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.

- (4) One (1) Area Three undersize storage pile, constructed in 2015, with a nominal capacity of 475 ft².
- (5) One (1) Area Three oversize stacker conveyor for loading railcars, constructed in 2015, with a maximum rated capacity of 400 tons per hour, driven by one (1) diesel engine, identified as CPS002-E2, with a maximum rated output of 38 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.

(b) One (1) material screening operation, identified as N-Yard Screening Station (CPS003), constructed in 2015 and permitted in 2023, consisting of the following equipment:

- (1) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 250 tons per hour, consisting of the following:
 - (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) fines discharge conveyor

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- (F) One (1) diesel engine, identified as CPS003-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.

- (2) One (1) N-Yard oversize stacker for loading railcars, constructed in 2015, with a maximum rated capacity of 400 tons per hour, driven by one (1) diesel engine identified as CPS003-E2, with a maximum rated output of 38 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.

- (c) One (1) material screening operation, identified as Undersize Material Screening Station (CPS004), constructed in 2015 and permitted in 2023, consisting of the following equipment:

- (1) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 200 tons per hour, consisting of the following:

- (A) One (1) feed hopper
- (B) One (1) feed conveyor
- (C) One (1) double deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
- (D) One (1) oversize discharge conveyor
- (E) One (1) buckwheat discharge conveyor
- (F) One (1) undersize discharge conveyor
- (G) One (1) diesel engine, identified as CPS004-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ this is considered an affected engine.

Groundwater Sparging [Section D.32]

- (a) One (1) pilot test air sparging system, identified as PTAS, constructed in 2017, with a maximum air injection rate of 20 acfm (actual cubic feet per minute), using no control equipment, and exhausting to stack PTAS-1.

Pig Iron Caster [Section D.30]

- (a) One (1) pig iron caster, constructed in 2022, with a maximum capacity of 200 tons of pig iron ingots per hour, using a baghouse as control, and exhausting to stack S01.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(19)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(19):

- (a) Degreasing operations that do not exceed 145 gallons per twelve (12) months, except if subject to 326 IAC 20-6.

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- (b) Cleaners and solvents characterized as follows:
 - (1) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38°C (100°F) or;
 - (2) Having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per twelve (12) months.
- (c) The following VOC and HAP storage containers:
 - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
 - (2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (d) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (e) Any of the following structural steel and bridge fabrication activities:
 - (1) Cutting 200,000 linear feet or less of one inch (10) plate or equivalent.
 - (2) Using 80 tons or less of welding consumables.
- (f) Conveyors as follows:
 - (1) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day;
 - (2) Uncovered coal conveying of less than or equal to 120 tons per day.

Under 40 CFR 60, Subpart Y these units are considered affected facilities.
- (g) Coal bunker and coal scale exhausts and associated dust collector vents.
- (h) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.
- (i) Vents from ash transport systems not operated at positive pressure.
- (j) Fuel dispensing activities, including the following:
 - (1) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment.
 - (2) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less. A petroleum fuel, other than gasoline, dispensing facility having a storage capacity

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- less than or equal to 10,500 gallons, dispensing less than or equal to 230,000 gallons per month.
- (3) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
 - (4) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
 - (5) The following VOC and HAP storage containers: Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (k) One (1) 5,000 gallon #2 diesel fuel tank - A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
 - (l) Space heaters, process heaters, or boilers using the following fuels:
 - (1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
 - (2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing equal or less than five-tenths percent (0.5%) sulfur by weight.
 - (m) Equipment powered by diesel fuel fired or natural gas-fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) British thermal units per hour except where total capacity of equipment operated by one (1) stationary source as defined by subdivision (38) exceeds two million (2,000,000) British thermal units per hour.
 - (n) Combustion source flame safety purging on startup.
 - (o) Refractory storage not requiring air pollution control equipment.
 - (p) Equipment used exclusively for the following:
 - (1) Packaging lubricants and greases.
 - (2) Filling drums, pails, or other packaging containers with the following: Lubricating oils, Waxes and Greases.
 - (q) Application of: oils; greases; lubricants; and nonvolatile material; as temporary protective coatings.
 - (r) Closed loop heating and cooling systems.
 - (s) Rolling oil recovery systems.
 - (t) Groundwater oil recovery wells.
 - (u) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
 - (v) Water runoff ponds for petroleum coke-cutting and coke storage piles.

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- (w) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPS.
- (x) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPS.
- (y) Noncontact cooling tower systems with forced or induced draft cooling tower system not regulated under a NESHAP.
- (z) Quenching operations used with heat treating operations.
- (aa) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (bb) Heat exchanger cleaning and repair.
- (cc) Process vessel degassing and cleaning to prepare for internal repairs.
- (dd) Stockpiled soils from soil remediation activities that are covered and waiting transport for disposal.
- (ee) Underground conveyors.
- (ff) Asbestos abatement projects regulated by 326 IAC 14-10.
- (gg) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (hh) Flue gas conditioning systems and associated chemicals, such as the following: sodium sulfate, ammonia and sulfur trioxide.
- (ii) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (jj) Blow down for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (kk) Activities associated with emergencies, including the following:
 - (1) On-site fire training approved by the department.
 - (2) Emergency generators as follows: Gasoline generators not exceeding one hundred ten (110) horsepower, Diesel generators not exceeding one thousand six hundred (1,600) horsepower and natural gas turbines or reciprocating engines not exceeding one thousand six hundred (1,600) horsepower.
 - (3) Stationary fire pumps.
- (ll) Purge double block and bleed valves.
- (mm) A laboratory as defined in 326 IAC 2-7-1(19)(G).

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- (nn) RCRA groundwater remediation system, identified as GWRP-1 which includes eleven (11) recirculation wells to remove benzene from groundwater through a combination of in-situ air sparging, air stripping and vapor extraction.
- (oo) Two (2) natural gas-fired boilers, identified as ETF-1 and ETF-2, permitted in 2016, each with a maximum capacity of 6.27 MMBtu/hr, equipped with low NOx burners and flue gas recirculation, and exhausting to stack ETF-1a and ETF-2a, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered new industrial boilers.
- (pp) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, as follows:
 - (1) Thirty-six (36) space heaters, constructed in 2018, each with a maximum heat input capacity of 0.4 MMBtu/hr.
- (qq) One (1) full-scale air sparging system, identified as Area-5FS, permitted in 2019, with a maximum air injection rate of 1,443 standard cubic feet per minute (SCFM), using no control equipment, and exhausting to stack Area-5FSa.
- (rr) One (1) natural gas-fired mold dryer burner, constructed in 2022, with a maximum heat input capacity of 2.3 MMBtu per hour, using no control, and exhausting outdoors.
- (ss) The following fugitive emission sources:
 - (1) One (1) shot bunker, constructed in 2022, with a maximum capacity of 1.0 ton per hour, using no control, and exhausting outdoors.
 - (2) Unpaved roads
- (tt) One (1) full-scale air sparging system, identified as Area-2FS, permitted in 2022, with a maximum air injection rate of 1,443 standard cubic feet per minute (SCFM), using no control equipment, and exhausting to stack Area-2FSa.

A.5 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(20);
- (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).

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SECTION B

GENERAL CONDITIONS

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

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

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

- (a) This permit, T089-46943-00121, 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.3 Term of Conditions [326 IAC 2-1.1-9.5]

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

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

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

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

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

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

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

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

- (a) The Permittee shall furnish to IDEM, OAQ, 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. 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.

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

- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:
- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(33), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use 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(33).

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

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region 5
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

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- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

- (a) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

- (b) Where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

The Permittee shall implement the PMPs.

- (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.

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The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.11 Reserved

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
- (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

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- (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)]

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

- (a) All terms and conditions of permits established prior to T089-46943-00121 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit.

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

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

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).
- (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)]

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

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and 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(19) and 326 IAC 2-7-1(39). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 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
Permit Administration and Support Section, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

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Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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

- (a) No Part 70 permit revision or notice 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.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b) or (c) without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region 5
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and
 - (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to

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326 IAC 2-7-20(b)(1) and (c)(1). The Permittee shall make such records available, upon reasonable request, for public review.

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

- (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(35)) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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

B.20 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.21 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;
- (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;

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- (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.22 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
Permit Administration and Support Section, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

- (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.23 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 317-233-8590 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 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.

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SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

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

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

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

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

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.5 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

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

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.

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- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
 - (1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
 - (2) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (3) The PM10 stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
 - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:
 - (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
 - (3) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:
 - (A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
 - (B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

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

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

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. 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.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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

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

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

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).
- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).
- (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.

C.9 Sulfur Fuel Sampling and Analysis (Entire Source) [326 IAC 7-4.1-2]

- Pursuant to 326 IAC 7-4.1-2 and in order to comply with sulfur dioxide limitations in the applicable D sections, the Permittee shall submit a sampling and analysis protocol to the Department by July 1, 2006.
- (a) The protocol shall contain a description of planned procedures for:
 - (1) sampling of sulfur-bearing fuels and materials;
 - (2) analysis of the sulfur content; and

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- (3) any planned direct measurement of sulfur dioxide emissions vented to the atmosphere; and
- (b) Specify the frequency of sampling, analysis, and measurement for each fuel and material and for each emissions unit.
- (c) The protocol may be revised as necessary with approval by IDEM-OAQ.
- (d) IDEM, OAQ may also require that a source conduct a stack test at any facility listed in this permit within sixty (60) days of written notification by the IDEM-OAQ.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.11 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]

- (a) For new units:
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.
- (b) For existing units:
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

- (c) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.
- (d) For monitoring required by CAM, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee

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shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

C.12 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8]

- (a) Pursuant to 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.
- (b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ not later than thirty (30) days after the update.
- (c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP is a violation of 326 IAC 6.8-8.

C.13 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. The analog instrument shall be capable of measuring values outside of the normal range.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

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

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) 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.15 Risk Management Plan [326 IAC 2-7-5(11)] [40 CFR 68]

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

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C.16 Response to Excursions or Exceedances [40 CFR 64][326 IAC 3-8][326 IAC 2-7-5]
[326 IAC 2-7-6]

- (I) Upon detecting an excursion where a response step is required by the D Section, or an exceedance of a limitation, not subject to CAM, in this permit:
 - (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
 - (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
 - (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
 - (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
 - (e) The Permittee shall record the reasonable response steps taken.
- (II)
 - (a) *CAM Response to excursions or exceedances.*
 - (1) Upon detecting an excursion or exceedance, subject to CAM, the Permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return

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operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

- (2) Determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.
- (b) If the Permittee identifies a failure to achieve compliance with an emission limitation, subject to CAM, or standard, subject to CAM, for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the IDEM, OAQ and, if necessary, submit a proposed significant permit modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.
- (c) Based on the results of a determination made under paragraph (II)(a)(2) of this condition, the EPA or IDEM, OAQ may require the Permittee to develop and implement a Quality Improvement Plan (QIP). The Permittee shall develop and implement a QIP if notified to in writing by the EPA or IDEM, OAQ.
- (d) Elements of a QIP:
The Permittee shall maintain a written QIP, if required, and have it available for inspection. The plan shall conform to 40 CFR 64.8(b)(2).
- (e) If a QIP is required, the Permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the IDEM, OAQ if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
- (f) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (II)(a)(2) of this condition the EPA or the IDEM, OAQ may require that the Permittee make reasonable changes to the QIP if the QIP is found to have:
 - (1) Failed to address the cause of the control device performance problems;
or
 - (2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (g) Implementation of a QIP shall not excuse the Permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.
- (h) *CAM recordkeeping requirements.*
 - (1) The Permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality

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improvement plan required pursuant to paragraph (II)(c) of this condition and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this condition (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Section C - General Record Keeping Requirements of this permit contains the Permittee's obligations with regard to the records required by this condition.

- (2) Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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

C.18 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, startups or shutdowns of any emission unit or emission control equipment, that results in violations of applicable air pollution control regulations or applicable emission limitations must be kept and retained for a period of three (3) years and be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any emission unit or emission control equipment occurs that lasts more than one (1) hour, the condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification must be made by telephone or other electronic means, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of the occurrence.
- (c) Failure to report a malfunction of any emission unit or emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information on the scope and expected duration of the malfunction must be provided, including the items specified in 326 IAC 1-6-2(c)(3)(A) through (E).

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- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.19 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]

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(31) ("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
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

C.20 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]
[326 IAC 2-2][326 IAC 2-3]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. Support information includes the following, where applicable:

- (AA) All calibration and maintenance records.
(BB) All original strip chart recordings for continuous monitoring instrumentation.
(CC) Copies of all reports required by the Part 70 permit.

Records of required monitoring information include the following, where applicable:

- (AA) The date, place, as defined in this permit, and time of sampling or measurements.
(BB) The dates analyses were performed.
(CC) The company or entity that performed the analyses.
(DD) The analytical techniques or methods used.
(EE) The results of such analyses.
(FF) The operating conditions as existing at the time of sampling or measurement.

These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

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- (c) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A), 326 IAC 2-2-8 (b)(6)(B), 326 IAC 2-3-2 (l)(6)(A), and/or 326 IAC 2-3-2 (l)(6)(B)) that a “project” (as defined in 326 IAC 2-2-1(o) and/or 326 IAC 2-3-1(j)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
- (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(o) and/or 326 IAC 2-3-1(j)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(pp)(2)(A)(iii) and/or 326 IAC 2-3-1 (kk)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 326 IAC 2-2-8 (b)(6)(A) and/or 326 IAC 2-3-2 (l)(6)(A)) that a “project” (as defined in 326 IAC 2-2-1(o) and/or 326 IAC 2-3-1(j)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:
- (1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
 - (2) 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.21 Sulfur Record keeping Requirements (Entire Source) [326 IAC 7-4.1-20(b)(1)]

Pursuant to 326 IAC 7-4.1-20(b)(1), the Permittee shall record and make available to IDEM, upon request, process and fuel use information pertaining to each emissions unit, process, or combustion unit identified in this section, including the following:

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- (a) Identification of the applicable limit.
- (b) The amount and type each fuel used for each facility for each calendar day of operation.
- (c) The operating scenario chosen for the U.S. Steel – Gary Works.
- (d) The hourly sulfur dioxide emission rate in pounds of sulfur dioxide per hour calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by twenty-four (24) hours.
- (e) The hourly sulfur dioxide emission rate in pounds of sulfur dioxide per MMBtu for those facilities with a pound per MMBtu limit in this rule calculated by dividing the total daily sulfur dioxide emissions in pounds of sulfur dioxide per day by the total heat input per day in MMBtu.

C.22 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]
[326 IAC 2-2][326 IAC 2-3] [40 CFR 64][326 IAC 3-8]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section C - Malfunctions Report satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

On and after the date by which the Permittee must use monitoring that meets the requirements of 40 CFR Part 64 and 326 IAC 3-8, the Permittee shall submit CAM reports to the IDEM, OAQ.

A report for monitoring under 40 CFR Part 64 and 326 IAC 3-8 shall include, at a minimum, the information required under paragraph (a) of this condition and the following information, as applicable:

- (1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- (2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- (3) A description of the actions taken to implement a QIP during the reporting period as specified in Section C - Response to Excursions or Exceedances. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

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The Permittee may combine the Quarterly Deviation and Compliance Monitoring Report and a report pursuant to 40 CFR 64 and 326 IAC 3-8.

- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) 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.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (oo) and/or 326 IAC 2-3-1 (jj)) at an existing emissions unit, 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- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (ww) and/or 326 IAC 2-3-1 (pp), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (f) The report for project at an existing emissions *unit* shall be submitted no 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 (d)(1) and (2) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

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Reports required in this part shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

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

C.23 Sulfur Dioxide (SO₂) Reporting Requirements (Entire Source) [326 IAC 7-4.1-20(b)(2)]

Pursuant to 326 IAC 7-4.1-20(b)(2), the Permittee shall submit an exception report to IDEM, OAQ, within thirty (30) days of an exceedance of the limitations in this permit that included the following:

- (a) Identification of the applicable limit or limits being exceeded.
- (b) Identification of any emissions unit exceeding the applicable limit and the dates when the limits were exceeded.
- (c) The calculated sulfur dioxide emission rate in pounds per hour for each facility exceeding the limitations for the days that the pounds per hour limitations were exceeded.
- (d) The calculated sulfur dioxide emission rate in pounds per million Btu for each combustion unit, furnace, boiler, or process operation for each facility exceeding the pounds per million Btu limitation for the days that the limitations were exceeded.
- (e) The actual daily fuel usage for each combustion unit, furnace, boiler, or process operation for each facility exceeding the limitations for the days that the limitations were exceeded.

Stratospheric Ozone Protection

C.24 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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SECTION D.1

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SECTION D.5

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SECTION D.6 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Recycling Plant

- (a) Blended Material Storage Bin Building, identified as ISB00377, constructed in 1979, including bins, feeders and conveyors, with a maximum capacity of 1,000 tons per hour, using a baghouse IS3196 as a control device and exhausting to stack IS6197.
- (b) Storage and Blending Piles, identified as ISBP0376, with fugitive emissions.
- (c) Two (2) Strands, identified as ISS10379 and ISS30381, constructed in 1958, each with 50 MMBtu per hour duct burners combusting natural gas identified as ISB001 and ISB003 and a maximum capacity of 225 tons of product per hour each, each with ignition hood burners with a combined heat input of 50 MMBtu/hr combusting natural gas, controlled by two (2) Windbox Gas Cleaning Systems IS3203 and IS3204, installed in 1996, each comprised of a Quench Reactor, Dry Venturi Scrubber, a baghouse operated in series, exhausting to Windbox stacks IS6198 and IS6199 which are equipped with VOC CEMS.
- (d) Two (2) Coolers, identified as ISC10385 and ISC30387, constructed in 1958, with a maximum capacity of 225 ton per hour each, with emissions exhausting to stacks IS6203 and IS6205 respectively.
- (e) Two (2) Strand Discharge End Areas, identified as ISS10379 and ISS0381, constructed in 1958, using two (2) baghouses as control devices, designated as IS3205 and IS3207, exhausting to stacks IS6200 and IS6202 respectively.
- (f) One (1) Cold Screen Station, identified as ISR00389, constructed in 1958, with a maximum capacity of 450 tons per hour, using a Baghouse IS3209 as a control device and exhausting to stack IS6207.
- (g) One (1) S1/S2 Conveyer System, identified as ISY00388, constructed in 1979, with a maximum capacity of 450 tons per hour, that transfers product from the coolers to the cold screening station, using a baghouse IS3208 as a control device and exhausting to stack IS6206.

The Recycling Plant is formerly known as the Number 3 Sinter Plant. Under 40 CFR 63, Subpart FFFFF, the emission units identified in (c) through (e) are considered affected facilities because they meet the definition of Sinter Plant per the Subpart FFFFF regulation.

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

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

D.6.1 Particulate Emissions Offset [326 IAC 2-3]

Pursuant to SSM 089-12880-00121, issued July 26, 2001, and in order to render the requirements of 326 IAC 2-3 (Emission Offset) not applicable, the Permittee shall comply with the following:

- (a) Natural gas usage shall be less than 95.5 million standard cubic feet (MMSCF) in the Recycling Plant (formerly Number 3 Sinter Plant) Strand Windbox reheat burners ISB001 and ISB003 per twelve (12) consecutive month period, with compliance demonstrated at the end of each month.

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Compliance with the above limit shall limit the potential to emit from the 2001 modification to less than forty (40) tons of NOx per twelve (12) consecutive month period and render 326 IAC 2-3 (Emission Offset) not applicable to the 2001 modification.

D.6.2 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, PM₁₀ emissions from the Recycling Plant (formerly No. 3 Sinter Plant) shall comply with the following:

- (a) The PM₁₀ emissions from the Recycling Plant Strand Windbox gas cleaning system stacks IS6198 and IS6199 emissions shall not exceed 0.020 grains per dry standard cubic foot and a total of 200.0 pounds per hour.
- (b) The PM₁₀ emissions from the Recycling Plant Cold Screen Station Baghouse Stack IS6207 shall not exceed 0.0100 grains per dry standard cubic foot and 10.89 pounds per hour.
- (c) The PM₁₀ emissions from the Recycling Plant S1/S2 Conveyor System Baghouse Stack IS6206 shall not exceed 0.0100 grains per dry standard cubic foot and 1.29 pounds per hour.
- (d) The PM₁₀ emissions from the Recycling Plant Coolers Stacks IS6203, IS6204 and IS6205 shall not exceed 0.0300 grains per dry standard cubic foot and a total of 272.57 pounds per hour.
- (e) The PM₁₀ emissions from the Recycling Plant Discharge Ends Area Baghouse Stacks IS6200, IS6201 and IS6202 shall not exceed 0.0100 grain per dry standard cubic foot and total of 20.57 pounds per hour.
- (f) The PM₁₀ emissions from the Recycling Plant Blended Material Storage Bins Building Baghouse Stack IS6197 shall not exceed 0.0100 grain per dry standard cubic foot and 0.43 pounds per hour.
- (g) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted.

D.6.3 Sulfur Dioxide (SO₂) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20, the SO₂ emissions from the Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed the following:

- (a) Pursuant to 326 IAC 7-4.1-20(a)(5), the SO₂ emissions from the Windbox gas cleaning systems stacks IS6198 and IS6199 shall not exceed a total of 200.0 pounds per hour.

D.6.4 Volatile Organic Compounds (VOC) Limitations [326 IAC 8-13-3]

Pursuant to 326 IAC 8-13-3(b) and (c), the Recycling Plant Windbox gas cleaning system stacks (IS6198 and IS6199) shall not exceed the VOC emission limits as follows:

- (a) During the period May 1 through September 30, the total VOC emissions (the seasonal cap) shall not exceed 256,948 pounds of VOC emissions. This is based on the following equation:

VOC (pounds) = 0.25 lb of VOC per ton sinter produced x average daily sinter production rate of 6717.59 tons per day x 153 days

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- (b) Except as provided in 326 IAC 8-13-3(b)(3), on any day from May 1 through September 30, the windbox exhaust VOC emissions (the maximum daily limit) shall not exceed 2,096 pounds of VOC emissions. This is based on the following equation:

$$\text{VOC (pounds per day)} = 0.25 \text{ lb of VOC per ton of sinter produced} \times \text{maximum actual daily sinter production rate } 8384 \text{ tons per day}$$

- (c) On any day from May 1 through September 30 when ozone levels in Lake, Porter, or LaPorte Counties are expected to exceed the national ambient air quality standard for ozone (either one (1) hour or eight (8) hour), the windbox exhaust VOC emissions (the lower daily limit) shall not exceed 1,679 pounds of VOC emissions. This is based on the following equation:

$$\text{VOC (pounds per day)} = 0.25 \text{ lb of VOC per ton sinter produced} \times \text{maximum actual daily sinter production rate of } 6716 \text{ tons per day}$$

A high ozone level day shall be predicted in accordance with item (g)(4) of this condition.

- (d) The maximum actual daily sinter production (tons per day) is equal to the maximum actual sinter produced on an operating day during the period from 1990 to 1997.
- (e) The average daily sinter production equals either of the following:
- (1) The annual average sinter production in tons divided by the annual average number of operating days in the period 1990 through 1994.
 - (2) In the event sinter production in 1990 to 1994 is not representative of the current sinter production due to factors, such as, but not limited to, routine repair, maintenance, or replacement, a source may elect to use the average actual sinter production in tons per day during a calendar year up to the year 1997, which represents current sinter production. The averaging period must include and not be less than the ozone season (May 1 through September 30).
- (f) From October 1 through April 30, windbox exhaust gas VOC emissions shall be limited to thirty-six hundredths (0.36) pound per ton of produced. The limit shall be complied with on an operating day average basis.
- (g) Pursuant to 326 IAC 8-13-4(b)(8) and an Ozone Action Plan dated August 2, 1999, the Permittee shall do the following:
- (1) Control the sinter burden oil and grease content by regulating the amount of mill scale in the burden.
 - (2) Use a continuous emissions monitoring system to ensure compliance with the applicable limits.
 - (3) Implement the following sequence of events upon discovery and initial internal notification of an actual or projected VOC emission limit, exceedance.
 - (A) Verify the exceedance.
 - (B) Determine the exceedance status: ceased or on-going.
 - (C) Implement corrective measures if a verified on-going exceedance condition exists. The feed rate of mill scale to the sinter burden from the

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dedicated mill scale bin is reduced or terminated. Incremental reductions in the mill scale feed rate may be utilized.

- (4) To predict high ozone days: the Permittee is a participant in IDEM's Partners for Clean Air Program and receives notification of Ozone Action Days from IDEM - OAQ. The Permittee will initiate the ozone action plan. A high ozone level day shall be predicted by the Permittee by using notification from IDEM, OAQ of an ozone action day.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.6.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

- (a) No later than five (5) years after the most recent valid compliance demonstration, the Permittee shall perform simultaneous sampling and analysis of both non-condensable (front half) and condensable (back half) PM₁₀ on Windbox Gas Cleaning Systems Stacks IS6198 and IS6199 for the purpose of determining compliance with Condition D.6.2(a), utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.
- (b) No later than five (5) years after the most recent valid compliance demonstration, the Permittee shall perform PM₁₀ testing on the Discharge Ends Area Baghouse Stacks IS6200, and IS6202 for the purpose of determining compliance with Condition D.6.2(e), utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.
- (c) No later than two and one-half (2.5) years after the most recent valid compliance demonstration, the Permittee shall perform PM₁₀ testing of the two (2) Coolers Stacks IS6203, and IS6205 for the purpose of determining compliance with Condition D.6.2(d), utilizing methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2.5) years from the date of the most recent valid compliance demonstration.
- (d) No later than two and one-half (2.5) years after the most recent valid compliance demonstration, the Permittee shall perform SO₂ testing on Windbox Gas Cleaning Systems Stacks IS6198, and IS6199 for the purpose of determining compliance with Condition D.6.3, utilizing methods approved by the Commissioner. This test shall be repeated at least once every two and one-half (2.5) years from the date of the most recent valid compliance demonstration.
- (e) Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

D.6.6 Particulate Matter Control

- (a) Except as otherwise provided by statute, rule or this permit the control devices as listed in (1) through (5) below shall be in operation at all times the associated processes are in operation to control particulate emissions.
 - (1) Windbox Gas Cleaning Systems each comprised of a Quench Reactor, Dry Venturi Scrubber, and a Baghouse in series, identified as emission units IS3203 and IS3204, shall be in operation at all times when the associated Strand Windbox is in operation. The baghouse is the component of the system designed to control particulate matter.

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- (2) The Cold Screen Station Baghouse, identified as control device IS3209, shall be in operation at all times when the Cold Screen Station is in operation.
 - (3) The S1/S2 Conveyor System Baghouse, identified as control device IS3208, shall be in operation at all times material is conveyed by the S1/S2 conveyor system.
 - (4) The Strand Discharge Ends Area Baghouses, identified as control devices IS3205, IS3207, shall be in operation at all times when the associated Strand Discharge Ends Area and Coolers are in operation.
 - (5) The Blended Material Storage Bins Baghouse, identified as control device IS3196, shall be in operation at all times when material is being transferred in the building.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be isolated, repaired, or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be isolated, repaired, or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.6.7 Sulfur Dioxide Control

- (a) Except as otherwise provided by statute, rule or this permit the control device as listed below shall be in operation at all times the associated processes are in operation to control sulfur dioxide emissions.
 - (1) Windbox Gas Cleaning Systems, each comprised of a Quench Reactor, a Dry Venturi, and a Baghouse in series, identified as emissions units IS3203 and IS3204, shall be in operation at all times when the associated Strand Windbox is in operation.

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

D.6.8 Visible Emissions Notations

- (a) Visible emission notations of the Strand Windbox Gas Cleaning System stacks IS6198 and IS6199, Cold Screen Station stack IS6207, Cooler stacks IS6203, and IS6205 and Discharge Ends Area stacks IS6200, and IS6202, shall be performed once per day during normal daylight operations when the Strand Windbox Gas Cleaning System, Cold Screen Station, Coolers and Discharge Ends Area are in operation. 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.

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- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program. Section C - Continuous Compliance Plan contains the Permittee's obligation with regard to the visible emission evaluation program required by this condition.

D.6.9 Parametric Monitoring

- (a) The Permittee shall record the liquid reagent flow rate of the quench reactors and limestone injection rate into the dry venturis used in conjunction with Strand Windbox Gas Cleaning Systems at least once per day when the associated Strand Windbox units are in operation. When for any one reading, the flow rate across the quench reactors or the limestone injection rate into the dry venturi is outside the normal range, the Permittee shall take a reasonable response. The normal flow rate of the quench reactors is 10 to 25 gallons per minute (gpm), and the normal limestone injection rate into the dry venturi is 400-900 pounds per hour (lbs/hr) unless a different upper-bound or lower-bound value for these ranges is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A flow rate that is outside the above mentioned ranges is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.
- (b) The Permittee shall record the pressure drop across the baghouse used in conjunction with the Windboxes at least once per day when the Windbox units are in operation. When for any one reading, the pressure drop across the baghouse is outside the range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 2.0 and 11.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response shall be considered a deviation of this permit.
- (c) The Permittee shall record the pressure drop of the baghouse used in conjunction with the Discharge Ends Area at least once per day when the Discharge Ends Area is in operation. When for any one reading, the pressure drop across the baghouse is outside the range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 3.0 and 8.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response shall be considered a deviation of this permit.
- (d) The Permittee shall record the pressure drop of the baghouse used in conjunction with the Cold Screen Station at least once per day when the Cold Screen Station is in operation. When for any one reading, the pressure drop across the baghouse is outside the range the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 3.0 and 8.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is

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outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.

- (e) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance. Section C - Continuous Compliance Plan contains the Permittee's obligation with regards to the baghouse operation, recording and maintenance required by this condition.
- (f) The instruments used for determining the pressure drop and flow rate shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months or other time period specified by the manufacturer. The Permittee shall maintain records of the manufacturer specifications, if used.

D.6.10 Scrubber Failure Detection

In the event, a scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

D.6.11 Continuous Emissions Monitoring (VOC)[326 IAC 8-13-8][326 IAC 3-5]

The Permittee shall operate the continuous emissions monitoring system (CEMS) for the measurement of VOC emissions discharged into the atmosphere from the Windbox gas cleaning system stacks IS6198 and IS6199, in accordance with 326 IAC 8-13-8, and 326 IAC 3-5.

- (a) The continuous emissions monitoring system (CEMS) shall measure VOC emission rate in pounds per hour.
- (b) The Permittee shall demonstrate compliance with Condition D.6.4 utilizing data from the VOC CEMS and 326 IAC 8-13-3(b) calculations.
- (c) The Permittee shall follow the maintenance, operating procedures, quality assurance procedures and performance specifications for the VOC CEMs in 326 IAC 3-5.
- (d) In the event of an exceedance of VOC emissions, the Permittee shall implement the corrective action plan requirements in 326 IAC 8-13-4(b)(5).

D.6.12 VOC Monitoring Downtime [326 IAC 2-7-6][326 IAC 2-7-5(3)]

Whenever the VOC continuous emission monitoring system is malfunctioning or down for repairs or adjustments for more than four (4) hours, the following method shall be used to provide information related to VOC emissions:

- (a) The Permittee shall not include additional oily scale in the burden raw materials, and
- (b) Sample and analyze the burden blend for oil and grease utilizing the methods and calculations in 326 IAC 8-13-5(d).

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

D.6.13 Record Keeping Requirements

- (a) To document the compliance status with Condition D.6.1 and pursuant to SSM 089-12880-00121, issued on July 26, 2001, the Permittee shall maintain monthly records of the natural gas usage in the Strand Windbox gas reheat burners ISB001, and ISB003.

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- (b) To document the compliance status with Condition D.6.3, the Permittee shall maintain records in accordance with Section C – Sulfur Dioxide (SO₂) Record Keeping (Entire Source).
- (c) To document the compliance status with Condition D.6.4, the Permittee shall maintain the following records:
 - (1) Records of the VOC emissions monitoring data for the period May 1 through September 30, as follows:
 - (A) The VOC emitted each day.
 - (B) The cumulative total of VOC emitted.
 - (2) The sinter produced each operating day.
 - (3) Maintain records of the VOC continuous emissions monitor system (CEMS) as required in 326 IAC 3-5.
- (d) To document the compliance status with Condition D.6.8, the Permittee shall maintain records of once per day visible emission notations of the Cooler Stacks IS6203, and IS6205 exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (e) To document the compliance status with Condition D.6.9, the Permittee shall maintain the records of the Windbox Gas Cleaning system pressure drop across the baghouse; liquid reagent flow rate of the quench reactors and limestone injection rate into the dry venturis; pressure drop across the Cold Screen Station Baghouse and pressure drop across the Discharge Ends Area baghouse during normal operation on at least a once per day basis. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).
- (f) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.6.14 Reporting Requirements

- (a) Pursuant to SSM 089-12880-00121, issued on July 26, 2001, a quarterly summary of the natural gas usage at the Strands Windbox recirculating burners per twelve (12) consecutive month period with compliance demonstrated at the end of each month to document the compliance status with Conditions D.6.1, shall be submitted not later than thirty (30) days after the end of the quarter being reported.
- (b) Pursuant to 326 IAC 8-13-8(a)(3), reports to document the compliance status with Condition D.6.4, shall be as follows:
 - (1) For VOC Continuous Emissions Monitoring System (CEMS), the following reports shall be submitted:
 - (A) A report shall be submitted within thirty (30) days of an exceedance of VOC emission limits in D.6.4 containing the following information:
 - (i) The name and location of the source.

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- (ii) The nature of the exceedance.
 - (iii) The date of the occurrence.
 - (iv) The cause of the exceedance, such as, but not limited to, production rates or characteristics of the sinter burden.
 - (v) The corrective action taken according to the corrective action plan in 326 IAC 8-13-4(b)(5).
- (B) Submit the CEM certification reports according to the procedures and schedule in 326 IAC 3-5.
- (c) A quarterly summary report to document the compliance status with condition D.6.3 shall be not later than thirty (30) days after the end of the quarter being reported. Section C – Sulfur Dioxide (SO₂) Reporting Requirements (Entire Source) contains the Permittee's obligation with regard to the reporting required by this condition.
- (d) The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official” as defined by 326 IAC 2-7-1(33).

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SECTION D.7 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Blast Furnaces

- (a) Raw materials shipped to the ore yard identified as IAOYO366, are transferred to the Highline, identified as IAHL0307, from which raw material shipments and coke are sent through the Stockhouse.
- (b) The No. 14 Blast Furnace Stockhouse, constructed in 1979, modified in 2009, with the addition of a baghouse for particulate control, identified as Blast Furnace No. 14 Stockhouse Baghouse, exhausting to stack IDSH0367, servicing Blast Furnace 14. The No 4 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 4.
- (c) The No 6 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 6. The No. 8 Blast Furnace Stockhouse constructed in 1979, controlled by dust suppression, services Blast Furnace No. 8.
- (d) No. 4 Blast Furnace, constructed in 1917, with a maximum capacity of 200 tons per hour, identified as IABF0308, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute.
 - (1) Three (3) No. 4 Blast Furnace Stoves identified as IAST0360, replaced in 1947, with a maximum heat input capacity of 350 MMBtu per hour total combusting blast furnace gas (BFG) and natural gas, exhausting to the combustion stack IA6160.
 - (2) No. 4 Blast Furnace Casthouse, identified as IABF0308, constructed in 1917, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IA3177, exhausting to casthouse roof monitor IA6010.
 - (3) One (1) Slag Pit, identified as IASP0311, with fugitive emissions.

Under 40 CFR 63, Subpart FFFFFF, the No. 4 Blast Furnace is considered as an affected facility.
- (e) No. 6 Blast Furnace, constructed in 1910, with a maximum capacity of 200 tons per hour, identified as IABFO341, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute.
 - (1) Four (4) No. 6 Blast Furnace Stoves, identified as IBST0361, replaced in 1997, with a maximum heat input capacity of 350 MMBtu per hour total, combusting Blast Furnace Gas (BFG) and natural gas exhausting to the combustion stack IB6168.
 - (2) No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.
 - (3) One (1) Slag Pit, identified as IBSP0335, with fugitive emissions.

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Under 40 CFR 63, Subpart FFFFF, the No. 6 Blast Furnace is considered as an affected facility.

- (f) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of 183 tons per hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate of 70 gallons per minute.
- (1) Four (4) No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of 325 MMBtu per hour total, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.
 - (2) No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.
 - (3) One (1) Slag Pit, identified as ICSP0363, with fugitive emissions.

Under 40 CFR 63, Subpart FFFFF, the No. 8 Blast Furnace is considered as an affected facility.

- (g) No. 14 Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute.
- (1) Three (3) No. 14 Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of 700 MMBtu per hour total, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184;
 - (2) No. 14 Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187 and fugitive emissions exhausting through the casthouse roof monitor ID6013;

Under 40 CFR 63, Subpart FFFFF, the No. 14 Blast Furnace is considered as an affected facility.

- (3) One (1) Slag Pit, identified as IDSP0371, with fugitive emissions.
- (4) Pursuant to SSM 089-20118-00121, issued on October 20, 2005, the following activities involved in the No. 14 Blast Furnace Reline Project were constructed:
 - (A) Replacement of furnace refractory lining with new and thinner refractory brick.
 - (B) Replacement of furnace shell.
 - (C) Removal and replacement of the top charging system with a new "bell-less" charging system.
 - (D) Placement of new copper staves in the mantle area of the furnace.
 - (E) Installation of copper cooling plates and a new bustle pipe.

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- (F) Repair of the checker work brick in the stoves and various structural, mechanical and electrical repairs.
 - (G) Enlargement of the slag granulator and addition of a stack.
 - (H) Changes to the casthouse and casthouse emissions control system to improve capture efficiency of hoods at the tap holes, iron troughs and runners.
 - (I) Removal and replacement of the existing system for cleaning blast furnace gas with a more efficient scrubbing system.
- (h) One (1) No. 14 Blast Furnace Slag Granulation Plant owned by U.S. Steel - Gary Works and operated by U.S. Steel - Gary Works as part of the slag processing operation. The granulation plant has a maximum capacity of 1,704,000 tons of steel mill slag per year, consisting of the following:
- (1) One (1) hot slag quenching operation, constructed in 1991, directed to a hooded exhaust stack.
 - (2) Two (2) silos, constructed in 1991, for temporary slag storage.
 - (3) Two (2) belt conveyers, constructed in January 1995.
 - (4) One (1) storage silo and loadout bay, constructed in May 1995, with a capacity of 400,000 tons per year.
- Under 40 CFR 63, Subpart FFFFF, the Blast Furnace Slag Granulation Plant is considered as an affected facility.
- (i) One (1) blast furnace gas distribution system consisting of instrumentation and valves designed to limit the maximum pressure through the distribution system by venting excess blast furnace gas to the three (3) bleeder stacks equipped with Flare No. 1 identified as BG6073, constructed before 1920, Flare No. 2, identified as BG6074 constructed before 1920 and Flare No. 4 identified as BG6075, constructed in 1974.
 - (j) One (1) iron beaching process, constructed prior to 1965, identified as IMIB0378.
 - (k) One (1) transfer ladle maintenance operation, constructed prior to 1965, identified as, IMVM0375.

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

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

D.7.1 Emission Offset Minor Limitation [326 IAC 2-3]

Pursuant to CP 089-2936-00133, issued on July 2, 1993, and in order to render the requirements of 326 IAC 2-3 (Emission Offset) not applicable, the Permittee shall comply with the following:

- (a) The total granulation plant throughput shall not exceed 1,704,000 tons per twelve (12) consecutive month period.

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D.7.2 PM and PM₁₀ Minor Limits [326 IAC 2-2]

In order render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to SPM 089-27690-00121, issued on October 5, 2009, the Permittee shall comply with the following:

- (a) The No. 14 Blast Furnace Stockhouse Baghouse shall achieve 90% capture efficiency and the exhaust from stack IDSH0367 shall not exceed 2.57 lbs of PM per hour and 2.57 lbs of PM₁₀ per hour.

Compliance with these limits shall limit the potential to emit from the 2009 modification of PM to less than twenty-five (25) and PM₁₀ to less than fifteen (15) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2009 modification.

D.7.3 Nonattainment New Source Review (NSR) Minor Limit [326 IAC 2-1.1-5]

In order render the requirements of 326 IAC 2-1.1-5 (Nonattainment New Source Review (NSR)) not applicable to SPM 089-27690-00121, issued on October 5, 2009, the Permittee shall comply with the following:

- (a) The No. 14 Blast Furnace Stockhouse Baghouse shall achieve 90% capture efficiency and the exhaust from stack IDSH0367 shall not exceed 2.19 lbs of PM_{2.5} per hour.

Compliance with these limits shall limit the potential to emit from the 2009 modification of PM_{2.5} to less than ten (10) tons per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-1.1-5 (Nonattainment New Source Review (NSR)) not applicable to the 2009 modification.

D.7.4 Particulate Emission Limitation [326 IAC 6.8-1-2(a)]

Pursuant to CP 089-1953-00133, issued on March 18, 1991, and 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate matter emissions from the slag granulation process quenching hooded exhaust stack shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

D.7.5 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, PM₁₀ emissions shall comply with the following:

- (a) The PM₁₀ emissions from the No. 4 Blast Furnace stoves Stack IA6160 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.
- (b) The PM₁₀ emissions from the No. 6 Blast Furnace stoves Stack IB6168 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.
- (c) The PM₁₀ emissions from the No. 8 Blast Furnace stoves Stack IC6175 shall not exceed 0.033 pound per MMBtu of heat input and a total of 11.70 pounds per hour.
- (d) The PM₁₀ emissions from the No. 14 Blast Furnace stoves Stack ID6184 shall not exceed 0.024 pound per MMBtu of heat input and a total of 20.40 pounds per hour.
- (e) The PM₁₀ emissions from the No. 14 Blast Furnace Casthouse Baghouse Stack ID6187 shall not exceed 0.0090 grains per dry standard cubic feet and 38.57 pounds per hour.
- (f) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

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D.7.6 Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]

(a) Pursuant to 326 IAC 6-4-2:

(1) The iron beaching and ladle maintenance generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

(A) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100(R) - U}{U}$$

Where

P = Percentage increase

R = Number of particles of fugitive dust measured at downward receptor site

U = Number of particles of fugitive dust measured at upwind or background site

(B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where

N = Fraction of fugitive dust that is respirable dust;

PR = allowable percentage increase in dust concentration above background; and

P = no value greater than sixty-seven percent (67%).

(C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.

(D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (1), (2) or (3) of this section. 326 IAC 6-4-2(4) is not federally enforceable.

(2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.

(b) Pursuant to 326 IAC 6.8-10-3 Lake County Fugitive Particulate Matter Emissions Limitations, fugitive emissions from iron beaching and ladle maintenance generating fugitive emissions shall comply with the emissions limitations in Section C.4 - Fugitive Dust Emissions.

(c) Pursuant to 326 IAC 6.8-10-3(7)(A), the PM₁₀ emissions from Blast Furnace No. 14 Stockhouse Baghouse Stack IDSH0367 shall not exceed 0.022 grain per dry standard cubic foot (dscf) and ten percent (10%) opacity.

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D.7.7 Sulfur Dioxide (SO₂) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20(a)(3) and (6), the SO₂ emissions from the No. 4 Blast Furnace Stoves IAST0360, No. 6 Blast Furnace Stoves IBST0361, No. 8 Blast Furnace Stoves ICST0362 and No. 14 Blast Furnace Stoves IDST0359 shall comply with the following:

Furnace	Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Blast Furnace No. 4 Stove Stack	0.115	40.25 total
Blast Furnace No. 6 Stove Stack	0.115	40.25 total
Blast Furnace No. 8 Stove Stack	0.115	37.38 total
Blast Furnace No. 14 Stove Stack	0.134	93.50 total
Blast Furnace No. 14 Casthouse Baghouse Stack	---	115.0

D.7.8 Carbon Monoxide (CO) Limitations [326 IAC 9-1-2(2)]

Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the No. 14 Blast Furnace IDBF0369, waste gas stream, unless the gas stream is burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator. In instances where carbon monoxide destruction is not required, carbon monoxide emissions shall be released at such elevation that the maximum ground level concentration from a single source shall not exceed twenty percent (20%) of the maximum ground one hour Indiana ambient air quality value for carbon monoxide.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.7.9 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

- (a) No later than five (5) years after the most recent valid compliance demonstration, the Permittee shall perform PM₁₀ testing on the No. 14 Blast Furnace Casthouse Baghouse Stack ID6187 for the purpose of determining compliance with Condition D.7.6, utilizing methods as listed in 326 IAC 6.8-4-1(5) or a testing method approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.
- (b) No later than five (5) years after the most recent valid compliance demonstration, the Permittee shall perform PM, PM₁₀, and PM_{2.5} testing on the No. 14 Blast Furnace Stockhouse Baghouse for the purpose of determining compliance with Condition D.7.2, D.7.3, and D.7.6(c), utilizing methods as listed in 326 IAC 6.8-4-1(5) or a testing method approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.

Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

D.7.10 Sulfur Fuel Sampling and Analysis [326 IAC 7-4-1.1(d)]

Pursuant to 326 IAC 7-4.1-2, and in order to comply with SO₂ emissions limit in Condition D.7.7, the Permittee shall perform sampling of sulfur-bearing fuels for analysis of sulfur content as specified in the most recently submitted "SO₂ Sampling and Analysis Protocol" (January 2019, submittal included as Attachment Q to the operating permit for reference). Section C - Sulfur Fuel Sampling and Analysis contains the Permittee's obligation with regard to the sampling and analysis required by this condition.

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D.7.11 Particulate Matter and CO Control [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute, rule or this permit, the baghouses for particulate control shall be in operation and control emissions at all times the associated coal processing or drop point conveyors are in operation.
- (1) Nos. 4, 6 and 8 Blast Furnace natural gas iron oxide fume suppression systems IA3177, IB3178, IC3179, shall be in operation in order minimize particulate matter emissions as follows:
- (A) The iron and slag runners at the No. 4 Blast Furnace shall be equipped with a natural gas-fired lance for fume suppression during the cast to minimize particulate matter emissions.
- (B) The iron and slag runners at the No. 6 Blast Furnace shall be equipped with a natural gas-fired lance for fume suppression during the cast to minimize particulate matter emissions.
- (C) The iron and slag runners at the No. 8 Blast Furnace shall be equipped with a natural gas-fired lance for fume suppression during the cast to minimize particulate matter emissions.
- (2) The No. 14 blast furnace Casthouse Baghouse ID3185 shall be in operation at all times during casting operations at the No. 14 Blast Furnace Casthouse is in operation.
- (3) The Blast Furnace No. 14 Stockhouse Baghouse shall be in operation at all times when material conveying and/or sizing operations at the Blast Furnace No. 14 Stockhouse are in operation.
- (4) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be isolated, repaired, or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be isolated, 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) Carbon Monoxide Emissions Control
- The Blast Furnace Gas Distribution System Flare controls GC3629, GC3628 and GC3627 and bleeder stack Flare No. 1 BG6073, Flare No. 2 BG6074 and Flare No. 4 BG6075 shall be in operation and the pilot flame shall be present at all times when the No. 14 Blast Furnace, No. 4 Blast Furnace, No. 6 Blast Furnace and No. 8 Blast Furnace are in operation in order to minimize CO emissions.

D.7.12 Fugitive Dust Control

The dust suppression used as control for the fugitive particulate emissions from the granulation plant shall be applied as often as necessary to control fugitive dust.

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

D.7.13 Visible Emissions Notations

- (a) Visible emission notations of the No. 14 Blast Furnace Casthouse Baghouse Stack ID6187, Blast Furnace No. 14 Stockhouse Baghouse Stack IDSH0367, iron beaching, quenching hooded exhaust, transferring, conveying operations, and loadout bay shall be performed once per day 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) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program. Section C - Continuous Compliance Plan contains the Permittee's obligation with regard to the visible emission evaluation program required by this condition.

D.7.14 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the No. 14 Blast Furnace Cast House baghouse ID3185, at least once per day when the No. 14 Blast Furnace Casthouse is in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 3.0 and 9.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.
- (b) The Permittee shall record the pressure drop across the Blast Furnace No. 14 Stockhouse baghouse, at least once per day when the No. 14 Blast Furnace Stockhouse processes are in operation. When for any one reading, the pressure drop across the baghouses is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 3.0 and 9.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.

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- (c) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance. Section C - Continuous Compliance Plan contains the Permittee's obligation with regard to the baghouse operation, recording and maintenance required by this condition.
- (d) The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months or other time period specified by the manufacturer. The Permittee shall maintain records of the manufacturer specifications, if used.

D.7.15 Flare Pilot Flame

- (a) In order to assure compliance with Condition D.7.11(b), the Permittee shall continuously monitor the presence of a flare pilot flame using a thermocouple or any other equivalent device to detect the presence of a flame when the No. 14 Blast Furnace, No. 4 Blast Furnace, No. 6 Blast Furnace and No. 8 Blast Furnace are in operation. For the purpose of this condition, continuous means no less often than once per minute.
- (b) If the presence of the flare pilot flame is not detected the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pilot flame reading more than one (1) minute apart is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.7.16 Record Keeping Requirements

- (a) To document the compliance status with Condition D.7.1, the Permittee shall maintain records at the plant of the total tons of slag processed in the granulation plant per twelve (12) consecutive month period.
- (b) To document the compliance status with Condition D.7.7, the Permittee shall maintain records in accordance with Section C – Sulfur Dioxide SO₂ Record Keeping (Entire Source).
- (c) To document the compliance status with Condition D.7.13, the Permittee shall maintain records of once per day visible emission notations of the No. 14 Casthouse Baghouse Stack (ID6187), the Blast Furnace No. 14 Stockhouse Baghouse exhaust stack (IDSH0367), the iron beaching facility, quenching hooded exhaust, transferring, conveying operations, and loadout bay when in operation. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) To document the compliance status with Condition D.7.14, the Permittee shall maintain the records of the once per day pressure drop of the No. 14 Casthouse Baghouse and the Blast Furnace No. 14 Stockhouse Baghouse during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).
- (e) To document the compliance status with Condition D.7.15, the Permittee shall maintain continuous records of presence of pilot flame for the flare.
- (f) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

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D.7.17 Reporting Requirements

A quarterly summary report to document the compliance status with condition D.7.1 and D.7.7 shall be submitted not later than thirty (30) days after the end of the quarter being reported.

Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

D.7.18 Volatile Organic Compounds (VOC) De Minimis [326 IAC 2-3-2(b)]

Pursuant to SSM 089-20118-00121, issued on October 20, 2005, and 326 IAC 2-3-2(b), the VOC emissions increases for the five (5) calendar year period January 2000 to December 2005 plus the net emission increase from the No. 14 Blast Furnace Reline Project resulted in an emission increase less than the VOC de minimis level (25 tons per year).

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SECTION D.8 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Number One Basic Oxygen Process (BOP) Shop

- (a) Two (2) Stations, identified as No. 1 and No. 2 Hot Metal Transfer and Desulfurization Stations. The Desulfurization Stations were originally constructed in 1981 and the Hot Metal Transfer Stations were originally constructed in 1965, and replaced in 1998. Each station consists of Hot Metal Desulfurization, SSDS0201, Hot Metal Transfer SSMT0203 and Slag Skimming SSSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (b) One (1) Flux handling system, identified as SSFH0206, constructed in 1965, used for unloading, temporary storage, and transfer of fluxing agents to the steel making vessels, with a maximum capacity of 80 tons per hour. Emissions are controlled by No. 2, No. 3, and No. 4 baghouses SS3058, SS3059, and SS3053. Nos. 2 and 3 exhaust inside the building and No. 4 discharges through stack SS6056.

- (c) Basic Oxygen Process (BOP) Vessels, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by open combustion hoods and an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (d) Two (2) gas cleaning systems, identified as SS3103 and SS3104, that process the exhaust gases from the three (3) steel making vessels consisting of three (3) quenchers, two (2) scuppers, two (2) Venturi scrubbers, two (2) separators, two (2) gas coolers fitted with internal mist eliminators and two (2) induced draft fans. Emissions exhaust through stacks SS6102 and SS6103.

- (e) CASbell/OB Lancing Stations M, D and E, include the controlled argon stirring process and blowing of oxygen to maintain temperature and chemistry. Constructed in 1981, Station M, identified as SSCM0231, Station E identified as SSCE0232, and Station D identified as SSCD0233 with a maximum capacity of 250 tons per hour each. Emissions are controlled by the CASbell/OB Lancing baghouse SS3105, exhausting through Stack SS6104 and uncaptured emissions venting to the roof monitor SS6636.

- (f) One (1) Slingot Moulding Station, including the casting of bottom-poured steel ingots, identified as SSMS0227, constructed in 1965, exhausting to the roof monitor SS6637.

- (g) Nine (9) natural gas-fired Ladle Preheaters and Dryers, identified as No. 1 through 9, with 1 through 4, constructed in 1983, 5 and 6 constructed in 1982 and 7 through 9 construction unknown. Six (6) Preheaters with a capacity of 14 MMBtu/hr each and three (3) Dryers with a capacity of 10 MMBtu/hr each, identified as SSLD0230, exhausting through Roof Monitor SS6637.

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- (h) One (1) Continuous Caster, identified as SCSC0274, constructed in 1967, including a Tundish dryer with a heating capacity of 7.0 MMBtu/hr per hour, continuously casting steel slabs with a maximum capacity of 275 tons per hour. Emissions exhaust through Roof Monitor SS6638.
- (i) One (1) fugitive emissions mitigation system at the No. 1 BOP Shop, constructed in June 2002, consisting of a capture hood system ducted to a 99% efficient baghouse with a flow rate of 11,500 acfm.
- (j) One emergency slag skimming station, with a maximum capacity of 456 tons per hour, exhausting to the roof monitor SS6636.

Under 40 CFR 63, Subpart FFFFFF, this unit is considered as an affected facility.

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

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

D.8.1 Lake County PM₁₀ and Visible Emission Requirements [326 IAC 6.8-2-38]

- (a) Pursuant to 326 IAC 6.8-2-38, PM₁₀ emissions from the No. 1 Basic Oxygen Process Shop operations shall comply with the following:
 - (1) The PM₁₀ emissions from the No. 1 BOP Shop Hot Metal Transfer and Desulfurization Stations Baghouse discharge shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 15.0 pounds per hour.
 - (2) The PM₁₀ emissions from the No. 1 BOP Shop Gas Cleaning System Stacks SS6102 and SS6103 shall not exceed 0.011 grains per dry standard cubic foot of exhaust air and a total of 46.0 pounds per hour.
 - (3) The PM₁₀ emissions from the No. 1 BOP CASBell/OB Lancing Baghouse Stack SS6104 shall not exceed 0.0070 grains per dry standard cubic foot of exhaust air and 5.10 pounds per hour.
 - (4) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.
- (b) Pursuant to 326 IAC 6.8-2-38, the visible emissions from the No. 1 Basic Oxygen Process Shop operations shall comply with the following and shall take precedence over those in 326 IAC 5-1-2 with which they conflict:
 - (1) Opacity from the Hot Metal Transfer and Desulfurization Stations baghouse stack discharge shall not exceed five percent (5%) opacity, for any three (3) minute average.
 - (2) Opacity from the No. 1 BOP Shop Roof Monitor SS6636 Operations shall not exceed twenty percent (20%) for any three (3) minute average.
 - (3) Opacity from the BOP Furnace Operations Gas Cleaning System Stacks SS6102 and SS6103 shall not exceed twenty percent (20%), for any six (6) minute average.

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D.8.2 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate emissions from the roof monitors SS6636, SS6637 and SS6638 shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

D.8.3 Sulfur Dioxide (SO₂) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20(b)(3), an emission unit shall burn natural gas only:

- (a) If it is not listed in this rule; or
- (b) under any operating condition not specifically listed in this rule.

D.8.4 Sulfur Dioxide (SO₂) Limitations Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20(a)(8), the SO₂ emissions from the Nos. 1 and 2 Hot Metal Transfer and Desulfurization Stations Baghouse shall not exceed 0.05 pounds per ton of hot metal and 28.54 pounds per hour.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.8.5 Particulate Matter Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

- (a) No later than five (5) years after the most recent valid compliance demonstration, the Permittee shall perform PM₁₀ testing on the No. 1 BOP Desulfurization Baghouse discharge for the purpose of determining compliance with Condition D.8.1(a)(1), utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.
- (b) No later than five (5) years after the most recent compliance demonstration, the Permittee shall perform PM₁₀ testing on the No. 1 BOP Gas Cleaning Systems Stacks SS6102 and SS6103 for the purpose of determining compliance with Condition D.8.1(a)(2), utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.
- (c) Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

D.8.6 Sulfur Dioxide Testing Requirements

- (a) No later than five (5) years from the date of the most recent valid compliance test, the Permittee shall perform SO₂ emission testing on the No. 1 and No. 2 Hot Metal Desulfurization Station Baghouse discharge, for the purpose of determining compliance with condition D.8.4, utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.
- (b) Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

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D.8.7 Particulate Matter Control [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute, rule or this permit, the control devices listed below shall be in operation for particulate emissions control at all times the associated process is in operation. The control devices are as follows:
- (1) The Hot Metal Desulfurization/Skimming Baghouse SS3100,
 - (2) Flux Handling System Baghouses SS3053, SS3058 and SS3059,
 - (3) BOP Gas Cleaning systems SS3103 and SS3104; and
 - (4) CASBell/OB Lancing Station Baghouse SS3105.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be isolated, repaired, or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be isolated, repaired, or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

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

D.8.8 Visible Emissions Notations

- (a) Visible emission notations of the BOP Operations Gas Cleaning System stacks SS6102 and SS6103, CASBell/OB Lancing Station Baghouse stack SS6104, and BOP Shop Roof Monitors SS6636, SS6637, and SS6638 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program. Section C - Continuous Compliance Plan contains the Permittee's obligation with regard to the visible emission evaluation program required by this condition.

D.8.9 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the CASBell/OB Lancing Stations baghouse SS3105 used in conjunction with the CASBell/OB Lancing Stations, at least once per day when the CASBell/OB Lancing Stations are in operation. When for any one

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reading, the pressure drop across the baghouse is outside the normal, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 2.0 and 10.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.

- (b) The Permittee shall record the pressure drop and flow rate of the scrubbers used in conjunction with the three (3) BOP vessels M, E, and D, at least once per day when the three (3) BOP vessels M, E, and D units are in operation. When for any one reading, the pressure drop or flow rate across the scrubbers is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a range of 50 and 90 inches of water and the normal flow rate of the scrubber is 2500 to 4500 gallons per minute (gpm) unless a different upper-bound or lower-bound value for these ranges is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A reading that is outside the above mentioned ranges for respective parameters is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.
- (c) The Permittee shall record the pressure drop across the Hot Metal Transfer and Desulfurization baghouse SS3100 used in conjunction with the No. 1 BOP Hot Metal Desulfurization stations, at least once per day when the No. 1 BOP Hot Metal Desulfurization Stations are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 2.0 and 10.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.
- (d) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance. Section C - Continuous Compliance Plan contains the Permittee's obligation with regard to the baghouse operation, recording and maintenance required by this condition.
- (e) The instruments used for determining the pressure and flow rate shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months or other time period specified by the manufacturer. The Permittee shall maintain records of the manufacturer specifications, if used.

D.8.10 Scrubber Failure Detection

In the event that a scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

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

D.8.11 Record Keeping Requirements

- (a) To document the compliance status with Condition D.8.4, the Permittee shall keep records of the monthly hot metal throughput for the No. 1 and No. 2 Hot Metal Transfer and Desulfurization Stations.
- (b) To document the compliance status with Visible Emission Notations, Condition D.8.8, the Permittee shall maintain records of once per day visible emission notations of the Hot Metal Desulfurization Baghouse Stack SS6101, the BOP Gas Cleaning System Stacks SS6102 and SS6103 the CASBell/OB Lancing Station Baghouse Stacks SS6104, and the BOP Shop Roof Monitors SS6636, SS6637, and SS6638 exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.8.9, the Permittee shall maintain records of the parametric monitoring CASBell/OB Lancing Station Baghouse SS3105 and Hot Metal Transfer and Desulfurization Baghouse SS3100 total static pressure drop, and No. 1 BOP Shop Gas Cleaning System scrubbers, pressure drop across the venturi throats and scrubber supply water flow rate once per day during normal operation. The Permittee shall include in its daily record when a pressure drop reading and/or flow rate reading is not taken and the reason for the lack of pressure drop reading and/or flow rate reading (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

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SECTION D.9 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Number Two Q-BOP Shop

- (a) Two (2) Hot Metal Transfer and Desulfurization Stations, identified as NSDS0246, constructed in 1987, with a maximum capacity of 510 tons per hour. These stations included: two (2) Hot Metal Mixers, identified as NSMM0264 and two (2) Hot Metal Mixer Heaters, identified as NSMH0251, constructed in 1973, with a maximum capacity of 255 tons per hour. The natural gas-fired mixer heaters have a heat input capacity of 10 MMBtu/hr each. Emissions from the hot metal transfer and desulfurization stations, mixers and heaters are controlled by the Hot Metal Transfer and Desulfurization Stations Baghouse NS3115, discharging through NS6144 and the uncontrolled emissions go through roof monitor NS6631.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (b) Q-Basic Oxygen Process (BOP) vessels, constructed in 1973, consisting of BOP vessel T identified as NSVT0268, vessel W, identified as NSVW0269, and vessel Y, identified as NSVY0270, with a maximum capacity of 250 tons per hour each. Primary emissions are controlled by open combustion hood and two (2) Gas Cleaning Systems, secondary emissions are controlled by the Secondary Emissions Control Baghouse NS3124, exhausting to stack NS6123, and uncontrolled emissions exhaust through Roof Monitor NS6632.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (c) Two (2) Gas Cleaning Systems, identified as NS3125 and NS3126 located in the gas cleaner facility, constructed in 1973, process the exhaust gases from the three (3) steel making vessels through three (3) quenchers, two (2) scuppers (tank like structures that remove excess quench water and solids from the gas stream), two (2) Venturi scrubbers, two (2) separators, two (2) gas coolers with mist eliminators, and two (2) induced draft fans exhausting to Stacks NS6124 and NS6125.

- (d) Three (3) Flux Bins T, W, and Y, identified as NSVT0265, NSVW0266 and NSVY0267, constructed in 1973, with a maximum capacity of 141 tons per hour each. Emissions are controlled by five (5) baghouses. Three (3) Flux Transfer Baghouses at 166' level identified as NS3112, NS3108, and NS3107, exhausting through Stacks NS6623, NS6627 and NS6628 recycling captured material back to the process; One (1) North Flux Handling Baghouse at 116' level identified as NS3109 and one (1) South Flux Handling Baghouse at 116' level identified as NS3110, exhausting through stacks NS6626 and NS6625. Uncontrolled emissions exhaust through the roof monitor NS6632.

- (e) Three (3) Ladle Metallurgical Facilities, LMF 1 identified as NSL10293, LMF 2 identified as NSL20294 were constructed in 1986 and LMF 3 identified as NSL30295, constructed in 1991 with a maximum capacity of 348 tons per hour each. Hot fume emissions from LMF 1 and 2 are controlled by Nos. 1 and 2 LMF Hot Fume Exhaust baghouses NS3135 and NS3136, exhausting through stacks NS6146 and NS6147. Material handling emissions at LMF 1 and 2 are controlled by the LMF Nos. 1 and 2 Material Handling baghouse NS3052, exhausting through stack NS6055. The LMF 3 Hot Fume Exhaust and Material Handling emissions are controlled by the LMF 3 Hot Fume and Material Handling Baghouse NS3137, exhausting to stack NS6148. All uncontrolled emissions exhaust through the roof monitor NS6634.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

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- (f) One (1) R-H Vacuum Degasser, identified as NSVD0271, constructed in 1989, with a maximum capacity of 297.1 tons of steel per hour consisting of two (2) natural gas-fired heaters, one (1) active and one (1) spare, identified as NSAB0276 and NSSB0275, with heat input capacities of 12 MMBtu per hour and 3 MMBtu per hour, respectively. Carbon monoxide and other combustible gas emissions are controlled with a flare that exhausts through Stack NS6145 and uncontrolled emissions exhaust through the Roof Monitor NS6634.
- (g) One (1) Slag Conditioning Station servicing the RH Vacuum Degasser, constructed in 1997, with a maximum capacity of 297.1 tons of steel per hour.
 - (1) PM₁₀ emissions from the material handling of slag conditioning and metallurgical agents are exhausted through the RH Vacuum Degasser Slag Conditioning Baghouse NS3207, exhausting through Stacks S-1 through S-6.
- (h) One (1) Daytank Lime Silo at the lime dumping station, identified as NSDS0250 constructed in 1971. Emissions are controlled by the Daytank Lime Silo baghouse NS3106, exhausting through the stack, NS6629.
- (i) Three (3) Continuous Casting Lines, identified as Lines A, B and C identified as, NCCA0284, NCCB0285 and NCCC0286, with a total maximum capacity of 800 tons per hour combined. Lines A and B were constructed in 1986. Line C was constructed in 1991. Emissions from the continuous casters go to the Roof Monitor NC6635.
- (j) Fourteen (14) natural gas-fired Ladle Preheaters, identified as NBLD0262, eleven (11) with a heat input capacity of 9 MMBtu per hour each and three (3) with a heat input of 10 MMBtu per hour each. Emissions go through Roof Monitor NS6633.
- (k) Two (2) Hot Metal Ladle Skimmers, identified as NSLS0248, constructed in 1973. Emissions go through Roof Monitor NS6631.
- (l) Two (2) Steel Slag Skimming Stations, consisting of slag skimmers, identified as NSS10292 and NSS20287. Both were constructed in 1973. Emissions go through Roof Monitor NS6633.
- (m) One (1) Slingot Station, identified as NSST0290, constructed in 1986. Emissions go through Roof Monitor NS6634.
- (n) Eight (8) natural gas-fired Tundish Preheaters located at the No. 2 Caster, with a heat input capacity of 6 MMBtu per hour each. Emissions go through Roof Monitor NC6635.

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

D.9.1 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2-38]

- (a) Pursuant to 326 IAC 6.8-2-38, the PM₁₀ emissions from the Number 2 Q-BOP Shop operations shall comply with the following:
 - (1) The PM₁₀ emissions from the Number 2 Q-BOP Hot Metal Transfer and Desulfurization Baghouses discharge NS6144 shall not exceed to 0.007 grains per dry standard cubic foot of exhaust air and 13.0 pounds per hour.
 - (2) The PM₁₀ emissions from the Number 2 Q-BOP Secondary Emissions Control Baghouse stack NS6123 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 27.0 pounds per hour.

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- (3) The PM₁₀ emissions from the Number 2 Q-BOP Gas Cleaning System stacks NS6124 and NS6125 shall not exceed 0.0153 grains per dry standard cubic foot of exhaust air and a total of 44.40 pounds per hour.
 - (4) The PM₁₀ emissions from the Number 2 Q-BOP North Flux Handling System Baghouse stack NS6626 shall not exceed to 0.0070 grains per dry standard cubic foot of exhaust air and 1.80 pounds per hour.
 - (5) The emissions from the Number 2 Q-BOP South Flux Handling System Baghouse stack NS6625, shall not exceed 0.0070 grains per dry standard cubic foot of exhaust air and 1.80 pounds per hour.
 - (6) The PM₁₀ emissions from the Number 2 Q-BOP LMF Number 1 Hot Fume Exhaust Baghouse Stack NS6146 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.1 pounds per hour.
 - (7) The PM₁₀ emissions from the Number 2 Q-BOP LMF Number 2 Hot Fume Exhaust Baghouse Stack NS6147 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.1 pounds per hour.
 - (8) The PM₁₀ emissions from the Number 2 Q-BOP LMF Number 3 Hot Fume Exhaust and Material Handling Baghouse Stack NS6148 shall not exceed 0.0070 grains per dry standard cubic foot of exhaust air and 2.70 pounds per hour.
 - (9) The PM₁₀ emissions from the Number 2 Q-BOP LMF Numbers 1 and 2 Material Handling Baghouse Stack NS6055, shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 3.83 pounds per hour.
 - (10) The PM₁₀ emissions from the Number 2 Q-BOP RH Vacuum Degasser Slag Conditioning Baghouse NS3207, exhausting through Stacks S-1 to S-6 shall not exceed 0.007 grains per dry standard cubic foot of exhaust air and 5.49 pounds per hour.
 - (11) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.
- (b) Pursuant to 326 IAC 6.8-2-38, the visible emissions from the Number 2 Q-BOP Shop operations shall comply with the following and shall take precedence over those in 326 IAC 5-1-2 with which they conflict:
- (1) Opacity from the Number 2 Q-BOP Hot Metal Transfer and Desulfurization Stations Baghouse stack NS6144 shall not exceed five percent (5%) for any three (3) minute average.
 - (2) Opacity from the Number 2 Q-BOP Gas Cleaning system stacks NS6124 and NS6125 shall not exceed twenty percent (20%) for any six (6) minute average.
 - (3) Opacity from the Number 2 Q-BOP Roof Monitor NS 6632 shall not exceed twenty percent (20%) for any three (3) minute average.
 - (4) Opacity from the Number 2 Q-BOP North and South Flux Handling System Baghouse stacks NS6626 and NS6625, (previously known as the flux handling

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line baghouse shall not exceed five percent (5%) for any three (3) minute average.

- (5) Opacity from the Number 2 Q-BOP Secondary Baghouse stack NS6123 shall not exceed five percent (5%) for any three (3) minute average.
- (6) Opacity from the Number 2 Q-BOP LMF No. 1 Hot Fume Exhaust Baghouse stack NS6146 shall not exceed five percent (5%) for any three (3) minute average.
- (7) Opacity from the Number 2 Q-BOP LMF No. 2 Hot Fume Exhaust Baghouse stack NS6147 shall not exceed five percent (5%) for any, three (3) minute average.

D.9.2 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate emissions from the roof monitors NS6631, NS6632, NS6633 and NS6634 and from three flux transfer baghouses NS3112, NS3108 and NS3107 exhausting through stacks NS6623, NS6627, and NS6628 shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

D.9.3 Sulfur Dioxide (SO₂) Limitations [326 IC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20(b)(3), an emission unit must burn natural gas only:

- (a) if it is not listed in 326 IAC 7-4.1-20; or
- (b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

D.9.4 Sulfur Dioxide (SO₂) Limitations – Hot Metal Transfer and Desulfurization Stations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20(a)(7), the SO₂ emissions from the No. 2 Q-BOP Shop Hot Metal Transfer and Desulfurization Stations Baghouse shall not exceed 0.05 pounds per ton of hot metal and 28.54 pounds per hour.

D.9.5 Carbon Monoxide (CO) Limitations [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2(2), no carbon monoxide shall be discharged from the Number 2 Q-BOP furnace waste gas stream, unless the gas stream is burned in one of the following: a direct-flame afterburner, boiler or recuperative incinerator. In instances where carbon monoxide destruction is not required, carbon monoxide emissions shall be released at such elevation that the maximum ground level concentration from a single source shall not exceed twenty percent (20%) of the maximum ground one hour Indiana ambient air quality value for carbon monoxide.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.9.6 Particulate Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

- (a) No later than five (5) years from the date of the most recent compliance demonstration, the Permittee shall perform PM₁₀ testing on the No. 2 Q-BOP Hot Metal Transfer and Desulfurization Stations Baghouse discharge for the purpose of determining compliance with Condition D.9.1(a)(1), utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.
- (b) No later than five (5) years from the date of the most recent compliance demonstration, the Permittee shall perform PM₁₀ testing on the No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125 for the purpose of determining compliance with Condition

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D.9.1(a)(3), utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.

- (c) No later than five (5) years from the date of the most recent compliance demonstration, the Permittee shall perform PM₁₀ testing on the No. 2 Q-BOP Secondary Emissions Baghouse Stack NS6123 for the purpose of determining compliance with Condition D.9.1(a)(2), utilizing methods approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of the most recent valid compliance demonstration.
- (d) Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.

D.9.7 Particulate Matter Control [326 IAC 2-7-6(6)]

- (a) Except as otherwise provided by statute, rule or this permit, the control devices listed below shall be in operation for particulate emissions control at all times the associated operations at the No. 2 Q-BOP Shop are in operation. The control devices are as follows:
 - (1) Hot Metal Transfer and Desulfurization Baghouse NS3115
 - (2) No. 2 Q-BOP Secondary Emissions Control Baghouse NS3124
 - (3) The two (2) No. 2 Q-BOP Gas Cleaning Systems NS3125 and NS3126
 - (4) No. 1 LMF Hot Fume Exhaust Baghouse NS3135
 - (5) No. 2 LMF Hot Fume Exhaust Baghouse NS3136
 - (6) No. 1 and No. 2 LMF Material Handling Baghouse NS3052
 - (7) No. 3 LMF Hot Fume and Material Handling Baghouse NS3137
 - (8) No. 2 Q-BOP North Flux Handling System Baghouse NS3109
 - (9) No. 2 Q-BOP South Flux Handling System Baghouse NS3110
 - (10) The three (3) flux transfer baghouses NS3112, NS3108 and NS3107
 - (11) No. 2 Q-BOP RH Vacuum Degasser Slag Conditioning Baghouse NS3207
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be isolated, repaired, or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be isolated, repaired, or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.9.8 Carbon Monoxide (CO) Control

The R-H Vacuum Degasser Flare NS6145 shall be in operation at all times the R-H Vacuum Degasser is in operation to control the CO emissions.

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D.9.9 Sulfur Dioxide (SO₂) Emissions

In order to determine compliance with Conditions D.9.4, the Permittee shall determine SO₂ emissions from the hot metal transfer and desulfurization stations (NSDS0246) according to the following formula:

$$S = (0.05 \text{ lb SO}_2/\text{ton} \cdot Q1) / 24 \text{ hr/day}$$

Where:

S = lb/hr of sulfur dioxide emissions

Q1 = NSDS0246 (hot metal transfer and desulfurization stations) hot metal throughput (ton/day)

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

D.9.10 Visible Emissions Notations

- (a) Visible emission notations of the Desulfurization Stations Baghouse stack NS6144, Secondary Emissions Control Baghouse stack NS6123, No. 2 Q-BOP Gas Cleaning System stacks NS6124 and NS6125, LMF 3 Hot Fume and Material Handling Baghouse stack NS6148, No. 2 Q-BOP North Flux Handling System Baghouse stack NS6626, No. 2 Q-BOP South Flux Handling System Baghouse stack NS6625, Three (3) flux transfer baghouses stacks NS6623, NS6627, and NS6628, No. 2 Q-BOP RH Vacuum Degasser Slag Conditioning Baghouse Stacks S-1 through S-6, and the No. 2 Q-BOP Shop Roof Monitors NS6631, NS6632, NS6633 and NS6634 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.
- (f) The Permittee shall comply with the most current Continuous Compliance Plan visible emission evaluation program. Section C - Continuous Compliance Plan contains the Permittee's obligation with regard to the visible emission evaluation program required by this condition.

D.9.11 Parametric Monitoring

- (a) The Permittee shall record the pressure drop across the No. 2 Q-BOP Secondary Emissions Control baghouse NS3124 used in conjunction with the secondary emissions from the three (3) Q-BOP vessels T, W, and Y at least once per day, when any of the three (3) Q-BOP vessels T, W, and Y are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 2.0

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and 10.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.

- (b) The Permittee shall record the pressure drop across the venturi scrubber throats and scrubber total supply water flow rate of the No. 2 Q-BOP Gas Cleaning Systems scrubbers NS3125 and NS3126 used in conjunction with the 3 No. 2 Q-BOP vessels at least once per day when either the three (3) Q-BOP vessels T, W, and Y units is operating. For each scrubber system, when for any one reading across the venturi scrubber throats is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 50.0 and 70.0 inches of water and the normal flow rate of the scrubber is 2,000 to 4,500 gallons per minute (gpm) unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A reading that is outside the above mentioned ranges for respective parameters is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.
- (c) The Permittee shall record the pressure drop across the Hot Metal Desulfurization baghouse NS3115 used in conjunction with the No. 2 Q-BOP Hot Metal Desulfurization stations and mixers, at least once per day when the desulfurization stations and mixers are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 2.0 and 10.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation of this permit.
- (d) The Permittee shall comply with the most current Continuous Compliance Plan for the baghouse operation, recording and maintenance. Section C - Continuous Compliance Plan contains the Permittee's obligation with regard to the baghouse operation, recording and maintenance required by this condition.
- (e) The instrument used for determining the pressure and flow rate shall comply with Section C – Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated or replaced at least once every six (6) months or other time period specified by the manufacturer. The Permittee shall maintain records of the manufacturer specifications, if used.

D.9.12 Scrubber Failure Detection

In the event that a scrubber failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

D.9.13 Flare Pilot Flame

- (a) In order to assure compliance with Condition D.9.8, the Permittee shall continuously monitor the presence of a flare pilot flame using a thermocouple or any other equivalent

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device to detect the presence of a flame when the R-H Vacuum Degasser is in operation. For the purpose of this condition, continuous means no less often than once per minute.

- (b) If the presence of the flare pilot flame is not detected the Permittee shall take a reasonable response. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pilot flame reading more than one (1) minute apart is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.9.14 Record Keeping Requirements

- (a) To document the compliance status with Condition D.9.4, the Permittee shall keep records of the monthly hot metal throughput for the No. 1 and No. 2 Hot Metal Desulfurization Stations.
- (b) To document the compliance status with Condition D.9.10, the Permittee shall maintain the records of once per day visible emission notations of the Hot Metal Transfer and Desulfurization Stations baghouse discharge NS6144, No. 2 Q-BOP Secondary Emissions Control Baghouse Stack NS6123, No. 2 Q-BOP Gas Cleaning System Stacks NS6124 and NS6125, the LMF 3 Hot Fume and Material Handling Baghouse stack NS6148, No. 2 Q-BOP North Flux Handling System Baghouse stack NS6626, No. 2 Q-BOP South Flux Handling System Baghouse stack NS6625, three (3) flux transfer baghouses stacks NS6623, NS6627, and NS6628, No. 2 Q-BOP RH Vacuum Degasser Slag Conditioning Baghouse Stacks S-1 through S-6 exhausts, and the No. 2 Q-BOP Shop Roof Monitors NS6631, NS6632, NS6633 and NS6634. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.9.11, the Permittee shall maintain records of the once per day of the pressure drop of the No. 2 Q-BOP Secondary Emissions Control baghouse NS3124, pressure drop across the venturi scrubber throats and supply water flow rate of the No. 2 Q-BOP Gas cleaning systems scrubbers NS3125 and NS3126, pressure drop of the Hot Metal Transfer and Desulfurization baghouse NS3115, during normal operation. The Permittee shall include in its daily record when a pressure drop reading and/or flow rate reading is not taken and the reason for the lack of pressure drop reading and/or flow rate reading (e.g. the process did not operate that day).
- (d) To document the compliance status with Condition D.9.13, the Permittee shall maintain continuous records of presence of pilot flame for the flare.
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

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SECTION D.10 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Hot Rolling Mill

- (a) Four (4) reheat furnaces Nos. 1, 2, 3 and 4, identified as RMF10500, RMF20501, RMF30502 and RMF40503 commenced operation in 1967, with heat input capacity of 600 MMBtu per hour each. Each furnace is equipped to combust natural gas with emissions exhausting through Stacks RM6500, RM6501, RM6502 and RM6503.
- (b) Two (2) waste heat boilers Nos. 1 and 2, identified as RB1B0508 and RB2B0509, commenced operation in 1967, with a heat input capacity of 226 MMBtu per hour each. The heat input capacity from fuel from these boilers is derived from a combination of waste heat ducted from the reheat furnaces and the combustion of natural gas. Emissions exhaust through the waste heat boiler stacks HB6504 and HB6505.
- (c) One (1) 84-inch Hot Strip Mill, identified as RMV00504, commenced operation in 1967, with a maximum capacity of 856 tons per hour, 5 roughing mills and a 7-stand finishing mill with fugitive emissions through a Roof Monitor RM6630.

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

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

D.10.1 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2-38]

- (a) Pursuant to 326 IAC 6.8-2-38, PM₁₀ emissions from the 84" Hot Strip Mill Waste Heat Boilers Nos. 1 and 2 shall comply with the following:
 - (1) The PM₁₀ emissions from the 84" Hot Strip Mill Waste Heat Boiler No. 1 Stack HB6504 shall not exceed 0.043 pound per MMBtu of heat input and 10.0 pounds per hour.
 - (2) The PM₁₀ emissions from the 84" Hot Strip Mill Waste Heat Boiler No. 2 Stack HB6505 shall not exceed 0.043 pound per MMBtu of heat input and 10.0 pounds per hour.
- (b) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.10.2 Sulfur Dioxide (SO₂) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20, SO₂ emissions from the Reheat Furnace Nos. 1, 2, 3 and 4, RMF10500, RMF20501, RMF30502 and RMF40503 and Waste Heat Boilers Nos. 1 and 2, RB1B0508 and RB2B0509 shall comply with the following:

- (a) Pursuant to 326 IAC 7-4.1-20(a)(4)(A) and (B):

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Emission Unit Operating Scenarios		Emission Limit lbs/MMBtu	Emission Limit lbs/hr
Waste Heat Boiler Nos. 1 and 2	NA	0.260	58.8 each
Continuous Reheat Furnace Nos. 1, 2, 3 and 4	When four (4) furnaces are operating	0.182	436.5 total
	When three (3) furnaces are operating	0.243	436.5 total
	When two (2) furnaces are operating	0.354	436.5 total
	When one (1) furnace is operating	0.728	436.5 total

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.10.3 Lake County PM10 Emissions

Compliance with the PM10 limit in Condition D.10.1(a) shall be determined with the following equation:

For PM10 Emissions limit in pounds per hour:

$$\text{NG PM10 Emissions (lb/hr)} = \text{NG usage (MMCF/day)} \times \text{NG PM10 EF (lb/MMCF)} \times 1 \text{ day/24 hours}$$

For PM10 Emissions limit in pound per MMBtu:

$$\text{NG PM10 Emissions (lb/MMBtu)} = \text{NG PM10 EF (lb/MMCF)} / \text{NG heating value (MMBTU/MMCF)}$$

Where:

NG = pertains to natural gas

EF = emission factors, using Emission Factors from AP-42, U.S. EPA FIRE, and U.S. Steel Gary Works Annual Emission Statement Report

D.10.4 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

Pursuant to 326 IAC 7-4.1-2, and in order to comply with SO2 emissions limit in Condition D.10.2, the Permittee shall perform sampling of sulfur-bearing fuels for analysis of sulfur content as specified in the most recently submitted "SO2 Sampling and Analysis Protocol" (January 2019, submittal included as Attachment Q to the operating permit for reference). Section C - Sulfur Fuel Sampling and Analysis contains the Permittee's obligation with regard to the sampling and analysis required by this condition.

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

D.10.5 Record Keeping Requirements

- (a) To document the compliance status with Condition D.10.2, the Permittee shall maintain records in accordance with Section C - Sulfur Dioxide (SO₂) Record Keeping Requirements (Entire Source).
- (b) To document the compliance status with Condition D.10.1, the Permittee shall maintain records and make available to IDEM, upon request, process and fuel use information

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pertaining to each emissions unit, process, or combustion unit identified in this section, including the following:

- (1) Identification of the applicable limit.
 - (2) The amount and type of each fuel used for each facility for each calendar day of operation.
 - (3) The PM10 emission rate in pounds per hour (combined for all fuels).
 - (4) The PM10 emission rate in pounds per MMBtu (combined for all fuels).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.10.6 Reporting Requirements

A quarterly summary report to document the compliance status with condition D.10.2 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C – Sulfur Dioxide SO₂ Reporting Requirements (Entire Source) contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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SECTION D.11 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Continuous Pickling Lines

- (a) One (1) 84-inch Pickle Line, the North Continuous Pickle Line, identified as HWPO0625, constructed in 1968, with a maximum capacity of 314 tons per hour consisting of four (4) pickle tanks and two (2) rinse tanks (hot and cold). Emissions at this pickle line are controlled by a fume exhaust scrubber, HW3545 exhausting to stack HW6525.
- (b) One (1) 80-inch Pickle Line, the South Continuous Pickle Line, identified as HMPO0589, constructed in 1948, with a maximum capacity of 91 tons per hour, consisting of three (3) pickle tanks and two (2) rinse tanks (hot and cold). Emissions are controlled by a fume exhaust scrubber, HM3540, exhausting to stack HM6520.

Under 40 CFR 63, Subpart CCC, these units are considered affected facilities.

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

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

D.11.1 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate matter emissions from the pickle lines shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

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SECTION D.12 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Sheet Products Division

(a) North Sheet Mill

- (1) One (1) 5-Stand Cold Reduction Mill, identified as H5M50637, constructed in 1964, with a maximum capacity of 400 tons per hour, consisting of 5 Mill Stands. Emissions are controlled by fume collection H53547, exhausting to Stack H56527.
- (2) Twenty-six (26) 4-Stack A Box Annealing Furnaces and 50 bases, identified as HTAF0813 through HTAF0838, constructed in 1964, with a heat input capacity of 12 MMBtu per hour each. These furnaces are indirect fired with emissions exhausting through vent pipes HT6530 through HT6555.

Under 40 CFR 63, Subpart DDDDD, these are considered existing process heaters.
- (3) One (1) 80-inch temper mill, constructed in 1964, with a maximum capacity of 250 tons per hour, with fugitive emissions.
- (4) One (1) 80-inch Recoil Line, constructed in 1964, with a maximum capacity 120 tons per hour, with fugitive emissions.

(b) South Sheet Mill

- (1) Seventeen (17) 8-Stack A Box Annealing furnaces and 66 bases, identified as HXBA0560 through HXBA0576, constructed in 1948. Eleven (11) furnaces have a heat input capacity of 15 MMBtu per hour each and the remaining six (6) are rated at 18 MMBtu per hour each. Emissions from these furnaces exhaust through the Roof Monitor HX6003.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.
- (2) One (1) 2-Stand Temper Mill, identified as H2M00579, constructed in 1974, with a maximum capacity of 89 tons per hour, with fugitive emissions through Roof Monitor H26004.
- (3) One (1) No. 6 East Galvanizing Line, constructed in 1962, with a maximum capacity of 48 tons an hour, with one (1) annealing furnace, identified as H6F10527, with a heat input of 45 MMBtu per hour and emissions through stack H66516. Also, contains one (1) Galvanneal Furnace identified as HF20529 with a heat input capacity of 20.0 MMBtu per hour and emissions exhausting through Roof Monitor H66006.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.
- (4) Two (2) hydrogen atmosphere batch annealing furnaces, with a total heat input capacity of 10.26 MMBtu per hour, constructed in 1997, consisting of three (3) fixed bases and two (2) movable cooling hoods, exhausting to the indoors.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

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- (5) One (1) 84-inch Hot Roll Temper Mill, constructed in 1967, with a maximum capacity of 124 tons per hour, with fugitive emissions.
- (6) One (1) coil prep line, constructed in 1968, with a maximum capacity of 73 tons per hour, with fugitive emissions.

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

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

D.12.1 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate emissions from the North Sheet Mill: 5-Stack Cold Reduction Mill Stack H56527, Twenty-six (26) 4-Stack A Box Annealing Furnaces vent pipes HT6530 through HT6555, and the South Sheet Mill: No. 6 East Galvanize Line Stack H66516, Seventeen (17) 8-Stack A Box Annealing furnaces Roof Monitor HX6003, the Galvanneal Furnace Roof Monitor H66006, Two (2) hydrogen atmosphere batch annealing furnaces shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

D.12.2 Nitrogen Dioxide (NO_x) Emissions Offset Limitations [326 IAC 2-3]

Pursuant to CP 089-8606-00121, issued on October 20, 1997, and in order to render the requirements of 326 IAC 2-3 (Emission Offset) not applicable, the Permittee shall comply with the following:

- (a) The natural gas usage in the two (2) hydrogen atmosphere batch annealing furnaces shall not exceed 37.2 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

Compliance with the above limit shall limit the potential to emit to less than forty (40) tons of NO_x per twelve (12) consecutive month period and render 326 IAC 2-3 (Emission Offset) not applicable.

D.12.3 Sulfur Dioxide (SO₂) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20(b)(3), an emission unit must burn natural gas only:

- (a) if it is not listed in 326 IAC 7-4.1-20; or
- (b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

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

D.12.4 Record Keeping Requirements

- (a) Pursuant to MSM 089-8606-00121, issued on October 20, 1997 and to document the compliance status with Condition D.12.2 the Permittee shall maintain monthly records of the natural gas usage in the two (2) hydrogen atmosphere batch annealing furnaces.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.12.5 Reporting Requirements

- (a) Pursuant to MSM 089-8606-00121, issued on October 20, 1997, and to document the compliance status with Condition D.12.2 the Permittee shall submit not later than thirty (30) days after the end of the quarter being reported, the hydrogen atmosphere batch annealing furnaces monthly natural gas usage.

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- (b) Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition.
- (c) The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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SECTION D.13 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Tin Division

- (a) One (1) 6-Stand Cold Reduction Mill, identified as TRM00709, constructed in 1967, with a maximum capacity of 150 tons per hour. Emissions are controlled by a mist eliminator TR3600, exhausting to stack TR6575.
- (b) One (1) cleaning line, identified as No. 7 Cleaning Line, constructed in 1967, with a maximum capacity of 80 tons per hour. Fumes are controlled by a fume scrubber exhausting to a stack (TC6599).
- (c) One (1) Annealing Line, identified as No. 2 Continuous Anneal Line, constructed in 1959, containing an annealing furnace, identified as T2AF0799, with a maximum heat input capacity of 35 MMBtu per hour. Emissions exhaust to stack T26610. The No. 2 Continuous Anneal Line has a cleaning section with fumes collected in a fume scrubber exhausting through a stack (TA6600).

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.
- (d) Five (5) 4-Stack A Box Annealing Furnaces and 12 bases, identified as TXAF0765 through TXAF0769, constructed in 1968. All furnaces have a heat input of 10.5 MMBtu per hour each. Emissions exhaust to stacks TX6580 through TX6584.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.
- (e) One (1) 48-inch Temper Mill, constructed in 1958, with a maximum capacity of 150 tons per hour, with fugitive emissions. This unit has a dust filter that exhausts inside the building.
- (f) One (1) Double Reduction Mill with two (2) mill stands, identified as TDMO0742, constructed in 1963, with a maximum capacity of 75 tons per hour. Emissions are controlled by a mist eliminator D3603, exhausting to stack TD6595.
- (g) One (1) No. 1 Tin Free Steel Line (TFS), constructed in 1950, with a maximum capacity of 24 tons per hour. The chemical treatment rinse section, TFR00753 exhaust through stack TF6597 and all other fugitive emissions from the line to roof monitor TF6661.
- (h) One (1) No. 5 Electrolytic Tinning Line (5 ETL), constructed in 1957, and with a maximum capacity of 50 tons per hour. The No. 5 ETL contains a Plating and Chemical Treatment Tank, identified as TFR00777, with emissions through a voluntary fume exhaust scrubber system (TE6598).
- (i) One (1) No. 6 Electrolytic Tinning Line (6 ETL), constructed in 1966, with a maximum capacity of 120 tons per hour. The 6 ETL also contains a Plating and Chemical Treatment Tank, identified as T6H00786, with emissions through a voluntary fume exhaust scrubber system (TE6598).
- (j) One (1) Tin Anode Caster, constructed in 1965, with a maximum capacity of 0.57 tons per hour, with fugitive emissions through roof monitor.
- (k) One (1) Tin Mill Recoil and inspection Line, constructed in 1967, with a maximum capacity of 14.8 tons per hour.

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- (l) One (1) 45" Side Trimmer, constructed in 1961, with fugitive emissions through the roof monitor.

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

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

D.13.1 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), the particulate emissions from the 6-Stand Cold Reduction Mill Stack TR6575, the one (1) Double Reduction Mill Stack TD6595, the No. 1 Tin Free Steel Line Chemical Treatment Rinse Stack TF6597, the No. 2 Continuous Anneal Line stack T26610, and the Five (5) 4-Stack A Box Annealing Furnaces stacks TX6580 through TX6584 shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

D.13.2 Sulfur Dioxide (SO₂) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20(c)(3), an emission unit must burn natural gas only:

- (a) if it is not listed in 326 IAC 7-4.1-20; or
- (b) under an operating condition not specifically listed in 326 IAC 7-4.1-20.

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

D.13.3 Record Keeping Requirements

- (a) In order to document the compliance status with conditions D.13.1 and D.13.2, the Permittee shall maintain records of the natural gas usage of the furnaces.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

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SECTION D.14 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

No. 4 Boiler House

- (a) Two (2) Boilers, No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas, and fuel oil, with a maximum heat input of 500 MMBtu per hour, each, and exhausting through Stacks O46268 and O46269, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler, No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 500 MMBtu per hour, exhausting through Stack O46270.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

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

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

D.14.1 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, the PM₁₀ emissions from the No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks O46268, O46269 and O46270 shall comply with the following:

- (a) The PM₁₀ emissions from the Number 4 Boiler House Boilers, when one or two boilers are operating shall not exceed 0.054 pounds per MMBtu of heat input and a total of 54.1 pounds per hour.
- (b) The PM₁₀ emissions from the Number 4 Boiler House Boilers, when three boilers are operating shall not exceed 0.036 pounds per MMBtu of heat input and a total of 54.1 pounds per hour.
- (c) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.14.2 Sulfur Dioxide (SO₂) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20, the SO₂ emissions from the No. 4 Boiler House Boilers Nos. 1, 2 and 3 Stacks O46268, O46269 and O46270 shall not exceed the following limitations:

- (a) Pursuant to 326 IAC 7-4.1-20(a)(2):

Emission Limit lbs/hr	Emission Limit lbs/MMBtu	Emission Limit lbs/hr
When three (3) boilers are operating:	0.353	529.0 total
When two (2) boilers are operating:	0.529	529.0 total
When one (1) boiler is operating:	1.058 total	529.0 total

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Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.14.3 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

Pursuant to 326 IAC 7-4.1-2, and in order to comply with SO₂ emissions limit in Condition D.14.2, the Permittee shall perform sampling of sulfur-bearing fuels for analysis of sulfur content as specified in the most recently submitted "SO₂ Sampling and Analysis Protocol" (January 2019, submittal included as Attachment Q to the operating permit for reference). Section C - Sulfur Fuel Sampling and Analysis contains the Permittee's obligation with regard to the sampling and analysis required by this condition.

D.14.4 Lake County PM₁₀ Emissions

Compliance with the PM₁₀ limit in Condition D.14.1 shall be determined with the following equation:

For PM₁₀ Emissions limit in pound per hour:

NG PM₁₀ Emissions (lb/hr) = NG usage (MMCF/day) x NG PM₁₀ EF (lb/MMCF) x 1 day/24 hours

FO PM₁₀ Emissions (lb/hr) = FO usage (kgal/day) x FO PM₁₀ EF (lb/kgal) x 1 day/24 hours

BFG PM₁₀ Emissions (lb/hr) = BFG input (MMBtu/day) x BFG PM₁₀ EF (lb/MMBtu) x 1 day/24 hours

Combined Fuel Total PM₁₀ Emissions (lb/hr) = NG PM₁₀ Emissions (lb/hr) + FO PM₁₀ Emissions (lb/hr) + BFG PM₁₀ Emissions (lb/hr)

For PM₁₀ Emissions limit in pound per MMBtu:

NG PM₁₀ Emissions (lb/MMBtu) = NG PM₁₀ EF (lb/MMCF) / NG heating value (MMBTU/MMCF)

FO PM₁₀ Emissions (lb/MMBtu) = FO PM₁₀ EF (lb/kgal) / FO heating value (MMBTU/kgal)

BFG PM₁₀ Emissions (lb/MMBtu) = BFG PM₁₀ EF (lb/MMCF) / BFG heating value (MMBTU/MMCF)

Combined Fuel Total PM₁₀ Emissions (lb/MMBtu) = [NG Emissions (lb/MMBTU) x NG Usage (MMBTU/day) + FO Emissions (lb/MMBTU) x FO Usage (MMBTU/day) + BFG Emissions (lb/MMBTU) x BFG Usage (MMBTU/day)] / [NG Usage (MMBTU/day) + FO Usage (MMBTU/day) + BFG Usage (MMBTU/day)]

Where:

NG = pertains to natural gas

FO = pertains to fuel oil

BFG = pertains to blast furnace gas

EF = emission factors, using Emission Factors from AP-42, U.S. EPA FIRE and U.S. Steel Gary Works Annual Emission Statement Report

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

D.14.5 Visible Emission Notations

When Boilers No. 1 and/or No. 2 combust fuel oil or any combination of fuel oil and natural gas or blast furnace gas:

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- (a) Visible emission notations of the Boilers No. 1 stack O46268 and/or No. 2 stack O46269 shall be performed once per day 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) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.14.6 Record Keeping Requirements

- (a) To document the compliance status with Condition D.14.2, the Permittee shall maintain records in accordance with Section C - Sulfur Dioxide (SO₂) Record Keeping Requirements (Entire Source).
- (b) To document the compliance status with Condition D.14.1, the Permittee shall maintain records and make available to IDEM, upon request, process and fuel use information pertaining to each emissions unit, process, or combustion unit identified in this section, including the following:
 - (1) Identification of the applicable limit.
 - (2) The amount and type of each fuel used for each facility for each calendar day of operation.
 - (3) The hourly PM10 emission rate in pounds per hour (combined for all fuels).
 - (4) The hourly PM10 emission rate in pounds per MMBtu (combined for all fuels).
- (d) To document the compliance status with Conditions D.14.5, the Permittee shall maintain records of the once per day visible emission notations when Boilers No. 1 and/or No. 2 combust fuel oil or any combination of fuel oil and natural gas or blast furnace gas.
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.14.7 Reporting Requirements

A quarterly summary report to document the compliance status with conditions D.14.2 shall be submitted in accordance with Section C – Sulfur Dioxide Reporting Requirements (Entire Source) of this permit. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. This report does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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SECTION D.15 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Turboblower Boiler House (TBBH)

- (a) Three (3) Boilers No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour, exhausting through Stack OT6275.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

- (c) One (1) Boiler No. 6, identified as OTB60467, constructed after August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276, with a continuous emissions monitoring system for NOx on the stack.

Under 40 CFR 60, Subpart D, this unit is considered an affected facility.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

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

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

D.15.1 Lake County PM₁₀ Emissions Requirements [326 IAC 6.8-2-38]

Pursuant to 326 IAC 6.8-2-38, the PM₁₀ emissions from the TBBH Boilers Nos. 1, 2, 3, 5 and 6 Stacks OT6271, OT6272, OT6273, OT6275 and OT6276 shall comply with the following:

- (a) The PM₁₀ emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when four boilers are operating, shall not exceed 0.037 pound per MMBtu of heat input each and a total of 61.0 pounds per hour.
- (b) The PM₁₀ emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when three boilers are operating, shall not exceed 0.050 pound per MMBtu of heat input each and a total of 61.0 pounds per hour.
- (c) The PM₁₀ emissions from the TBBH Boilers Nos. 1, 2, 3 and 5: OT6271, OT6272, OT6273 and OT6275, when one or two boilers are operating, shall not exceed 0.074 pound per MMBtu of heat input each and a total of 61.0 pounds per hour.
- (d) The PM₁₀ emissions from the TBBH Boiler No. 6 Stack OT6276, shall not exceed 0.039 pound per MMBtu of heat input and 27.80 pounds per hour.

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- (e) Each emission limit applies to one (1) stack serving one (1) facility unless otherwise noted. The emissions limitations apply to one (1) stack serving the multiple units specified when the facility description notes stack serving, and to each stack of multiple stacks serving multiple facilities when the facility description notes each stack serving.

D.15.2 Sulfur Dioxide (SO₂) Limitations [326 IAC 7-4.1-20]

Pursuant to 326 IAC 7-4.1-20, the SO₂ emissions from each of the TBBH Boilers Nos. 1, 2, 3, 5 and 6 Stacks OT6271, OT6272, OT6273, OT6275 and OT6276 shall not exceed the following limitations:

- (a) Pursuant to 326 IAC 7-4.1-20(a)(1)(A), the sulfur dioxide emissions from the Nos. 1, 2, 3 and 5 Boiler stacks shall not exceed the following:

Emission Limit lbs/hr	Emission Limit lbs/MMBtu	Emission Limit lbs/hr
When four (4) boilers are operating:	0.427	700.0 total
When three (3) boilers are operating:	0.569	700.0 total
When two (2) or less boilers are operating:	0.854	700.0 total

- (b) Pursuant to 326 IAC 7-4.1-20(a)(1)(B), the sulfur dioxide emissions from the No. 6 Boiler stacks shall not exceed 0.115 lbs/MMBtu and 81.7 lbs/hr.

D.15.3 PSD Nitrogen Oxides (NO_x) Emission Offset Limitations [326 IAC 2-2][326 IAC 2-3]

Pursuant to MSM 089-10160-00121, issued on January 13, 2000, and in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable, the Permittee shall comply with the following:

- (a) The NO_x emissions from combusting blast furnace gas and natural gas in Boiler No. 6 shall not exceed 432.21 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) Blast furnace gas and natural gas shall be the only fuels combusted in TBBH Boiler No. 6, unless the Permittee receives prior approval from IDEM, OAQ to combust fuel oil.

Compliance with these emission limits will ensure that the potential to emit from the 2000 modification is less than twenty-five (25) tons of NO_x per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-3 (Emission Offset) not applicable to the 2000 modification.

D.15.4 Nitrogen Oxides (NO_x) Limitations [326 IAC 12][40 CFR 60, Subpart D]

Pursuant to MSM 089-10160-00121, issued on January 13, 2000, 326 IAC 12, and 40 CFR 60, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators for Which Construction or Modification is Commenced After August 17, 1971), NO_x emissions from the Turboblower Boiler House (TBBH) Boiler No. 6 Stack OT6276 shall not exceed 0.20 pound per MMBtu of heat input, when the boiler is burning natural gas only.

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Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.15.5 Lake County PM10 Emissions

Compliance with the PM10 limit in Condition D.15.1 shall be determined with the following equation:

For PM10 Emissions limit in pound per hour:

NG PM10 Emissions (lb/hr) = NG throughput/usage (MMCF/day) x NG PM10 EF (lb/MMCF) x 1 day/24 hours

BFG PM10 Emissions (lb/hr) = BFG input (MMBtu/day) x BFG PM10 EF (lb/MMBtu) x 1day/24 hours

Combined Fuel Total PM10 Emissions (lb/hr) = NG PM10 Emissions (lb/hr) + BFG PM10 Emissions (lb/hr)

For PM10 Emissions limit in pound per MMBtu:

NG PM10 Emissions (lb/MMBtu) = NG PM10 EF (lb/MMCF) / NG heating value (MMBTU/MMCF)

BFG PM10 Emissions (lb/MMBtu) = BFG PM10 EF (lb/MMCF) / BFG heating value (MMBTU/MMCF)

Combined Fuel Total PM10 Emissions (lb/MMBtu) = [NG Emissions (lb/MMBTU) x NG Usage (MMBTU/day) + BFG Emissions (lb/MMBTU) x BFG Usage (MMBTU/day)] / [NG Usage (MMBTU/day) + BFG Usage (MMBTU/day)]

Where:

NG = pertains to natural gas

BFG = pertains to blast furnace gas

EF = emission factors, using Emission Factors from AP-42, U.S. EPA FIRE and U.S. Steel Gary Works Annual Emission Statement Report

D.15.6 Sulfur Fuel Sampling and Analysis [326 IAC 7-4.1-2]

Pursuant to 326 IAC 7-4.1-2, and in order to comply with SO2 emissions limit in Condition D.15.2, the Permittee shall perform sampling of sulfur-bearing fuels for analysis of sulfur content as specified in the most recently submitted "SO2 Sampling and Analysis Protocol" (January 2019, submittal included as Attachment Q to the operating permit for reference). Section C - Sulfur Fuel Sampling and Analysis contains the Permittee's obligation with regard to the sampling and analysis required by this condition.

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

D.15.7 Maintenance of Continuous Emission Monitoring Equipment [326 IAC 3-5] [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) for Boiler No. 6 and related equipment for NOx emissions.

(b) All CEMS required by this permit shall meet all applicable performance specifications of 40 CFR 60, 40 CFR 75, or any other applicable performance specifications, and are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.

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- (c) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (d) Whenever a NOx CEM is down for more than twenty-four (24) hours, the Permittee shall follow good air pollution control practices.
- (e) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 40 CFR 60.

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

D.15.8 Record Keeping Requirements

- (a) To document the compliance status with Condition D.15.2, the Permittee shall maintain records in accordance with Section C - Sulfur Dioxide (SO₂) Record Keeping Requirements (Entire Source).
- (b) To document the compliance status with Condition D.15.1, the Permittee shall maintain records and make available to IDEM, upon request, process and fuel use information pertaining to each emissions unit, process, or combustion unit identified in this section, including the following:
 - (1) Identification of the applicable limit.
 - (2) The amount and type of each fuel used for each facility for each calendar day of operation.
 - (3) The hourly PM10 emission rate in pounds per hour (combined for all fuels).
 - (4) The hourly PM10 emission rate in pounds per MMBtu (combined for all fuels).
- (c) To document the compliance status with Condition D.15.7:
 - (1) The Permittee shall record the output of the continuous monitoring systems and shall perform the required record keeping and reporting, pursuant to 326 IAC 3-5-6 and 326 IAC 3-5-7.
 - (2) In the event that a breakdown of the NOx continuous emission monitoring system (CEMS) occurs, the Permittee shall maintain records of all CEMS malfunctions, out of control periods, calibration and adjustment activities, and repair or maintenance activities.
 - (3) The Permittee shall maintain the monthly records of the NOx emissions from the TBBH Boiler No. 6 based on the CEM data.
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.15.9 Reporting Requirements

- (a) To document the compliance status with conditions D.15.2, the Permittee shall submit a quarterly summary report as specified in Section C – Sulfur Dioxide Reporting (Entire Source) in this permit.
- (b) Quarterly summaries of the information to document the compliance status with Conditions D.15.3(a) shall be submitted using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days after the end of the quarter being reported.

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- (c) Pursuant to 326 IAC 3-5-7(c)(4), reporting of continuous monitoring system instrument downtime, except for zero (0) and span checks, which shall be reported separately, 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.
- (d) Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition.
- (e) These reports do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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SECTION D.16 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Fugitive Dust Sources

- (a) Paved and unpaved roads and parking lots with public access.
- (b) Batch transfer-loading and unloading operations
- (c) Continuous transfer in and out of storage piles
- (d) Batch transfer operations-slag and kish handling
- (e) Wind erosion from storage piles and open areas
- (f) In plant transfer by truck or rail
- (g) In plant transfer by front end loader or skip hoist
- (h) Material processing facility
- (i) Crusher fugitive emissions
- (j) Material processing facility building openings
- (k) Dust handling equipment

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

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

D.16.1 Particulate Matter (PM) Lake County Fugitive Dust Limits [326 IAC 6.8-10-4]

Pursuant to 326 IAC 6.8-10-4(1) (Lake County Fugitive Particulate Matter Control Requirements), compliance with the opacity limits specified in Section C - Fugitive Dust Emissions shall be achieved by controlling fugitive particulate matter emissions according to the revised Fugitive Dust Control Plan (FDCP) submitted on September 27, 2018 (See Attachment A). If it is determined that the control procedures specified in the FDCP do not demonstrate compliance with the fugitive emission limitations, IDEM, OAQ may request that the FDCP be revised and submitted for approval.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.16.2 Particulate Matter Control

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

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

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- (1) The first will be taken at the time of emission generation.
- (2) The second will be taken five (5) seconds later.
- (3) The third will be taken five (5) seconds later or ten (10) seconds after the first.

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

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

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

(h) Material Processing Limitations

- (1) Compliance with stack opacity limitations from material processing facilities shall be determined using 40 CFR 60, Appendix A, Method 9.
- (2) Compliance with the opacity limitations for fugitive particulate emissions from material processing equipment, except from a crusher at which a capture system is not used, shall be determined using 40 CFR 60, Appendix A, Method 9.
- (3) Compliance with the opacity limitations for fugitive particulate emissions from a crusher at which a capture system is not used, shall be determined using 40 CFR 60, Appendix A, Method 9.
- (4) Compliance with the opacity limitations for fugitive particulate emissions from a building enclosing all or part of the material processing equipment, except from a vent in the building shall be determined using 40 CFR 60, Appendix A, Method 22.
- (5) Compliance with the opacity limitations for fugitive particulate emissions from building vents shall be determined using 40 CFR 60, Appendix A, Method 5 or 17 or 40 CFR 60, Appendix A, Method 9.

(i) Dust Handling Equipment

Compliance with this standard shall be determined by 40 CFR 60, Appendix A, Method 9.

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

D.16.3 Record Keeping Requirements

Pursuant to 326 IAC 6.8-10-4(4) (Lake County Fugitive Particulate Matter Control Requirements):

- (a) The source shall keep the following documentation to show compliance with each of its control measures and control practices:
 - (1) A map or diagram showing the location of all emission sources controlled, including the location, identification, length, and width of roadways.
 - (2) For each application of water or chemical solution to roadways, the following shall be recorded:
 - (A) The name and location of the roadway controlled
 - (B) Application rate
 - (C) Time of each application
 - (D) Width of each application
 - (E) Identification of each method of application
 - (F) Total quantity of water or chemical used for each application

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- (G) For each application of chemical solution, the concentration and identity of the chemical
- (H) The material data safety sheets for each chemical
- (3) For application of physical or chemical control agents not covered by clause (2), the following:
 - (A) The name of the agent
 - (B) Location of application
 - (C) Application rate
 - (D) Total quantity of agent used
 - (E) If diluted, percent of concentration
 - (F) The material data safety sheets for each chemical
- (4) A log recording incidents when control measures were not used and a statement of explanation.
- (5) Copies of all records required by this section shall be submitted to the department within twenty (20) working days of a written request by the department.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.16.4 Reporting Requirements

- (a) Pursuant to 326 IAC 6.8-10-4(4)(G) (Lake County Fugitive Particulate Matter Control Requirements), a quarterly report shall be submitted to the department stating the following:
 - (1) The dates any required control measures were not implemented
 - (2) A listing of those control measures
 - (3) The reasons that the control measures were not implemented
 - (4) Any corrective action taken
- (b) These reports shall be submitted not later thirty (30) calendar days following the end of the quarter being reported. Section C – General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition.

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SECTION D.17 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activities:

- (a) Degreasing operations that do not exceed 145 gallons per twelve (12) months, except if subject to 326 IAC 20-6.
- (b) Cleaners and solvents characterized as follows:
 - (1) Having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38°C (100°F) or;
 - (2) Having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per twelve (12) months.
- (c) The following VOC and HAP storage containers:
 - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
 - (2) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (d) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (e) Any of the following structural steel and bridge fabrication activities:
 - (1) Cutting 200,000 linear feet or less of one inch (10) plate or equivalent.
 - (2) Using 80 tons or less of welding consumables.
- (f) Conveyors as follows:
 - (1) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day;
 - (2) Uncovered coal conveying of less than or equal to 120 tons per day.

Under 40 CFR 60, Subpart Y these units are considered affected facilities.
- (g) Coal bunker and coal scale exhausts and associated dust collector vents.
- (h) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations.
- (i) Vents from ash transport systems not operated at positive pressure.

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- (j) Fuel dispensing activities, including the following:
 - (1) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment.
 - (2) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less. A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, dispensing less than or equal to 230,000 gallons per month.
 - (3) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.
 - (4) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
 - (5) The following VOC and HAP storage containers: Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
- (k) One (1) 5,000 gallon #2 diesel fuel tank - A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.
- (l) Space heaters, process heaters, or boilers using the following fuels:
 - (1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
 - (2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) Btu per hour and firing fuel containing equal or less than five-tenths percent (0.5%) sulfur by weight.
- (m) Equipment powered by diesel fuel fired or natural gas-fired internal combustion engines of capacity equal to or less than five hundred thousand (500,000) British thermal units per hour except where total capacity of equipment operated by one (1) stationary source as defined by subdivision (38) exceeds two million (2,000,000) British thermal units per hour.
- (n) Combustion source flame safety purging on startup.
- (o) Refractory storage not requiring air pollution control equipment.
- (p) Equipment used exclusively for the following:
 - (1) Packaging lubricants and greases.
 - (2) Filling drums, pails, or other packaging containers with the following: Lubricating oils, Waxes and Greases.
- (q) Application of: oils; greases; lubricants; and nonvolatile material; as temporary protective coatings.

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- (r) Closed loop heating and cooling systems.
- (s) Rolling oil recovery systems.
- (t) Groundwater oil recovery wells.
- (u) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (v) Water runoff ponds for petroleum coke-cutting and coke storage piles.
- (w) Any operation using aqueous solutions containing less than 1% by weight of VOCs, excluding HAPS.
- (x) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
- (y) Noncontact cooling tower systems with forced or induced draft cooling tower system not regulated under a NESHAP.
- (z) Quenching operations used with heat treating operations.
- (aa) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (bb) Heat exchanger cleaning and repair.
- (cc) Process vessel degassing and cleaning to prepare for internal repairs.
- (dd) Stockpiled soils from soil remediation activities that are covered and waiting transport for disposal.
- (ee) Underground conveyors.
- (ff) Asbestos abatement projects regulated by 326 IAC 14-10.
- (gg) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (hh) Flue gas conditioning systems and associated chemicals, such as the following: sodium sulfate, ammonia and sulfur trioxide.
- (ii) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (jj) Blow down for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (kk) Activities associated with emergencies, including the following:
 - (1) On-site fire training approved by the department.
 - (2) Emergency generators as follows: Gasoline generators not exceeding one hundred ten (110) horsepower, Diesel generators not exceeding one thousand six hundred

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(1,600) horsepower and natural gas turbines or reciprocating engines not exceeding one thousand six hundred (1,600) horsepower.

- (3) Stationary fire pumps.
- (ll) Purge double block and bleed valves.
- (mm) A laboratory as defined in 326 IAC 2-7-1(19)(G).
- (nn) RCRA groundwater remediation system, identified as GWRP-1 which includes eleven (11) recirculation wells to remove benzene from groundwater through a combination of in-situ air sparging, air stripping and vapor extraction.

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

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

D.17.1 Fugitive Dust Emission Limitations [326 IAC 6-4-2][326 IAC 6.8-10-3]

(a) Pursuant to 326 IAC 6-4-2:

- (1) The brazing equipment, cutting torches, soldering equipment, welding equipment, structural steel and bridge fabrication, covered conveyors, dust collector vents associated with coal bunkers and coal scale, grinding and machining operations and ash transport systems vents generating fugitive dust shall be in violation of this rule (326 IAC 6-4) if any of the following criteria are violated:

- (A) A source or combination of sources which cause to exist fugitive dust concentrations greater than sixty-seven percent (67%) in excess of ambient upwind concentrations as determined by the following formula:

$$P = \frac{100((R) - U)}{U}$$

Where

P = Percentage increase

R = Number of particles of fugitive dust measured at downward receptor site

U = Number of particles of fugitive dust measured at upwind or background site

- (B) The fugitive dust is comprised of fifty percent (50%) or more respirable dust, then the percent increase of dust concentration in subdivision (1) of this section shall be modified as follows:

$$PR = (1.5 \pm N) P$$

Where

N = Fraction of fugitive dust that is respirable dust;

PR = allowable percentage increase in dust concentration above background; and

P = no value greater than sixty-seven percent (67%).

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- (C) The ground level ambient air concentrations exceed fifty (50) micrograms per cubic meter above background concentrations for a sixty (60) minute period.
 - (D) If fugitive dust is visible crossing the boundary or property line of a source. This subdivision may be refuted by factual data expressed in subdivisions (A), (B) or (C) of this section. 326 IAC 6-4-2(4) is not federally enforceable.
- (2) Pursuant to 326 IAC 6-4-6(6) (Exceptions), fugitive dust from a source caused by adverse meteorological conditions will be considered an exception to this rule (326 IAC 6-4) and therefore not in violation.
- (b) Pursuant to 326 IAC 6.8-10-3 (Lake County Fugitive Particulate Matter Emissions Limitations), fugitive emissions from the brazing equipment, cutting torches, soldering equipment, welding equipment, structural steel and bridge fabrication, covered conveyors, dust collector vents associated with coal bunkers and coal scale, grinding and machining operations, and ash transport systems vents generating fugitive dust shall comply with the emissions limitations in Section C.5 - Fugitive Dust Emissions.

D.17.2 Cold Cleaner Degreaser Control Equipment and Operating Requirements [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), the Permittee shall:

- (a) Ensure the following control equipment and operating requirements are met:
 - (1) Equip the degreaser with a cover.
 - (2) Equip the degreaser with a device for draining cleaned parts.
 - (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
 - (6) Store waste solvent only in closed containers.
 - (7) Prohibit the disposal or transfer of waste solvent in such a manner that could allow greater than twenty percent (20%) of the waste solvent (by weight) to evaporate into the atmosphere.
- (b) Comply with the following additional control equipment and operating requirements for cold cleaner degreasers without remote solvent reservoirs:
 - (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
 - (B) A water cover when solvent used is insoluble in, and heavier than, water.
 - (C) A refrigerated chiller.

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- (D) Carbon adsorption.
- (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
- (3) If used, solvent spray must be:
 - (A) performed in an enclosed chamber, with or without venting; or
 - (B) a solid, fluid stream applied at a pressure that does not cause excessive splashing.

D.17.3 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), the Permittee shall not operate a cold cleaning degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

D.17.4 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-1]

- (a) Pursuant to 326 IAC 8-9-1(a) and (b) (Volatile Organic Liquid Storage Vessels), on and after October 1, 1995, stationary vessels used to store volatile organic liquids (VOL), that are located in Clark, Floyd, Lake, or Porter County with a capacity of less than thirty nine thousand (39,000) gallons are subject to the reporting and record keeping requirements of this rule. The VOL storage vessels are exempted from all other provisions of this rule.
- (b) Pursuant to 326 IAC 8-9-6(a) and (b), the Permittee shall maintain the following records for the life of the stationary storage vessels and submit a report to IDEM, OAQ containing the following for each vessel:
 - (1) The vessel identification number,
 - (2) The vessel dimensions, and
 - (3) The vessel capacity.

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

D.17.5 Record Keeping Requirements

- (a) To document the compliance status with Condition D.17.3, the Permittee shall maintain the following records for each purchase of solvent used in the cold cleaner degreasing operations. These records shall be retained on-site or accessible electronically for the most recent three (3) year period and shall be reasonably accessible for an additional two (2) year period.
 - (1) The name and address of the solvent supplier.
 - (2) The date of purchase (or invoice/bill dates of contract servicer indicating service date).
 - (3) The type of solvent purchased.
 - (4) The total volume of the solvent purchased.
 - (5) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

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SECTION D.18

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Material Screening

- (a) One (1) material screening operation, identified as Area Three Screening Station (CPS002), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (1) One (1) Dock Unloading storage pile, constructed in 2015, with a nominal capacity of 74,669 ft².
 - (2) One (1) Area Three Material Pre-Screen storage pile, constructed in 2015, with a nominal capacity of 475 ft².
 - (3) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 250 tons per hour, consisting of the following:
 - (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) undersize discharge conveyor
 - (F) One (1) diesel engine, identified as CPS002-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII, this is considered an affected engine. Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
 - (4) One (1) Area Three undersize storage pile, constructed in 2015, with a nominal capacity of 475 ft².
 - (5) One (1) Area Three oversize stacker conveyor for loading railcars, constructed in 2015, with a maximum rated capacity of 400 tons per hour, driven by one (1) diesel engine, identified as CPS002-E2, with a maximum rated output of 38 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (b) One (1) material screening operation, identified as N-Yard Screening Station (CPS003), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (1) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 250 tons per hour, consisting of the following:
 - (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) fines discharge conveyor

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- (F) One (1) diesel engine, identified as CPS003-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (2) One (1) N-Yard oversize stacker for loading railcars, constructed in 2015, with a maximum rated capacity of 400 tons per hour, driven by one (1) diesel engine identified as CPS003-E2, with a maximum rated output of 38 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (c) One (1) material screening operation, identified as Undersize Material Screening Station (CPS004), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (1) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 200 tons per hour, consisting of the following:
- (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) double deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) buckwheat discharge conveyor
 - (F) One (1) undersize discharge conveyor
 - (G) One (1) diesel engine, identified as CPS004-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII this is considered an affected engine. Under 40 CFR 63, Subpart ZZZZ this is considered an affected engine.
- (The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

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

D.18.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

Pursuant to SSM 089-35649-00121, issued on June 24, 2015, and in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

- (a) Total PM emissions from the three (3) material screening operations, identified as CPS002, CPS003, and CPS004, shall not exceed 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) Total PM₁₀ emissions from the three (3) material screening operations, identified as CPS002, CPS003, and CPS004, shall not exceed 14.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) Total direct PM_{2.5} emissions from the three (3) material screening operations, identified as CPS002, CPS003, and CPS004, shall not exceed 9.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

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Compliance with these emission limits will ensure that the potential to emit from the 2015 modification is less than twenty-five (25) tons of PM, less than fifteen (15) tons of PM₁₀, and less than ten (10) tons of direct PM_{2.5} per twelve (12) consecutive month period, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2015 modification.

D.18.2 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate matter emissions from engines CPS002-E1, CPS002-E2, CPS003-E1, CPS003-E2, and CPS004-E1 shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.18.3 Particulate Control

In order to assure compliance with Condition D.18.1, the Permittee shall not operate CPS002 mobile screening unit, CPS003 mobile screening unit, or CPS004 mobile screening unit unless the enclosure (full boot) that covers the associated screen area and material transfer points is installed, maintained, and operated in a manner consistent with the manufacturer's specifications.

D.18.4 PM Emissions

To determine the compliance status with the PM emissions limit in Condition D.18.1(a), the Permittee shall calculate monthly PM emissions using the following equation:

$$E_{PM} = \frac{29.89 \frac{\text{lb PM}}{\text{kton}} Q_2 + 7.58 \frac{\text{lb PM}}{\text{kton}} Q_3 + 10.37 \frac{\text{lb PM}}{\text{kton}} Q_4}{2,000 \text{ lb/ton}} + 0.12 \text{ ton PM/month}$$

Where:

E_{PM} = Emissions of PM in tons per month

Q_2 = CPS002 (Area Three) material throughput (kton/month)

Q_3 = CPS003 (N-Yard) material throughput (kton/month)

Q_4 = CPS004 (Undersize) material throughput (kton/month)

0.12 ton PM/month = PTE of the Area Three Material Pre-Screen storage pile, the screener engines (CPS002-E1, CPS003-E1, CPS004-E1) and the stacker engines (CPS002-E2 and CPS003-E2)

29.89 lb PM/kton = 0.957 (lb PM/kton/transfer point) x 7 transfer points + 3.75 lb PM/kton (material screened) + 19.44 lb PM/kton (unpaved road traffic)

7.58 lb PM/kton = 0.957 (lb PM/kton/transfer point) x 4 transfer points + 3.75 lb PM/kton (material screened)

10.37 lb PM/kton = 0.957 (lb PM/kton/transfer point) x 3 transfer points + 7.50 lb PM/kton material screened

Conservative PTE calculation is based on all coke, pellets, and BOP scrap following the path with the highest number of conveyor transfer points.

D.18.5 PM10 Emissions

To determine the compliance status with the PM10 emissions limit in Condition D.18.1(b), the Permittee shall calculate monthly PM10 emissions using the following equation:

$$E_{PM10} = \frac{9.65 \frac{\text{lb PM10}}{\text{kton}} Q_2 + 3.12 \frac{\text{lb PM10}}{\text{kton}} Q_3 + 3.97 \frac{\text{lb PM10}}{\text{kton}} Q_4}{2,000 \text{ lb/ton}} + 0.10 \text{ ton PM10/month}$$

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Where:

E_{PM10} = Emissions of PM10 in tons per month
 Q_2 = CPS002 (Area Three) material throughput (kton/month)
 Q_3 = CPS003 (N-Yard) material throughput (kton/month)
 Q_4 = CPS004 (Undersize) material throughput (kton/month)
0.10 ton PM10/month = PTE of the Area Three Material Pre-Screen storage pile, the screener engines (CPS002-E1, CPS003-E1, CPS004-E1) and the stacker engines (CPS002-E2 and CPS003-E2)
9.65 lb PM10/kton = 0.453 (lb PM10/kton/transfer point) x 7 transfer points + 1.31 lb PM10/kton (material screened) + 5.18 lb PM10/kton (unpaved road traffic)
3.12 lb PM10/kton = 0.453 (lb PM10/kton/transfer point) x 4 transfer points + 1.31 lb PM10/kton (material screened)
3.97 lb PM10/kton = 0.453 (lb PM10/kton/transfer point) x 3 transfer points + 2.61 lb PM10/kton (material screened)

Conservative PTE calculation is based on all coke, pellets, and BOP scrap following the path with the highest number of conveyor transfer points.

D.18.6 PM2.5 Emissions

To determine the compliance status with the PM2.5 emissions limit in Condition D.18.1(c), the Permittee shall calculate monthly PM2.5 emissions using the following equation:

$$E_{PM2.5} = \frac{1.20 \frac{\text{lb PM2.5}}{\text{kton}} Q_2 + 0.47 \frac{\text{lb PM2.5}}{\text{kton}} Q_3 + 0.60 \frac{\text{lb PM2.5}}{\text{kton}} Q_4}{2,000 \text{ lb/ton}} + 0.10 \text{ ton PM2.5/month}$$

Where:

$E_{PM2.5}$ = Emissions of PM2.5 in tons per month
 Q_2 = CPS002 (Area Three) material throughput (kton/month)
 Q_3 = CPS003 (N-Yard) material throughput (kton/month)
 Q_4 = CPS004 (Undersize) material throughput (kton/month)
0.10 ton PM2.5/month = PTE of the Area Three Material Pre-Screen storage pile, the screener engines (CPS002-E1, CPS003-E1, CPS004-E1) and the stacker engines (CPS002-E2 and CPS003-E2)
1.20 lb PM2.5/kton = 0.069 (lb PM2.5/kton/transfer point) x 7 transfer points + 0.20 lb PM2.5/kton (material screened) + 0.52 lb PM2.5/kton (unpaved road traffic)
0.47 lb PM2.5/kton = 0.069 (lb PM2.5/kton/transfer point) x 4 transfer points + 0.20 lb PM2.5/kton (material screened)
0.60 lb PM2.5/kton = 0.069 (lb PM2.5/kton/transfer point) x 3 transfer points + 0.40 lb PM2.5/kton (material screened)

Conservative PTE calculation is based on all coke, pellets, and BOP scrap following the path with the highest number of conveyor transfer points.

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

D.18.7 Visible Emissions Notations

- (a) Visible emission notations of Area Three screener, N-Yard screener, Undersize screener, conveying, transferring, and screening operations shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

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- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.18.8 Record Keeping Requirements

- (a) To document the compliance status with Condition D.18.1, the Permittee shall maintain records in accordance with (1) through (3) below. Records shall be complete and sufficient to establish compliance with the PM, PM10, and PM2.5 emission limits established in Condition D.18.1.
 - (1) Calendar dates covered in the compliance period.
 - (2) The monthly material throughput in kton for each of the three (3) screening operations identified as CPS002, CPS003, and CPS004.
 - (3) The calculated PM, PM10, and PM2.5 emissions.
- (b) To document the compliance status with Condition D.18.7, the Permittee shall maintain a daily record of visible emission notations for the Area Three screener, N-Yard screener, and Undersize screener operations. The Permittee shall include in each daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g., the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.18.9 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.18.1(a), D.18.1(b), and D.18.1(c) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(33).

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SECTION D.19

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SECTION D.22 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Coal Pulverization and Air Preheater System (East PCI Coal Pulverization)

- (a) One (1) coal pulverization equipment train, identified as SS-1, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 1A, 1B and 1C.
- (b) One (1) coal pulverization equipment train, identified as SS-2, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 2A, 2B and 2C.
- (c) One (1) coal pulverization equipment train, identified as SS-3, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 3A, 3B and 3C.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Pulverized Coal Storage and Feed System (West PCI Coal Pulverization)

- (a) One (1) pulverized coal transport, identified as Line A, constructed in 1993, with a maximum capacity of 210 tons per hour, ducted to a baghouse (A) exhausting to stack (SS-5).
- (b) One (1) pulverized coal transport, identified as Line B, constructed in 1993, with a maximum capacity of 210 tons per hour, ducted to a baghouse (B) exhausting to stack (SS-6).
- (c) One (1) pulverized coal storage reservoir, constructed in 1993, with a maximum capacity of 600 tons, blanketed with nitrogen and ducted to a baghouse (vent filter house) exhausting to stack (SS-7).

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Railcar Heater (PCI Coal Handling Thaw Shed)

- (a) One (1) railcar heater system, constructed in 1993, with a maximum capacity of 14 MMBtu per hour, exhausting inside the building.

Coal Handling Operations

- (a) One (1) railcar dumper, identified as RCD-1, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse 8AB exhausting through one or two fans to stacks 8A and/or 8B.
- (b) One (1) reclaim hopper, identified as RCH-1, constructed in 1993, with a maximum capacity of 300 tons per hour, ducted to baghouse DC-6 and exhausting to stack DC-6.
- (c) One (1) Car Dump Hopper 1/C1, identified as FS-8, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to baghouse DC-1 exhausting to stack F1.

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- (d) One (1) Car Dump Hopper 2/C1, identified as FS-9, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to a baghouse DC-2 exhausting to stack F2.
- (e) One (1) Car Dump Hopper 3/C1, identified as FS-10, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to a baghouse DC-3 exhausting to stack F3.
- (f) One (1) Transfer Point C1/C2, identified as FS-2, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-4 exhausting to stack F4.
- (g) One (1) Reclaim Hopper/C2, identified as FS-14, constructed in 1993, with a maximum capacity of 300 tons per hour, ducted to a baghouse DC-5 exhausting to stack F5.
- (h) One (1) Screen Transfer/C2, identified as FS-3, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-7 exhausting to stack F7.
- (i) One (1) Screen/C3 Gate Transfer, identified as FS-11, constructed in 1993, ducted to a baghouse DC-8 exhausting to stack F.
- (j) One (1) Screen/C4 Gate Transfer, identified as FS-12, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-9 exhausting to stack F9.
- (k) One (1) Transfer Point C4/C5, identified as FS-4, constructed in 1993, ducted to a baghouse DC-10 exhausting to stack F10.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

East Building – Coal Handling

- (a) One (1) Transfer Point C5/C6, identified as FS-5, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-11 exhausting to stack F11.
- (b) One (1) Transfer Point C6/Bin 1, identified as FS-7, constructed in 1993, ducted to baghouse DC-12 exhausting to stack F12.
- (c) One (1) Transfer Point C5/Bin 2, identified as FS-6, constructed in 1993, ducted to baghouse DC-13 exhausting to stack F13.
- (d) One (1) Transfer Point C6/Bin 3, identified as FS-13, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to baghouse DC-14 exhausting to stack F14.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Coal Piles and Haul Roads

- (a) One (1) coal pile and handling operation, identified as F17, constructed in 1993, with a storage capacity of 100,000 tons and an area of 2 acres, having a maximum throughput of 200,000 tons per year.
- (b) Haul Roads - Vehicle Traffic

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

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

D.22.1 PSD Minor Limit (NO_x) [326 IAC 2-2]

Pursuant to CP (45) 1895, issued on October 26, 1990, and in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), the Permittee shall comply with the following:

- (a) The natural gas usage in the three (3) preheaters shall be limited to less than 549 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month. The natural gas usage in the three (3) preheaters shall be limited to less than 183 million cubic feet (MMCF) per month.
- (b) The natural gas usage in the railcar heater shall be limited to less than 12.504 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month. The natural gas usage in the railcar heater shall be limited to less than 5 million cubic feet (MMCF) per month.

Compliance with these limits shall limit the potential to emit to less than thirty-seven (37) tons of NO_x per twelve (12) consecutive month period and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

D.22.2 PM and PM₁₀ Minor Limits [326 IAC 2-2][326 IAC 2-1.1-5]

Pursuant to CP (45) 1895, issued on October 26, 1990, and T089-29907-00121, issued on December 20, 2013, and in order to render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the PM and PM₁₀ emissions from the coal pulverization system shall not exceed the emission limits listed in the table below:

Emission Unit	PM (lb/hr)	PM10 (lb/hr)
SS-1 (1A, 1B, and 1C)	1.08	0.63
SS-2 (2A, 2B, and 2C)	1.08	0.63
SS-3 (3A, 3B, and 3C)	1.08	0.63
Line A (SS-5)	0.09	0.06
Line B (SS-6)	0.09	0.06
Pulverized coal storage reservoir (SS-7)	0.09	0.06
RCD-1 (8A)	0.36	0.21
RCD-1 (8B)	0.36	0.21
DC-6 (Stack DC-6)	0.09	0.06
DC-1 (Stack F1)	0.09	0.06
DC-2 (Stack F2)	0.09	0.06
DC-3 (Stack F3)	0.09	0.06
DC-4 (Stack F4)	0.09	0.06
DC-5 (Stack F5)	0.09	0.06
DC-7 (Stack F7)	0.09	0.06
DC-8 (Stack F)	0.09	0.06
DC-9 (Stack F9)	0.09	0.06
DC-10 (Stack F10)	0.09	0.06
DC-11 (Stack F11)	0.09	0.06
DC-12 (Stack F12)	0.09	0.06
DC-13 (Stack F13)	0.09	0.06
DC-14 (Stack F14)	0.09	0.06
Coal Pile F17	0.09	0.06

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Compliance with these emission limits and the implementation of the Fugitive Dust Control Plan shall limit the potential to emit from CP (45) 1895, issued on October 26, 1990, of PM to less than twenty-five (25) and PM₁₀ to less than fifteen (15) tons per twelve (12) consecutive month period, each and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

D.22.3 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate matter emissions from the coal pulverization system units shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

D.22.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and their corresponding control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.22.5 Testing Requirements

- (a) Pursuant to Agreed Order 2017-24764-A, issued on April 20, 2021, no later than 180 days after permit issuance, the Permittee shall perform PM testing on the SS-1 baghouse stacks 1A, 1B and 1C, the SS-2 baghouse stacks 2A, 2B and 2C, or the SS-3 baghouse stacks 3A, 3B and 3C for the purpose of determining compliance with Conditions D.22.2 and D.22.3, utilizing methods approved by the Commissioner.
- (b) The second 3-year test cycle shall be performed on the SS-1 baghouse stacks 1A, 1B and 1C, the SS-2 baghouse stacks 2A, 2B and 2C, or the SS-3 baghouse stacks 3A, 3B and 3C not previously tested, for the purpose of determining compliance with Conditions D.22.2 and D.22.3, utilizing methods approved by the Commissioner.
- (c) The third 3-year test cycle shall be performed on the SS-1 baghouse stacks 1A, 1B and 1C, the SS-2 baghouse stacks 2A, 2B and 2C, or the SS-3 baghouse stacks 3A, 3B and 3C not previously tested, for the purpose of determining compliance with Conditions D.22.2 and D.22.3, utilizing methods approved by the Commissioner.
- (d) The testing cycle for these units shall be repeated at least once every three (3) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM₁₀ includes filterable PM only.

D.22.6 Particulate Control

- (a) In order to comply with Condition D.22.2, the baghouses for particulate control shall be in operation and control emissions from the coal pulverization system units at all times the coal pulverization system units are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be isolated, repaired, or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be isolated, 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.

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

D.22.7 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of each baghouse stack exhaust shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (d) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

The above monitoring condition is also required under Compliance Assurance Monitoring (CAM) for PM10 and PM2.5 for the following:

- (1) Coal pulverization equipment train, identified as SS-1;
- (2) Coal pulverization equipment train, identified as SS-S; and
- (3) Coal pulverization equipment train, identified as SS-3.

D.22.8 Parametric Monitoring [40 CFR 64]

The Permittee shall record the pressure drop across the coal pulverization equipment train (SS-1, SS-2, and SS-3) baghouses at least once per day when the associated pig iron caster is in operation. When, for any one reading, the pressure drop across a baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 1.0 and 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

The above monitoring condition is also required under Compliance Assurance Monitoring (CAM) for PM10 and PM2.5 for the following:

- (1) Coal pulverization equipment train, identified as SS-1;
- (2) Coal pulverization equipment train, identified as SS-S; and
- (3) Coal pulverization equipment train, identified as SS-3.

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D.22.9 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced.
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line.

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

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

D.22.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.22.1(a), the Permittee shall maintain records of the monthly natural gas usage in the three (3) air preheaters.
- (b) To document the compliance status with Condition D.22.1(b), the Permittee shall maintain records of the monthly natural gas usage in the rail car heater.
- (c) To document the compliance status with Condition D.22.7, the Permittee shall maintain records of daily visible emission notations of the baghouse(s) stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) To document the compliance status with Condition D.22.8, the Permittee shall maintain the records of the once per day pressure drop of the coal pulverization equipment train (SS-1, SS-2, and SS-3) baghouses during normal operation. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of pressure drop reading (e.g. the process did not operate that day).
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

D.22.11 Reporting Requirements

A quarterly report of natural gas usage in the three (3) preheaters and railcar heater and a quarterly summary of the information to document the compliance status with D.22.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(33).

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SECTION D.27 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Corrective Action Management Unit (CAMU)

- (a) One (1) CAMU Evaporative Spray System, with a maximum throughput capacity of 250 gallons per minute (gpm), consisting of 16 spray heads, each with a rated capacity of 14.4 gpm, located on the floor of CAMU Unit 2. The system is fed from a single pump drawing water from the CAMU Unit 1 leachate collection system, which contains non-native materials dredged from the Calumet River.

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

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

D.27.1 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), particulate matter emissions from the CAMU Evaporative Spray System shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

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SECTION D.28 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Coke Receiving and Handling

- (a) One (1) coke rail car unloading station, constructed in 2014, identified as CPS0001, with a maximum capacity of 10,126,560 tons per year, consisting of the following:
- (1) One (1) unloading station.
 - (2) One (1) conveyor, with a maximum rated capacity of 1,156 tons per hour.

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

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

D.28.1 PM, PM₁₀, and PM_{2.5} Minor Limits [326 IAC 2-2]

Pursuant to SSM 089-34579-00121, issued on August 21, 2014, and in order render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

- (a) The amount of coke unloaded at the rail car unloading station, identified as CPS0001, shall not exceed 1,000,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.
- (b) PM emissions from the rail car unloading station, identified as CPS0001, shall not exceed 0.96 lb per kiloton of coke.
- (c) PM₁₀ emissions from the rail car unloading station, identified as CPS0001, shall not exceed 0.45 lb per kiloton of coke.
- (d) PM_{2.5} emissions from the rail car unloading station, identified as CPS0001, shall not exceed 0.069 lb per kiloton of coke.
- (e) The fugitive dust control plan shall be implemented to reduce emissions from the unpaved roads.

Compliance with these limits shall limit the potential to emit of PM to less than twenty-five (25) and PM₁₀ to less than fifteen (15) tons, and PM_{2.5} to less than ten (10) tons per twelve (12) consecutive month period, each, and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

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

D.28.2 Record Keeping Requirements

- (a) To document the compliance status with Condition D.28.1(a), the Permittee shall maintain monthly records of the amount of coke unloaded at CPS0001.
- (b) Section C - General Record Keeping Requirements, of this permit contains the Permittee's obligation with regard to the records required by this condition.

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D.28.3 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.28.1(a) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(33).

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SECTION D.29 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Iron Ore Screening

- (a) One (1) iron ore pellet screening plant, identified as North Plant Unit 01, constructed in 1974, with a nominal capacity of 600 tons per hour, using screens and conveyers to process iron ore pellets.
- (b) One (1) iron ore pellet screening plant, identified as South Plant Unit 02, constructed in July 1981, with a nominal capacity of 600 tons per hour, using screens, equipped with an enclosure, and conveyers to process iron ore pellets, consisting of the following:
 - (1) One (1) feed hopper, identified as SH1
 - (2) One (1) main feed conveyor, identified as SC1
 - (3) One (1) Tyler shaker, identified as SS1
 - (4) One (1) stacker conveyor, identified as SC2
 - (5) One (1) shuttle conveyor, identified as SC3
 - (6) Two (2) conveyors, identified as SC4 and SC5
 - (7) Stockpiles
- (c) One (1) portable iron ore pellet screening station, identified as PPS-1, constructed in 2018, with a maximum capacity of 900 tons per hour, using screens and conveyers to process iron ore pellets, consisting of the following:
 - (1) One (1) feed hopper
 - (2) One (1) feed conveyor
 - (3) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (4) One (1) oversize discharge conveyor
 - (5) One (1) fines discharge conveyor
- (d) Loaders for loading/unloading and transporting iron ore pellets on unpaved roads.

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

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

D.29.1 PM and PM₁₀ PSD Minor Limit [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

- (a) PM emissions from the one (1) iron ore pellet screening plant, identified as South Plant Unit 02, excluding the PM emissions from the fines stockpiles and paved and unpaved roads, shall be limited to a total of less than 18.7 tons per twelve consecutive month period, with compliance determined at the end of each month.
- (b) PM₁₀ emissions from the one (1) iron ore pellet screening plant, identified as South Plant Unit 02, excluding the PM₁₀ emissions from the fines stockpiles and paved and unpaved roads, shall be limited to a total of less than 12.9 tons per twelve consecutive month period, with compliance determined at the end of each month.

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Compliance with these limits and the implementation of the Fugitive Dust Control Plan, shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to this modification.

D.29.2 PM, PM10, and PM2.5 PSD Minor Limit [326 IAC 2-2]

Pursuant to SSM 089-39176-00121, issued on March 19, 2018, and in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2018 modification, the Permittee shall comply with the following:

- (a) PM emissions from the one (1) portable iron ore pellet screening station, identified as PPS-1, material handling, storage piles, and unpaved roads shall not exceed 24.9 tons per twelve consecutive month period, with compliance determined at the end of each month.
- (b) PM10 emissions from the one (1) portable iron ore pellet screening station, identified as PPS-1, material handling, storage piles, and unpaved roads shall not exceed 14.9 tons per twelve consecutive month period, with compliance determined at the end of each month.
- (c) PM2.5 emissions from the one (1) portable iron ore pellet screening station, identified as PPS-1, material handling, storage piles, and unpaved roads shall not exceed 9.9 tons per twelve consecutive month period, with compliance determined at the end of each month.

Compliance with these limits and the Fugitive Dust Control Plan shall limit the potential to emit from the 2018 modification of PM to less than twenty-five (25), PM10 to less than fifteen (15) tons, and PM2.5 to less than ten (10) tons per twelve (12) consecutive month period, each and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2018 modification.

D.29.3 Nonattainment New Source Review (NSR) Minor Limit [326 IAC 2-1.1-5]

In order to render the requirements of 326 IAC 2-1.1-5, the Nonattainment NSR requirements, not applicable, the Permittee shall comply with the following:

- (a) PM2.5 emissions from the one (1) iron ore pellet screening plant, identified as South Plant Unit 02, excluding the PM2.5 emissions from the fines stockpiles and paved and unpaved roads, shall be limited to a total of less than 9.7 tons per twelve consecutive month period, respectively, with compliance determined at the end of each month.

Compliance with this limit and the implementation of the Fugitive Dust Control Plan, shall render the requirements of 326 IAC 2-1.1-5, the Nonattainment NSR requirements, not applicable to this modification.

D.29.4 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a) (Particulate Matter Limitations for Lake County), each feeder, screen, conveyor and loader used for iron ore pellet screening at the North and South Plants, and the portable iron ore pellet screening station, identified as PPS-1, shall each not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

D.29.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and their corresponding control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.29.6 PM, PM10 and PM2.5

In order to assure compliance with Condition D.29.1, the Permittee shall not operate South Plant Unit 02 unless the enclosure that covers the associated Tyler shaker screener (SS1) is installed and intact.

- (a) The summation of the daily emissions calculations to demonstrate compliance with Condition D.29.1 shall be calculated for the following emission points:

Front end loader pellet ore feed into hopper (SH1)
Feed (SH1) to main feed conveyor (SC1)
Main feed conveyor (SC1) to Tyler shaker (SS1)
Tyler shaker screener (SS1)
Tyler shaker (SS1) to stacker conveyor (SC2)
Stacker conveyor (SC2) to stockpiles
Tyler shaker (SS1) to shuttle conveyor (SC3)
Shuttle conveyor (SC3) to conveyor (SC4)
Conveyor (SC4) to conveyor (SC5)
Conveyor (SC5) to stockpiles

Emissions calculations shall be as follows:

PM Daily Emissions, tons = Throughput, tons/day x PM EF, lb/ton x (1 - control efficiency) x ton/2000 lbs

PM10 Daily Emissions, tons = Throughput, tons/day x PM10 EF, lb/ton x (1 - control efficiency) x ton/2000 lbs

PM2.5 Daily Emissions, tons = Throughput, tons/day x PM2.5 EF, lb/ton x (1 - control efficiency) x ton/2000 lbs

- (b) The following emission factors shall be utilized in determining the daily emissions calculations in section (a) of this condition:

- (1) For the Tyler shaker screener (SS1):

Controlled Emission factor (lb/ton)			Average Percent Moisture Content of Pelletized Iron Ore	Control Efficiency (Shroud)
PM	PM10	PM2.5		
0.0022	0.00074	0.00005	3.0%	85%

- (2) For the front end loader pellet ore feed into hopper (SH1), the feed (SH1) to main feed conveyor (SC1), the main feed conveyor (SC1) to Tyler shaker (SS1), the Tyler shaker (SS1) to stacker conveyor (SC2), the stacker conveyor (SC2) to stockpiles, the Tyler shaker (SS1) to shuttle conveyor (SC3), shuttle conveyor (SC3) to conveyor (SC4), the conveyor (SC4) to conveyor (SC5), and the conveyor (SC5) to stockpiles:

Controlled Emission factor (lb/ton)			Average Percent Moisture Content of Pelletized Iron Ore	Control Efficiency
PM	PM10	PM2.5		
0.00014	0.000046	0.000013	3.0%	0%

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D.29.7 PM, PM10, and PM2.5 Emissions

In order to assure compliance with Condition D.29.2, the Permittee shall calculate monthly PM, PM10, and PM2.5 emissions using the following equations:

$$E_{PM} = \frac{5.78 \frac{\text{lb PM}}{\text{kton}} Q}{2,000 \text{ lb/ton}} + 0.003 \text{ ton PM/month}$$

$$E_{PM10} = \frac{2.25 \frac{\text{lb PM}}{\text{kton}} Q}{2,000 \text{ lb/ton}} + 0.002 \text{ ton PM10/month}$$

$$E_{PM2.5} = \frac{1.45 \frac{\text{lb PM}}{\text{kton}} Q}{2,000 \text{ lb/ton}} + 0.002 \text{ ton PM2.5/month}$$

Where:

E_{PM}	=	Emissions of PM in tons per month
E_{PM10}	=	Emissions of PM10 in tons per month
$E_{PM2.5}$	=	Emissions of PM2.5 in tons per month
Q	=	PPS-1 iron ore pellets throughput (kton/month)
0.003 ton PM/month	=	PTE of the pre-screen storage pile
0.002 ton PM10/month	=	PTE of the pre-screen storage pile
0.002 ton PM2.5/month	=	PTE of the pre-screen storage pile
5.78 lb PM/kton	=	1.96 lb PM/kton (material handling) + 3.75 lb PM/kton (iron ore pellets screened) + 0.073 lb PM/kton (unpaved road traffic)
2.25 lb PM/kton	=	0.93 lb PM/kton (material handling) + 1.31 lb PM/kton (iron ore pellets screened) + 0.019 lb PM/kton (unpaved road traffic)
1.45 lb PM/kton	=	0.14 lb PM/kton (material handling) + 1.31 lb PM/kton (iron ore pellets screened) + 0.0019 lb PM/kton (unpaved road traffic)

D.29.8 Fugitive Dust Control

In order to assure compliance with Condition D.29.4 (Particulate Matter Limitations for Lake County), the Fugitive Dust Control Plan (included as Attachment A to this permit) shall be implemented to control fugitive dust.

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

D.29.9 Visible Emissions Notations

- (a) Visible emission notations of the screens, conveyors, and loaders for loading/unloading and transporting shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

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- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee’s obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

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

D.29.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.29.1, the Permittee shall maintain records of the daily iron ore pellet throughput weight, and daily emissions calculations required by D.29.6. Daily emissions calculations shall be completed for each month within 10 days of the end of each month.
- (b) To document the compliance status with Condition D.29.2, the Permittee shall maintain records of the monthly iron ore pellet throughput weight and monthly emissions calculations required by D.29.7.
- (c) To document the compliance status with Condition D.29.9 (Visible Emissions Notation), the Permittee shall maintain a daily record of visible emission notations of the screening, conveying, loading/unloading and transporting exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.29.11 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.29.1 and D.29.2 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official,” as defined by 326 IAC 2-7-1(33).

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SECTION D.30 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Pig Iron Caster

- (a) One (1) pig iron caster, constructed in 2022, with a maximum capacity of 200 tons of pig iron ingots per hour, using a baghouse as control, and exhausting to stack S01.

Insignificant Activities:

- (rr) One (1) natural gas-fired mold dryer burner, constructed in 2022, with a maximum heat input capacity of 2.3 MMBtu per hour, using no control, and exhausting outdoors.
- (ss) The following fugitive emission sources:
- (1) One (1) shot bunker, constructed in 2022, with a maximum capacity of 1.0 ton per hour, using no control, and exhausting outdoors.
 - (2) Unpaved roads

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

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

D.30.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

- (a) The PM emissions from the pig iron caster shall not exceed 17.91 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The PM₁₀ emissions from the pig iron caster shall not exceed 13.03 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The PM_{2.5} emissions from the pig iron caster shall not exceed 9.73 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, in conjunction with the potential fugitive emissions from vehicular traffic and implementation of the Fugitive Dust Control Plan, shall limit the PM emissions to less than 25 tons per year, the PM₁₀ emissions to less than 15 tons per year, and the PM_{2.5} emissions to less than 10 tons per year and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2021 construction.

D.30.2 Particulate Matter (PM) Limitations for Lake County [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a), (Particulate Matter Limitations for Lake County), particulate matter (PM) emissions from the pig iron caster and natural gas-fired natural gas-fired mold dryer burner, shall be limited to 0.03 grain per dry standard cubic foot of exhaust air, each.

D.30.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan is required for these facilities and any control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

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Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.30.4 Particulate Matter Control

In order to assure compliance with Conditions D.30.1 and 30.2, the baghouse for particulate matter control shall be in operation and control emissions from the pig iron caster at all times the pig iron caster is in operation.

In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be isolated, repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be isolated, repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

D.30.5 PM, PM10, and PM2.5 Emissions Determination

Compliance with Conditions D.30.1(a), D.30.1(b), and D.30.1(c) shall be determined by calculating the PM, PM10, and PM2.5 emissions from the pig iron caster using the following equations:

$$\text{PM (ton/month)} = \text{PT (ton/month)} * (\text{EF lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM = total PM emissions from the pig iron caster

PT = Pig iron production in tons per month

EF,PM = filterable PM emission rate from most recent stack test

$$\text{PM-10 (ton/month)} = \text{PT (ton/month)} * (\text{EF lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM-10 = total PM10 emissions from the pig iron caster

PT = Pig iron production in tons per month

EF,PM-10 = filterable and condensable PM-10 emission rate from most recent stack test

$$\text{PM-2.5 (ton/month)} = \text{PT (ton/month)} * (\text{EF lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM-2.5 = total PM2.5 emissions from the pig iron caster

PT = Pig iron production in tons per month

EF,PM-2.5 = filterable and condensable PM-2.5 emission rate from most recent stack test

D.30.6 Testing Requirements [326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.30.1 and D.30.2, the Permittee shall perform PM, PM₁₀, and PM_{2.5} testing of the pig iron caster after controls utilizing methods approved by the commissioner at least once every 5 years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM₁₀ and PM_{2.5} includes filterable and condensable PM for demonstrating compliance with Condition D.30.1(b) and (c). PM₁₀ includes only filterable PM for demonstrating compliance with Condition D.30.2.

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

D.30.7 Visible Emissions Notations

- (a) Visible emission notations of baghouse stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take a reasonable response. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.30.8 Parametric Monitoring

The Permittee shall record the pressure drop across the baghouse at least once per day when the associated pig iron caster is in operation. When, for any one reading, the pressure drop across a baghouse is outside the normal range, the Permittee shall take a reasonable response. The normal range for this unit is a pressure drop between 1.0 and 6.0 inches of water unless a different upper-bound or lower-bound value for this range is determined during the latest stack test. Section C - Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

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

D.30.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.30.1, the Permittee shall maintain monthly records of the pig iron throughput to the pig iron caster.
- (b) To document the compliance status with Condition D.30.6, the Permittee shall maintain records of daily visible emission notations of the baghouse(s) stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.30.7, the Permittee shall maintain daily records of pressure drop across the baghouse(s). The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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- (d) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.

D.30.10 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.30.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(33).

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SECTION D.31 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activities:

(qq) Two (2) natural gas-fired boilers, identified as ETF-1 and ETF-2, permitted in 2016, each with a maximum capacity of 6.27 MMBtu/hr, equipped with low NOx burners and flue gas recirculation, and exhausting to stack ETF-1a and ETF-2a, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered new industrial boilers.

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

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

D.31.1 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(b)(3), the particulate matter emissions from the two (2) natural gas-fired boilers, identified as ETF-1 and ETF-2, shall not exceed one-hundredth (0.01) grain per dry standard cubic foot (dscf).

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SECTION D.32 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Groundwater Sparging

- (a) One (1) pilot test air sparging system, identified as PTAS, constructed in 2017, with a maximum air injection rate of 20 acfm (actual cubic feet per minute), using no control equipment, and exhausting to stack PTAS-1.

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

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

D.32.1 Hazardous Air Pollutant (HAP) Minor Limit [326 IAC 2-4.1]

In order to render the requirements of 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)) not applicable, the Permittee shall comply with the following:

- (a) Total benzene emissions from the pilot air sparging system, identified as PTAS, shall not exceed 9.75 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, shall limit HAP emissions from the pilot air sparging system, identified as PTAS, to less than ten (10) tons for any single HAP per twelve (12) consecutive month period and render the requirements of 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP)) not applicable.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.32.2 Benzene Emissions [326 IAC 2-4.1]

Compliance with the Benzene emission limit in Condition D.32.1 shall be determined using the following equations:

- (a) $\text{Benzene}_{\text{month } i} \text{ (tons)} = \text{Benzene}_{\text{ER}} \text{ (lb/hr)} \times \text{Hours}_{\text{month } i} \times 1/2,000 \text{ (lb/ton)}$

Where:

$$\text{Benzene}_{\text{ER}} \text{ (lb/hr)} = \text{Benzene concentration}_{\text{PTAS groundwater}} \text{ (ug/L)} \times 1.09\text{E-}05$$

$$1.09\text{E-}05 = \text{Henry's Law Constant @ } 15^{\circ}\text{C} \text{ (unitless)} \times \text{Total Sparge Rate (33,980 liters/hr)} \times 1/10\text{E+}06 \text{ (gram/ugram)} \times 1/454 \text{ (lbs/gram)}$$

$\text{Hours}_{\text{month } i} = \text{Hours the PTAS pilot air sparging system was in operation}$

- (1) If the Benzene concentration of PTAS groundwater sample taken in accordance with paragraph (b) of this condition is less than $3.23\text{E+}05$ (ug/L), the Benzene concentration PTAS groundwater shall be equal to $3.23\text{E+}05$ (ug/L).
- (2) If the Benzene concentration of PTAS groundwater sample taken in accordance with paragraph (b) of this condition is greater than $3.23\text{E+}05$ (ug/L), the Benzene concentration PTAS groundwater shall be equal to the Benzene concentration of the sample.

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- (b) The Permittee shall determine the Benzene concentration in groundwater in the pilot sparge well prior to beginning sparging. The groundwater shall be sampled and analyzed by an independent laboratory, utilizing the appropriate American Society for Testing and Materials (ASTM) and/or U.S. Environmental Protection Agency (EPA) standards for sampling and chemical analysis. Sampling and analysis shall be conducted as follows:
- (A) The sample acquisition points shall be at locations where representative samples may be obtained.
 - (B) Minimum sample size shall be in accordance with ASTM/U.S. EPA method specifications for representative samples in the size fraction and quantity delivered.
 - (C) Samples shall be prepared and analyzed in accordance with ASTM specifications.

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

D.32.3 Record Keeping Requirements

- (a) To document the compliance status with Condition D.32.1, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the Benzene emissions limit established in Condition D.32.1. Records necessary to demonstrate compliance shall be available no later than thirty (30) days of the end of each compliance period.
- (1) The result of the Benzene concentration in groundwater from the PTAS groundwater sample required in Condition D.32.2.
 - (2) The total hours of operation of pilot test air sparging system, identified as PTAS, for each month.
 - (3) The calculated Benzene emissions for each month and each compliance period.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.32.4 Reporting Requirements

A quarterly report of the pilot test air sparging system hours of operation shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(33).

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SECTION D.33 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activities

- (pp) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, as follows:
- (1) Thirty-six (36) space heaters, constructed in 2018 , each with a maximum heat input capacity of 0.4 MMBtu/hr.

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

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

D.33.1 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2(a), the particulate matter emissions from the thirty-six (36) space heaters shall not exceed seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (dscf)).

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SECTION D.34 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

No. 4 Boiler House

- (a) Two (2) Boilers, No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas, and fuel oil, with a maximum heat input of 500 MMBtu per hour, each, and exhausting through Stacks O46268 and O46269, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler, No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 500 MMBtu per hour, exhausting through Stack O46270.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

Turboblower Boiler House (TBBH)

- (a) Three (3) Boilers No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour, exhausting through Stack OT6275.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

- (c) One (1) Boiler No. 6, identified as OTB60467, constructed after August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276, with a continuous emissions monitoring system for NOx on the stack.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

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

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

D.34.1 NOx Emissions from Large Affected Units [326 IAC 10-2] [40 CFR 75]

Pursuant to 326 IAC 10-2-1, the boilers, identified as O4B10459, O4B20460, and O4B30461, OTB10462, OTB20463, OTB30464, OTB50466, and OTB60467, shall comply with the ozone season nitrogen oxide (NOx) monitoring, record keeping, and reporting requirements under 326 IAC 10-2 when combusting less than fifty percent (50%) of its total heat input from the combustion of blast furnace gas averaged over an ozone control period.

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Compliance Determination Requirements [326 IAC 2-7-(1)]

D.34.2 Continuous Emissions Monitoring [326 IAC 3-5] [326 IAC 2-7-6(1),(6)]

- (a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions) continuous emission monitoring systems for NO_x shall be calibrated, maintained, and operated for measuring NO_x for Boiler No. 6, which meet all applicable performance specifications of 326 IAC 3-5-2.
- (b) All CEMS required by this permit shall meet all applicable performance specifications of 40 CFR 75 or any other applicable performance specifications and are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3.
- (c) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 40 CFR 75 and 40 CFR 96.

D.34.3 Fuel Usage and Heat Input

During each ozone control period, to comply with Condition D.34.1, the Permittee shall monitor fuel usage and percentage of heat input derived from each fuel combusted from each boiler, identified as O4B10459, O4B20460, O4B30461, OTB10462, OTB20463, OTB30464, OTB50466, and OTB60467 to demonstrate that less than fifty percent (50%) of the aggregate heat input is derived from blast furnace gas for each ozone control period.

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

D.34.4 NO_x Continuous Emissions Monitoring (CEMS) Equipment Downtime [326 IAC 2-7-6(1),(6)]

- (a) In the event that a breakdown of a NO_x continuous emissions monitoring system (CEMS) occurs, a record shall be made of the time and reason of the breakdown and efforts made to correct the problem.
- (b) Whenever a NO_x continuous emissions monitoring system (CEMS) is malfunctioning or is down for maintenance or repairs for a period of twenty-four (24) hours or more and a backup NO_x CEMS is not online within twenty-four (24) hours of shutdown or malfunction of the primary NO_x CEMS, the Permittee shall follow good air pollution control practices.

D.34.5 NO_x Emissions [326 IAC 10-2][40 CFR 75]

- (a) Pursuant to 326 IAC 10-2-3 (Monitoring Provisions), the Permittee shall comply with the following:
 - (1) Install monitoring systems for monitoring NO_x ozone season mass emissions and individual unit heat input. This includes all systems required to monitor the following operating parameters in accordance with 40 CFR 75.71 and 40 CFR 75.72, as applicable:
 - (A) NO_x emission rate.
 - (B) NO_x concentration.
 - (C) Stack gas moisture content.
 - (D) Stack gas flow rate.
 - (E) Carbon dioxide (CO₂) or ozone (O₂) concentration.
 - (F) Fuel flow rate.
 - (2) Complete all certification tests required under 326 IAC 10-2-5 and meet all other requirements required under 326 IAC 10-2-3 and 40 CFR 75 applicable to the monitoring systems.

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- (3) Record, report, and quality assure the data from the monitoring systems.
- (4) The designated representative shall submit written notice to the department and U.S. EPA in accordance with 40 CFR 75.61.
- (b) Pursuant to 326 IAC 10-2-6 (Data Substitution), if a monitoring system fails to meet the quality assurance and quality control requirements or data validation requirements of 40 CFR 75, data must be substituted using the applicable missing data procedures from one (1) of the following:
 - (1) 40 CFR 75, Subpart D
 - (2) 40 CFR 75, Subpart H
 - (3) 40 CFR 75, Appendix D
 - (4) 40 CFR 75, Appendix E

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

D.34.6 Record Keeping Requirements

- (a) To document the compliance status with Condition D.34.1 and D.34.3, the Permittee shall maintain records of the fuel usage and percent heat input for the ozone control period.
- (b) To document the compliance status with Condition D.34.2, the Permittee shall record the output of the continuous monitoring systems and shall perform the required record keeping and reporting, pursuant to 326 IAC 3-5-6 and 326 IAC 3-5-7
- (c) In the event that a breakdown of the NOx continuous emission monitoring system (CEMS) occurs, the Permittee shall maintain records of all CEMS malfunctions, out of control periods, calibration and adjustment activities, and repair or maintenance activities.
- (d) Pursuant to 326 IAC 10-2-8 (Record Keeping and Reporting), the Permittee shall comply with the following record keeping and reporting requirements:
 - (1) Unless otherwise provided, the owners and operators of each large affected unit at the source shall keep on site each of the following documents:
 - (A) The current certificate of representation for the designated representative for each large affected unit, and all documents that demonstrate the truth of the statements in the certificate of representation.
 - (B) All emissions monitoring information, in accordance with 326 IAC 10-2-3 of this rule, with retention for a minimum of three (3) years.
 - (C) Copies of all reports and other submissions and all records made or required under this rule for a period of five (5) years from the date the document was created.
- (e) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

D.34.7 Reporting Requirement

- (a) Pursuant to 326 IAC 3-5-5(f)(1), the Permittee shall prepare and submit to IDEM, OAQ a written report for performance audits as follows:
 - (1) Owners or operators of emissions units required to conduct a:

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- (A) cylinder gas audit;
- (B) relative accuracy test audit; or
- (C) continuous opacity monitor calibration error audit;

on continuous emission monitors shall prepare a written report of the results of the performance audit for each calendar quarter, or for other periods required by the department. The owner or operator shall submit quarterly reports to the department within thirty (30) calendar days after the end of each quarter for cylinder gas audits and continuous opacity monitor calibration error audits and within forty-five (45) calendar days after the completion of the test for relative accuracy test audits.

- (2) The report must contain the information required by 326 IAC 3-5-5(f)(2).

The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).

- (b) Pursuant to 326 IAC 3-5-7(c)(4), reporting of continuous monitoring system instrument downtime, except for zero (0) and span checks, which shall be reported separately, shall include the following:
 - (1) date of downtime;
 - (2) time of commencement;
 - (3) duration of each downtime;
 - (4) reasons for each downtime; and
 - (5) nature of system repairs and adjustments.

The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (35).

- (c) Pursuant to 326 IAC 10-2-8 (Record Keeping and Reporting), the designated representative of each large affected unit at the source shall do the following:
 - (1) Submit quarterly reports to U.S. EPA of the NO_x mass emissions data and heat input data within thirty (30) days following the end of the calendar quarter covered by the report in the manner specified in 40 CFR 75.73(f).
 - (2) Submit to U.S. EPA a compliance certification, in a format prescribed by U.S. EPA, in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification must state that:
 - (A) the monitoring data submitted were recorded in accordance with the applicable requirements of this section and 40 CFR 75, including the quality assurance procedures and specifications;
 - (B) for a unit with add-on NO_x ozone season emission controls and for all hours where NO_x data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance and quality control program under 40 CFR 75, Appendix B and the substitute data values do not systematically underestimate NO_x emissions; and

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- (C) for a unit that is reporting on a control period basis under subsection (b)(2)(B), the NOx mass emission rate and NOx concentration values substituted for missing data under 40 CFR 75, Subpart D are calculated using only values from a control period and do not systematically underestimate NOx emissions.
- (3) The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(33).
- (d) Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition.

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SECTION D.35 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

No. 4 Boiler House

- (a) Two (2) Boilers, No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas, and fuel oil, with a maximum heat input of 500 MMBtu per hour, each, and exhausting through Stacks O46268 and O46269, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler, No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 500 MMBtu per hour, exhausting through Stack O46270.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

Turboblower Boiler House (TBBH)

- (a) Three (3) Boilers No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour, exhausting through Stack OT6275.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

- (c) One (1) Boiler No. 6, identified as OTB60467, constructed after August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276, with a continuous emissions monitoring system for NOx on the stack.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

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

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

D.35.1 Nitrogen Oxide Reduction Program for Specific Source Categories [326 IAC 10-3]

- (a) Pursuant to 326 IAC 10-3-1(a)(3), this rule applies to affected boilers, identified as O4B10459, O4B20460, O4B30461, OTB10462, OTB20463, OTB30464, OTB50466, and OTB60467, when combusting greater than fifty percent (50%) of its total heat input from the combustion of blast furnace gas averaged over an ozone control period.
- (b) Pursuant to 326 IAC 10-3-3(c), the Permittee shall comply with the following NOx emission limits for each ozone control period:

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- (1) NOx emissions shall be limited to seventeen-hundredths (0.17) pound of NOx per million British thermal units (lb/MMBtu) of heat input averaged over the ozone control period from each boiler, identified as O4B10459, O4B20460, O4B30461, OTB10462, OTB20463, OTB30464, OTB50466, and OTB60467.
- (2) Ensure that greater than fifty percent (50%) of heat input is derived from blast furnace gas average over an ozone control period.
- (3) During periods of blast furnace reline, startup, and period of malfunction, the affected boilers shall not be required to meet the requirement to derive fifty percent (50%) of the heat input from blast furnace gas.

Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.35.2 Nitrogen Oxide Reduction Program for Specific Source Categories [326 IAC 10-3]

Pursuant to 326 IAC 10-3-4(c) and 326 IAC 10-3-6:

- (a) During each ozone control period, to comply with Condition D.35.1, the Permittee shall monitor fuel usage and percentage of heat input derived from each fuel combusted from each boiler, identified as O4B10459, O4B20460, O4B30461, OTB10462, OTB20463, OTB30464, OTB50466, and OTB60467 to demonstrate that greater than fifty percent (50%) of the aggregate heat input is derived from blast furnace gas for each ozone control period; and
- (b) For purposes of determining the number of violations, if an affected boiler has excess emissions for an ozone control period, each day in the ozone control period constitutes a day in violation unless the Permittee demonstrates that a lesser number of days should be considered. There shall be no excess NOx emissions for the purposes of this section if the average emission rate for each boiler, identified as O4B10459, O4B20460, O4B30461, OTB10462, OTB20463, OTB30464, OTB50466, and OTB60467 during the ozone control period is less than the NOx emission limit in Condition D.35.1(b)(1).

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

D.35.3 Record Keeping Requirements

- (a) To document the compliance status with Condition D.35.2, the Permittee shall maintain records of the fuel usage and percent heat input for the ozone control period.
- (b) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the record keeping required by this condition.

D.35.4 Reporting Requirements

- (a) To document compliance with Conditions D.35.1, and pursuant to 326 IAC 10-3-5(e), the Permittee shall submit a report to the IDEM, OAQ documenting compliance with all applicable requirements of this rule in accordance with its site specific compliance plan detailed under 326 IAC 10-3-3(c) for the ozone control period of each year by October 31, beginning in 2004 and each year thereafter.
- (b) Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.
- (c) This report does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(33).

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SECTION E.1

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SECTION E.2

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SECTION F.1

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SECTION F.2

NSPS

Emissions Unit Description:

Material Screening

- (a) One (1) material screening operation, identified as Area Three Screening Station (CPS002), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (3) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 250 tons per hour, consisting of the following:
- (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) undersize discharge conveyor
 - (F) One (1) diesel engine, identified as CPS002-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII, this is considered an affected engine. Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (5) One (1) Area Three oversize stacker conveyor for loading railcars, constructed in 2015, with a maximum rated capacity of 400 tons per hour, driven by one (1) diesel engine, identified as CPS002-E2, with a maximum rated output of 38 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (b) One (1) material screening operation, identified as N-Yard Screening Station (CPS003), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (1) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 250 tons per hour, consisting of the following:
- (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) fines discharge conveyor
 - (F) One (1) diesel engine, identified as CPS003-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (2) One (1) N-Yard oversize stacker for loading railcars, constructed in 2015, with a maximum rated capacity of 400 tons per hour, driven by one (1) diesel engine identified as CPS003-E2, with a maximum rated output of 38 horsepower, model year 2014 or later.

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Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.

- (c) One (1) material screening operation, identified as Undersize Material Screening Station (CPS004), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (1) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 200 tons per hour, consisting of the following:
- (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) double deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) buckwheat discharge conveyor
 - (F) One (1) undersize discharge conveyor
 - (G) One (1) diesel engine, identified as CPS004-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII this is considered an affected engine. Under 40 CFR 63, Subpart ZZZZ this is considered an affected engine.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

F.2.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart IIII.
- (b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

F.2.2 Standards of Performance for Stationary Compression Ignition Internal Combustion Engine NSPS [326 IAC 12] [40 CFR Part 60, Subpart IIII]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart IIII (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

- (1) 40 CFR 60.4200(a)(3)
- (2) 40 CFR 60.4204(b)
- (3) 40 CFR 60.4206
- (4) 40 CFR 60.4207
- (5) 40 CFR 60.4208(c) and (d)

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- (6) 40 CFR 60.4209(b)
- (7) 40 CFR 60.4211(a), (c), and (g)
- (8) 40 CFR 60.4212
- (9) 40 CFR 60.4213(c)
- (10) 40 CFR 60.4218
- (11) 40 CFR 60.4219
- (12) Table 8 to 40 CFR 60, Subpart IIII

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SECTION F.3

Emissions Unit Description:

Turboblower Boiler House (TBBH)

- (c) One (1) Boiler No. 6, identified as OTB60467, constructed after August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276, with a continuous emissions monitoring system for NOx on the stack.

Under 40 CFR 60, Subpart D, this unit is considered an affected facility.

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

F.3.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart D.

- (b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

F.3.2 Standards of Performance for Fossil-Fuel-Fired Steam Generators NSPS [326 IAC 12] [40 CFR Part 60, Subpart D]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart D (included as Attachment D to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

- (1) 40 CFR 60.40(a), (b), and (c)
(2) 40 CFR 60.41
(3) 40 CFR 60.42(a)
(4) 40 CFR 60.44(a)(1)
(5) 40 CFR 60.45
(6) 40 CFR 60.46

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SECTION F.4

Emissions Unit Description:

Coal Pulverization and Air Preheater System (East PCI Coal Pulverization)

- (a) One (1) coal pulverization equipment train, identified as SS-1, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 1A, 1B and 1C.
- (b) One (1) coal pulverization equipment train, identified as SS-2, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 2A, 2B and 2C.
- (c) One (1) coal pulverization equipment train, identified as SS-3, that consists of a pulverizer with a maximum capacity of 90 tons per hour; a preheater with a maximum heat input capacity of 37.3 MMBtu per hour, and a dual process separation cyclone, constructed in 1993, and exhausting to one baghouse with three modules (three stacks) 3A, 3B and 3C.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Pulverized Coal Storage and Feed System (West PCI Coal Pulverization)

- (a) One (1) pulverized coal transport, identified as Line A, constructed in 1993, with a maximum capacity of 210 tons per hour, ducted to a baghouse (A) exhausting to stack (SS-5).
- (b) One (1) pulverized coal transport, identified as Line B, constructed in 1993, with a maximum capacity of 210 tons per hour, ducted to a baghouse (B) exhausting to stack (SS-6).
- (c) One (1) pulverized coal storage reservoir, constructed in 1993, with a maximum capacity of 600 tons, blanketed with nitrogen and ducted to a baghouse (vent filter house) exhausting to stack (SS-7).

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Coal Handling Operations

- (a) One (1) railcar dumper, identified as RCD-1, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse 8AB exhausting through one or two fans to stacks 8A and/or 8B.
- (b) One (1) Reclaim Hopper, identified as RCH-1, constructed in 1993, with a maximum capacity of 300 tons per hour, ducted to baghouse DC-6 and exhausting to stack DC-6.
- (c) One (1) Car Dump Hopper 1/C1, identified as FS-8, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to baghouse DC-1 exhausting to stack F1.
- (d) One (1) Car Dump Hopper 2/C1, identified as FS-9, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to a baghouse DC-2 exhausting to stack F2.
- (e) One (1) Car Dump Hopper 3/C1, identified as FS-10, constructed in 1993, with a maximum capacity of 200 tons per hour, ducted to a baghouse DC-3 exhausting to stack F3.

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- (f) One (1) Transfer Point C1/C2, identified as FS-2, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-4 exhausting to stack F4.
- (g) One (1) Reclaim Hopper/C2, identified as FS-14, constructed in 1993, with a maximum capacity of 300 tons per hour, ducted to a baghouse DC-5 exhausting to stack F5.
- (h) One (1) Screen Transfer/C2, identified as FS-3, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-7 exhausting to stack F7.
- (i) One (1) Screen/C3 Gate, Transfer, identified as FS-11, constructed in 1993, ducted to a baghouse DC-8 exhausting to stack F.
- (j) One (1) Screen/C4 Gate Transfer, identified as FS-12, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-9 exhausting to stack F9.
- (k) One (1) Transfer Point C4/C5, identified as FS-4, constructed in 1993, ducted to a baghouse DC-10 exhausting to stack F10.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

East Building – Coal Handling

- (a) One (1) Transfer Point C5/C6, identified as FS-5, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to a baghouse DC-11 exhausting to stack F11.
- (b) One (1) Transfer Point C6/Bin 1, identified as FS-7, constructed in 1993, ducted to baghouse DC-12 exhausting to stack F12.
- (c) One (1) Transfer Point C5/Bin 2, identified as FS-6, constructed in 1993, ducted to baghouse DC-13 exhausting to stack F13.
- (d) One (1) Transfer Point C6/Bin 3, identified as FS-13, constructed in 1993, with a maximum capacity of 600 tons per hour, ducted to baghouse DC-14 exhausting to stack F14.

Under 40 CFR 60, Subpart Y, these units are considered affected facilities.

Insignificant Activities:

- (f) Conveyors as follows:
 - (1) Covered conveyor for coal or coke conveying of less than or equal to 360 tons per day;
 - (2) Uncovered coal conveying of less than or equal to 120 tons per day.

Under 40 CFR 60, Subpart Y these units are considered affected facilities.

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

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New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

F.4.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart Y.

(b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

F.4.2 Standards of Performance for Coal Preparation Plants and Processing Plants NSPS [326 IAC 12] [40 CFR Part 60, Subpart Y]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Y (included as Attachment E to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

- (1) 40 CFR 60.250(a) and (b)
- (2) 40 CFR 60.251
- (3) 40 CFR 60.252(a)
- (4) 40 CFR 60.254(a)
- (5) 40 CFR 60.255(a)
- (6) 40 CFR 60.257

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SECTION F.5

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Emissions Unit Description:

Material Screening

- (a) One (1) material screening operation, identified as Area Three Screening Station (CPS002), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (3) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 250 tons per hour, consisting of the following:
- (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) undersize discharge conveyor
 - (F) One (1) diesel engine, identified as CPS002-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII, this is considered an affected engine. Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (5) One (1) Area Three oversize stacker conveyor for loading railcars, constructed in 2015, with a maximum rated capacity of 400 tons per hour, driven by one (1) diesel engine, identified as CPS002-E2, with a maximum rated output of 38 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (b) One (1) material screening operation, identified as N-Yard Screening Station (CPS003), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (1) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 250 tons per hour, consisting of the following:
- (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) single deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) fines discharge conveyor
 - (F) One (1) diesel engine, identified as CPS003-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.
- Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.
- (2) One (1) N-Yard oversize stacker for loading railcars, constructed in 2015, with a maximum rated capacity of 400 tons per hour, driven by one (1) diesel engine identified as CPS003-E2, with a maximum rated output of 38 horsepower, model year 2014 or later.

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Under 40 CFR 60, Subpart IIII, this is considered an affected engine.
Under 40 CFR 63, Subpart ZZZZ, this is considered an affected engine.

- (c) One (1) material screening operation, identified as Undersize Material Screening Station (CPS004), constructed in 2015 and permitted in 2023, consisting of the following equipment:
- (1) One (1) mobile screening unit, constructed in 2015, with a maximum rated capacity of 200 tons per hour, consisting of the following:
- (A) One (1) feed hopper
 - (B) One (1) feed conveyor
 - (C) One (1) double deck screener, equipped with an enclosure (full boot) covering the screen area and screen transfer points
 - (D) One (1) oversize discharge conveyor
 - (E) One (1) buckwheat discharge conveyor
 - (F) One (1) undersize discharge conveyor
 - (G) One (1) diesel engine, identified as CPS004-E1, with a maximum rated output of 111 horsepower, model year 2014 or later.

Under 40 CFR 60, Subpart IIII this is considered an affected engine. Under 40 CFR 63, Subpart ZZZZ this is considered an affected engine.

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

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

F.5.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

F.5.2 National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines NESHAP [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment F to the operating permit), which are incorporated by reference as 326 IAC 20-82, for the emission unit(s) listed above:

- (1) 40 CFR 63.6580
- (2) 40 CFR 63.6585(a) and (b)
- (3) 40 CFR 63.6590(a)(2)(ii) and (c)(7)
- (4) 40 CFR 63.6665

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- (5) 40 CFR 63.6670
- (6) 40 CFR 63.6675

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SECTION F.6

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SECTION F.7

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SECTION F.8

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SECTION F.9

NESHAP

Emissions Unit Description:

Recycling Plant

- (c) Two (2) Strands, identified as ISS10379 and ISS30381, constructed in 1958, each with 50 MMBtu per hour duct burners combusting natural gas identified as ISB001 and ISB003 and a maximum capacity of 225 tons of product per hour each, each with ignition hood burners with a combined heat input of 50 MMBtu/hr combusting natural gas, controlled by two (2) Windbox Gas Cleaning Systems IS3203 and IS3204, installed in 1996, each comprised of a Quench Reactor, Dry Venturi Scrubber, a baghouse operated in series, exhausting to Windbox stacks IS6198 and IS6199 which are equipped with VOC CEMS.
- (d) Two (2) Coolers, identified as ISC10385 and ISC30387, constructed in 1958, with a maximum capacity of 225 ton per hour each, with emissions exhausting to stacks IS6203 and IS6205 respectively.
- (e) Two (2) Strand Discharge End Areas, identified as ISS10379 and ISS0381, constructed in 1958, using two (2) baghouses as control devices, designated as IS3205 and IS3207, exhausting to stacks IS6200 and IS6202 respectively.
- (f) One (1) Cold Screen Station, identified as ISR00389, constructed in 1958, with maximum capacity of 450 tons per hour, using a Baghouse IS3209 as a control device and exhausting to stack IS6207.
- (g) One (1) S1/S2 Conveyer System, identified as ISY00388, constructed in 1979, with a maximum capacity of 450 tons per hour, that transfers product from the coolers to the cold screening station, using a baghouse IS3208 as a control device and exhausting to stack IS6206.

The Recycling Plant is formerly known as the Number 3 Sinter Plant. Under 40 CFR 63, Subpart FFFFF, the emission units identified in (c) through (e) are considered affected facilities because they meet the definition of Sinter Plant per the Subpart FFFFF regulation.

Blast Furnaces

- (d) No. 4 Blast Furnace, constructed in 1917, with a maximum capacity of 200 tons per hour, identified as IABF0308, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal at a rate of 26 tons per hour, oil (from on-site contractor when it meets specifications) at a rate of 70 gallons per minute and/or coal tar (when the on-site contractor tar centrifuge is not operating) at a rate of 70 gallons per minute.
 - (1) Three (3) No. 4 Blast Furnace Stoves identified as IAST0360, replaced in 1947, with a maximum heat input capacity of 350 MMBtu per hour total combusting blast furnace gas (BFG) and natural gas, exhausting to the combustion stack IA6160.
 - (2) No. 4 Blast Furnace Casthouse, identified as IABF0308, constructed in 1917, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IA3177, exhausting to casthouse roof monitor IA6010.

Under 40 CFR 63, Subpart FFFFF, the No. 4 Blast Furnace is considered as an affected facility.

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(e) No. 6 Blast Furnace, constructed in 1910, with a maximum capacity of 200 tons per hour, identified as IABFO341, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 26 tons per hour, oil at a rate of 70 gallons per minute and /or coal tar at a rate of 70 gallons per minute.

(1) Four (4) No. 6 Blast Furnace Stoves, identified as IBST0361, replaced in 1997, with a maximum heat input capacity of 350 MMBtu per hour total, combusting Blast Furnace Gas (BFG) and natural gas exhausting to the combustion stack IB6168.

(2) No. 6 Blast Furnace Casthouse, identified as IBBF0341, constructed in 1910, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IB3178, exhausting to casthouse roof monitor IB6011.

Under 40 CFR 63, Subpart FFFFF, the No. 6 Blast Furnace is considered as an affected facility.

(f) No. 8 Blast Furnace, constructed in 1909, with a maximum capacity of 183 tons per hour, identified as ICBFO354, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 26 ton per hour, oil at a rate of 70 gallons per minute and/or coal tar at a rate of 70 gallons per minute.

(1) Four (4) No. 8 Blast Furnace Stoves, identified as ICST0362, replaced in 1999, with a maximum heat input capacity of 325 MMBtu per hour total, combusting Blast Furnace Gas and natural gas, exhausting to the combustion stack IC6175.

(2) No. 8 Blast Furnace Casthouse, identified as ICBF0354, constructed in 1909, with emissions from tapping and runners controlled by a natural gas iron oxide fume suppression system IC3179, exhausting to cast house roof monitor IC6012.

Under 40 CFR 63, Subpart FFFFF, the No. 8 Blast Furnace is considered as an affected facility.

(g) No. 14 Blast Furnace, constructed in 1974, with a maximum capacity of 450 tons per hour, identified as IDBF0369, using a Blast Furnace Gas Distribution System to collect the blast furnace gas and using natural gas injection and pulverized coal injected at a rate of 80 tons per hour, oil at a rate of 150 gallons per minute and/or coal tar at a rate of 150 gallons per minute.

(1) Three (3) No. 14 Blast Furnace Stoves identified as IDST0359, constructed in 1974, with a maximum heat input capacity of 700 MMBtu per hour total, combusting blast furnace gas and natural gas, exhausting to the combustion stack ID6184;

(2) No. 14 Blast Furnace Casthouse, identified as IDBF0369, constructed in 1974 with emissions controlled by a baghouse, identified as ID3185, exhausting to stack ID6187 and fugitive emissions exhausting through the casthouse roof monitor ID6013;

Under 40 CFR 63, Subpart FFFFF, the No. 14 Blast Furnace is considered as an affected facility.

(h) One (1) No. 14 Blast Furnace Slag Granulation Plant owned by U.S. Steel - Gary Works and operated by U.S. Steel - Gary Works as part of the slag processing operation. The granulation

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plant has a maximum capacity of 1,704,000 tons of steel mill slag per year, consisting of the following:

- (1) One (1) hot slag quenching operation, constructed in 1991, directed to a hooded exhaust stack.
- (2) Two (2) silos, constructed in 1991, for temporary slag storage.
- (3) Two (2) belt conveyers, constructed in January 1995.
- (4) One (1) storage silo and loadout bay, constructed in May 1995, with a capacity of 400,000 tons per year.

Under 40 CFR 63, Subpart FFFFF, the Blast Furnace Slag Granulation Plant is considered as an affected facility.

Number One Basic Oxygen Process (BOP) Shop

- (a) Two (2) Stations, identified as No. 1 and No. 2 Hot Metal Transfer and Desulfurization Stations. The Desulfurization Stations were originally constructed in 1981 and the Hot Metal Transfer Stations were originally constructed in 1965, and replaced in 1998. Each station consists of Hot Metal Desulfurization, SS0201, Hot Metal Transfer SSMT0203 and Slag Skimming SSS0205. Hot metal from the blast furnaces is desulfurized and skimmed prior to charging in the steel making vessels. The maximum capacity of each station is 456 tons per hour. Each station is equipped with a local exhaust ventilation hood to capture emissions ducted to the Hot Metal Desulfurization/Skimming Stations Baghouse SS3100. The desulfurization units are equipped with nitrogen suppression around where the desulfurization lance penetrates the hood hole.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (c) Basic Oxygen Process (BOP) Vessels, constructed in 1965, consisting of BOP vessel M, identified as SSVM0234, vessel E, identified as SSVE0235 and vessel D, identified as SSVD0236, with a maximum capacity of 250 tons per hour each. Emissions are controlled by open combustion hoods and an exhaust emission hood collection system, which exhausts emissions to the Gas Cleaning Systems SS3103 and SS3104.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (j) One emergency slag skimming station, with a maximum capacity of 456 tons per hour, exhausting to the roof monitor SS6636.

Under 40 CFR 63, Subpart FFFFF, this unit is considered as an affected facility.

Number Two Q-BOP Shop

- (a) Two (2) Hot Metal Transfer and Desulfurization Stations, identified as NSDS0246, constructed in 1987, with a maximum capacity of 510 tons per hour. These stations included: two (2) Hot Metal Mixers, identified as NSMM0264 and two (2) Hot Metal Mixer Heaters, identified as NSMH0251, constructed in 1973, with a maximum capacity of 255 tons per hour. The natural gas-fired mixer heaters have a heat input capacity of 10 MMBtu/hr each. Emissions from the hot metal transfer and desulfurization stations, mixers and heaters are controlled by the Hot Metal Transfer and Desulfurization Stations Baghouse NS3115, discharging through NS6144 and the uncontrolled emissions go through roof monitor NS6631.

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Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (b) Q-Basic Oxygen Process (BOP) vessels, constructed in 1973, consisting of BOP vessel T identified as NSVT0268, vessel W, identified as NSVW0269, and vessel Y, identified as NSVY0270, with a maximum capacity of 250 tons per hour each. Primary emissions are controlled by open combustion hood and two (2) Gas Cleaning Systems, secondary emissions are controlled by the Secondary Emissions Control Baghouse NS3124, exhausting to stack NS6123, and uncontrolled emissions exhaust through Roof Monitor NS6632.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

- (e) Three (3) Ladle Metallurgical Facilities, LMF 1 identified as NSL10293, LMF 2 identified as NSL20294 were constructed in 1986 and LMF 3 identified as NSL30295, constructed in 1991 with a maximum capacity of 348 tons per hour each. Hot fume emissions from LMF 1 and 2 are controlled by Nos. 1 and 2 LMF Hot Fume Exhaust baghouses NS3135 and NS3136, exhausting through stacks NS6146 and NS6147. Material handling emissions at LMF 1 and 2 are controlled by the LMF Nos. 1 and 2 Material Handling baghouse NS3052, exhausting through stack NS6055. The LMF 3 Hot Fume Exhaust and Material Handling emissions are controlled by the LMF 3 Hot Fume and Material Handling Baghouse NS3137, exhausting to stack NS6148. All uncontrolled emissions exhaust through the roof monitor NS6634.

Under 40 CFR 63, Subpart FFFFF, these units are considered affected facilities.

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

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

F.9.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart FFFFF.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

F.9.2 Integrated Iron and Steel Manufacturing Facilities NESHAP [40 CFR Part 63, Subpart FFFFF] [326 IAC 20-93]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart FFFFF (included as Attachment J to the operating permit), which are incorporated by reference as 326 IAC 20-93.

- (a) ISS10379, ISS30381, ISR00389, ISY00388, ISC10385, ISC30387, ISS10379, ISS0381, IABF0308, IABFO341, ICBFO354, IDBF0369, No. 14 Blast Furnace Slag Granulation Plant, No. 1 and No. 2 Hot Metal Transfer and Desulfurization Stations, SSVM0234, SSVE0235, SSVD0236, NSDS0246, NSL10293, NSL20294, NSL30295, and NSVD0271:

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- (1) 40 CFR 63.7780
- (2) 40 CFR 63.7781
- (3) 40 CFR 63.7782(a), (b), (c), and (d)
- (4) 40 CFR 63.7783(a), (e), (f), and (g)
- (5) 40 CFR 63.7790(a), (b), (c) and (d)
- (6) 40 CFR 63.7791
- (7) 40 CFR 63.7792
- (8) 40 CFR 63.7793
- (9) 40 CFR 63.7800
- (10) 40 CFR 63.7810
- (11) 40 CFR 63.7820
- (12) 40 CFR 63.7821
- (13) 40 CFR 63.7822
- (14) 40 CFR 63.7823
- (15) 40 CFR 63.7824
- (16) 40 CFR 63.7825
- (17) 40 CFR 63.7826
- (18) 40 CFR 63.7830
- (19) 40 CFR 63.7831
- (20) 40 CFR 63.7832
- (21) 40 CFR 63.7833
- (22) 40 CFR 63.7834
- (23) 40 CFR 63.7835
- (24) 40 CFR 63.7840
- (25) 40 CFR 63.7841
- (26) 40 CFR 63.7842
- (27) 40 CFR 63.7843
- (28) 40 CFR 63.7850
- (29) 40 CFR 63.7851
- (30) 40 CFR 63.7852
- (31) Table 1 to 40 CFR Part 63, Subpart FFFFF
- (32) Table 2 to 40 CFR Part 63, Subpart FFFFF
- (33) Table 3 to 40 CFR Part 63, Subpart FFFFF
- (34) Table 4 to 40 CFR Part 63, Subpart FFFFF
- (35) Table 5 to 40 CFR Part 63, Subpart FFFFF
- (36) Table 6 to 40 CFR Part 63, Subpart FFFFF

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SECTION F.10

NESHAP

Emissions Unit Description:

Continuous Pickling Lines

- (a) One (1) 84-inch Pickle Line, the North Continuous Pickle Line, identified as HWPO0625, constructed in 1968, with a maximum capacity of 314 tons per hour consisting of four (4) pickle tanks and two (2) rinse tanks (hot and cold). Emissions at this pickle line are controlled by a fume exhaust scrubber, HW3545 exhausting to stack HW6525.
- (b) One (1) 80-inch Pickle Line, the South Continuous Pickle Line, identified as HMPO0589, constructed in 1948, with a maximum capacity of 91 tons per hour, consisting of three (3) pickle tanks and two (2) rinse tanks (hot and cold). Emissions are controlled by a fume exhaust scrubber, HM3540, exhausting to stack HM6520.

Under 40 CFR 63, Subpart CCC, these units are considered affected facilities.

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

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

**F.10.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under
40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]**

- (a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart CCC.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

**F.10.2 Steel Pickling--HCl Process Facilities and Hydrochloric Acid Regeneration Plants NESHAP
[40 CFR Part 63, Subpart CCC] [326 IAC 20-29]**

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart CCC (included as Attachment K to the operating permit), which are incorporated by reference as 326 IAC 20-29, for the emission unit(s) listed above:

- (1) 40 CFR 63.1155
- (2) 40 CFR 63.1156
- (3) 40 CFR 63.1157
- (4) 40 CFR 63.1158
- (5) 40 CFR 63.1159
- (6) 40 CFR 63.1160(a)(1) and (b)
- (7) 40 CFR 63.1161
- (8) 40 CFR 63.1162(a) and (c)

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- (9) 40 CFR 63.1163(a)(2), (d), and (e)
- (10) 40 CFR 63.1164
- (11) 40 CFR 63.1165
- (12) 40 CFR 63.1166
- (13) Table 1 to 40 CFR Part 63, Subpart CCC

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SECTION F.11

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SECTION F.12

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SECTION F.13

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SECTION F.14

NESHAP

Emissions Unit Description:

Sheet Products Division

(a) North Sheet Mill

- (2) Twenty-six (26) 4-Stack A Box Annealing Furnaces and 50 bases, identified as HTAF0813 through HTAF0838, constructed in 1964, with a heat input capacity of 12 MMBtu per hour each. These furnaces are indirect fired with emissions exhausting through vent pipes HT6530 through HT6555.

Under 40 CFR 63, Subpart DDDDD, these are considered existing process heaters.

(b) South Sheet Mill

- (1) Seventeen (17) 8-Stack A Box Annealing furnaces and 66 bases, identified as HXBA0560 through HXBA0576, constructed in 1948. Eleven (11) furnaces have a heat input capacity of 15 MMBtu per hour each and the remaining six (6) are rated at 18 MMBtu per hour each. Emissions from these furnaces exhaust through the Roof Monitor HX6003.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

- (3) One (1) No. 6 East Galvanizing Line, constructed in 1962, with a maximum capacity of 48 tons an hour, with one (1) annealing furnace, identified as H6F10527, with a heat input of 45 MMBtu per hour and emissions through stack H66516. Also, contains one (1) Galvanneal Furnace identified as HF20529 with a heat input capacity of 20.0 MMBtu per hour and emissions exhausting through Roof Monitor H66006.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

- (4) Two (2) hydrogen atmosphere batch annealing furnaces, with a total heat input capacity of 10.26 MMBtu per hour, constructed in 1997, consisting of three (3) fixed bases and two (2) movable cooling hoods, exhausting to the indoors.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

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- (c) One (1) Annealing Line, identified as No. 2 Continuous Anneal Line, constructed in 1959, containing an annealing furnace, identified as T2AF0799, with a maximum heat input capacity of 35 MMBtu per hour. Emissions exhaust to stack T26610. The No. 2 Continuous Anneal Line has a cleaning section with fumes collected in a fume scrubber exhausting through a stack.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

- (d) Five (5) 4-Stack A Box Annealing Furnaces and 12 bases, identified as TXAF0765 through TXAF0769, constructed in 1968. All furnaces have a heat input of 10.5 MMBtu per hour each. Emissions exhaust to stacks TX6580 through TX6584.

Under 40 CFR 63, Subpart DDDDD, this is considered an existing process heater.

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No. 4 Boiler House [Section D.14]

- (a) Two (2) Boilers, No. 1 and No. 2, identified as O4B10459 and O4B20460, constructed in 1967, equipped to combust natural gas, blast furnace gas, and fuel oil, with a maximum heat input of 500 MMBtu per hour, each, exhausting through Stacks O46268 and O46269, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler, No. 3, identified as O4B30461, constructed in 1967, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 500 MMBtu per hour, exhausting through Stack O46270.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

Turboblower Boiler House (TBBH) [Section D.15]

- (a) Three (3) Boilers No. 1, No. 2 and No. 3, identified as OTB10462, OTB20463 and OTB30464, constructed in 1948, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour each, exhausting through Stacks OT6271, OT6272 and OT6273, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered an affected facility.

- (b) One (1) Boiler No. 5, identified as OTB50466, constructed in 1958, equipped to combust blast furnace gas and natural gas, with a maximum heat input of 410 MMBtu per hour, exhausting through Stack OT6275.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

- (c) One (1) Boiler No. 6, identified as OTB60467, constructed after August 17, 1971, equipped to combust blast furnace gas and natural gas, with a maximum heat input capacity of 710 MMBtu per hour, exhausting through Stack OT6276, with a continuous emissions monitoring system for NO_x on the stack.

Under 40 CFR 60, Subpart D, this unit is considered an affected facility.

Under 40 CFR 63, Subpart DDDDD, this unit is considered an affected facility.

Insignificant Activities:

- (qq) Two (2) natural gas-fired boilers, identified as ETF-1 and ETF-2, permitted in 2016, each with a maximum capacity of 6.27 MMBtu/hr, equipped with low NO_x burners and flue gas recirculation, and exhausting to stack ETF-1a and ETF-2a, respectively.

Under 40 CFR 63, Subpart DDDDD, these units are considered new industrial boilers.

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

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

**F.14.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under
40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]**

- (a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart DDDDD.
- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

**F.14.2 Industrial for Institutional, Commercial, and Industrial Boilers and Process Heaters NESHAP
[40 CFR Part 63, Subpart DDDDD] [326 IAC 20-95]**

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart DDDDD (included as Attachment O to the operating permit), which are incorporated by reference as 326 IAC 20-95.

- (a) HTAF0813 through HTAF0838, HXBA0560 through HXBA0576, H6F10527, hydrogen atmosphere batch annealing furnaces, No. 2 Continuous Anneal Line, and TXAF0765 through TXAF0769:
- (1) 40 CFR 63.7480
 - (2) 40 CFR 63.7485
 - (3) 40 CFR 63.7490(a)(1) and (d)
 - (4) 40 CFR 63.7495(b) and (d)
 - (5) 40 CFR 63.7499(l) and (n)
 - (6) 40 CFR 63.7500(a)(1), (a)(3), (b), and (f)
 - (7) 40 CFR 63.7505(a)
 - (8) 40 CFR 63.7510(e)
 - (9) 40 CFR 63.7515(d)
 - (10) 40 CFR 63.7530(e)
 - (11) 40 CFR 63.7540(a)(10) and (13)
 - (12) 40 CFR 63.7545(a), (b), (e), and (f)
 - (13) 40 CFR 63.7550(a), (b), (c)(1), (c)(5), and (h)(3)
 - (14) 40 CFR 63.7555(a)(1) and (a)(2)
 - (15) 40 CFR 63.7560
 - (16) 40 CFR 63.7565
 - (17) 40 CFR 63.7570
 - (18) 40 CFR 63.7575
 - (19) Table 3 to 40 CFR Part 63, Subpart DDDDD
 - (20) Table 9 to 40 CFR Part 63, Subpart DDDDD
 - (21) Table 10 to 40 CFR Part 63, Subpart DDDDD
- (b) ETF-1 and ETF-2:
- (1) 40 CFR 63.7480
 - (2) 40 CFR 63.7485
 - (3) 40 CFR 63.7490(a)(2) and (b)
 - (4) 40 CFR 63.7495(a) and (d)

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- (5) 40 CFR 63.7499(l)
- (6) 40 CFR 63.7500(a)(1), (a)(3), (b), and (e)
- (7) 40 CFR 63.7505(a)
- (8) 40 CFR 63.7510(g)
- (9) 40 CFR 63.7515(d)
- (10) 40 CFR 63.7540(a)(11) and (13)
- (11) 40 CFR 63.7545(a), (c), (e)
- (12) 40 CFR 63.7550(a), (b), (c)(1), (c)(5), and (h)(3)
- (13) 40 CFR 63.7555(a)(1) and (2)
- (14) 40 CFR 63.7560
- (15) 40 CFR 63.7565
- (16) 40 CFR 63.7570
- (17) 40 CFR 63.7575
- (18) Table 3 to 40 CFR Part 63, Subpart DDDDD
- (19) Table 9 to 40 CFR Part 63, Subpart DDDDD
- (20) Table 10 to 40 CFR Part 63, Subpart DDDDD

F.14.3 Industrial for Institutional, Commercial, and Industrial Boilers and Process Heaters NESHAP
[40 CFR Part 63, Subpart DDDDD]

- (a) The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart DDDDD (included as Attachment O to the operating permit), which are incorporated by reference as 326 IAC 20-95, for the boilers, identified as O4B10459, O4B20460, O4B30461, OTB10462, OTB20463, OTB30464, OTB50466, and OTB60467 unless the emission unit satisfies an exemption in 40 CFR 63.7491(k). Blast furnace gas fuel-fired boilers and process heaters, as defined in 40 CFR 63.7575, are exempt from the requirements of Subpart DDDDD. Non-exempt units in the units designed to burn gas fuels subcategory, as defined in 40 CFR 63.7575, and shall be in compliance no later than the compliance date specified in 40 CFR 63.7495, as follows:
- (1) 40 CFR 63.7480
 - (2) 40 CFR 63.7485
 - (3) 40 CFR 63.7490
 - (4) 40 CFR 63.7495(b), (d), and (h)
 - (5) 40 CFR 63.7499(l), (n)
 - (6) 40 CFR 63.7500(a)(1), (a)(3), (b), (e)
 - (7) 40 CFR 63.7505(a)
 - (8) 40 CFR 63.7510(e), (j), and (k)
 - (9) 40 CFR 63.7515(d) and (g)
 - (10) 40 CFR 63.7530(e) and (f)
 - (11) 40 CFR 63.7540(a)(10) and (13)
 - (12) 40 CFR 63.7545(a), (b), (e)(1), (e)(6) through (8), and (f) through (h)
 - (13) 40 CFR 63.7550(a), (b), (c)(1), (c)(5)(i) through (iv), (c)(5)(xiv), and (h)(3)
 - (14) 40 CFR 63.7555(a)(1) and (h)
 - (15) 40 CFR 63.7560
 - (16) 40 CFR 63.7565
 - (17) 40 CFR 63.7570
 - (18) 40 CFR 63.7575
 - (19) Table 3
 - (20) Table 9
 - (21) Table 10
- (b) The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart DDDDD (included as Attachment O to the operating permit), which are incorporated by reference as 326 IAC 20-95, for the boilers, identified as O4B10459 and O4B20460, unless the emission unit satisfies an exemption in 40 CFR 63.7491(k). Blast furnace gas

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fuel-fired boilers and process heaters, as defined in 40 CFR 63.7575, are exempt from the requirements of Subpart DDDDD. Non-exempt units in the units designed to burn liquid fuels subcategory, as defined in 40 CFR 63.7575, shall be in compliance no later than the compliance date specified in 40 CFR 63.7495, as follows:

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490
- (4) 40 CFR 63.7495(b), (d), (f), and (h)
- (5) 40 CFR 63.7499(q), (t), (u)
- (6) 40 CFR 63.7500(a) through (b) and (f)
- (7) 40 CFR 63.7505
- (8) 40 CFR 63.7510(a) through (e) and (i) through (k)
- (9) 40 CFR 63.7515
- (10) 40 CFR 63.7520
- (11) 40 CFR 63.7521(a) through (e)
- (12) 40 CFR 63.7522
- (13) 40 CFR 63.7525
- (14) 40 CFR 63.7530
- (15) 40 CFR 63.7533
- (16) 40 CFR 63.7535
- (17) 40 CFR 63.7540
- (18) 40 CFR 63.7541
- (19) 40 CFR 63.7545(a), (d), (e), and (h)
- (20) 40 CFR 63.7550
- (21) 40 CFR 63.7555(a) through (f)
- (22) 40 CFR 63.7560
- (23) 40 CFR 63.7565
- (24) 40 CFR 63.7570
- (25) 40 CFR 63.7575
- (26) Table 2
- (27) Table 3

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SECTION F.15

NESHAP

Emissions Unit Description:

Environmental Treatment Facility (ETF) Remediation Area – Group of Remediation Material Management Units, as follows:

Description	Construction Date
Conveyance Piping for Source Area Extraction Wells	2017
East-side ISM Source Area Oil Water Separator	2014
Conveyance Piping for Containment Area Extraction	2014
1W Sump Pit	1998
7300 Tank	1998
7100 Tank	1998
7110 Tank	1998
7120 Tank	1998
7400 Tank	1998
7410 Tank	1998
Sludge belt	1998

Corrective Action Management Unit (CAMU) Remediation Area – Group of Remediation Material Management Units, as follows:

Description	Construction Date
Unit 1 Surface Impoundment	2003
Unit 2 Surface Impoundment	2003
Conveyance piping from CAMU units over to WWTP and including piping through WWTP	2002
T002, WW Holding Tank	2023 (refurbished)
T003, WW Neutralization Tank	2023
T004, WW Sand Pressure Filters	2023
Wastewater Treatment System Strainer	2023
CF006A & CF006B, WW Carbon Canister Tanks	2023 (refurbished)

Miscellaneous drums (Containers >26.41 gals & <121.5 gals) and totes/rolloffs (Containers >121.5 gals) that meet the definition of Remediation Material Management Units.

Under 40 CFR 63, Subpart GGGGG these groups of remediation material management units are considered affected sources.

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

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

F.15.1 General Provisions Relating to National Emission Standards for Hazardous Air Pollutants under 40 CFR Part 63 [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart GGGGG.

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- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

F.15.2 Site Remediation NESHAP [40 CFR Part 63, Subpart GGGGG]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart GGGGG (included as Attachment R to the operating permit).

- (1) 40 CFR 63.7881
- (2) 40 CFR 63.7882
- (3) 40 CFR 63.7883
- (4) 40 CFR 63.7884
- (5) 40 CFR 63.7886
- (6) 40 CFR 63.7888
- (7) 40 CFR 63.7895
- (8) 40 CFR 63.7896
- (9) 40 CFR 63.7897
- (10) 40 CFR 63.7898
- (11) 40 CFR 63.7900
- (12) 40 CFR 63.7901
- (13) 40 CFR 63.7902
- (14) 40 CFR 63.7903
- (15) 40 CFR 63.7905
- (16) 40 CFR 63.7906
- (17) 40 CFR 63.7907
- (18) 40 CFR 63.7908
- (19) 40 CFR 63.7910
- (20) 40 CFR 63.7911
- (21) 40 CFR 63.7912
- (22) 40 CFR 63.7913
- (23) 40 CFR 63.7915
- (24) 40 CFR 63.7916
- (25) 40 CFR 63.7917
- (26) 40 CFR 63.7918
- (27) 40 CFR 63.7925
- (28) 40 CFR 63.7926
- (29) 40 CFR 63.7927
- (30) 40 CFR 63.7928
- (31) 40 CFR 63.7935
- (32) 40 CFR 63.7937
- (33) 40 CFR 63.7938
- (34) 40 CFR 63.7940
- (35) 40 CFR 63.7941
- (36) 40 CFR 63.7943
- (37) 40 CFR 63.7944
- (38) 40 CFR 63.7950
- (39) 40 CFR 63.7951
- (40) 40 CFR 63.7952
- (41) 40 CFR 63.7953
- (42) 40 CFR 63.7955

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- (43) 40 CFR 63.7956
- (44) 40 CFR 63.7957
- (45) Table 1
- (46) Table 2
- (47) Table 3

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

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MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865
EMAIL: AirCompl@idem.in.gov**

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Permit No.: T089-46943-00121

For any malfunction lasting one (1) hour or longer, the Permittee must submit this form to the Office of Air Quality (OAQ), within four (4) daytime business hours of malfunction start.

If any of the following are not applicable, mark N/A. This form consists of two (2) pages.

Page 1 of 2

This malfunction resulted in a violation of the following Indiana Administrative Code, permit condition, and/or permit limit and meets the definition of "malfunction" as listed on reverse side (e.g., 326 IAC 5-1, Permit Condition D.1.1, 40 CFR 60.62, etc.):

Describe affected facility/equipment/operation (e.g., Coating Line #2, Boiler D, Diesel engine, No. 3 smelter, etc.):

Control equipment (e.g., Baghouse B4, Thermal oxidizer for Paint Line #1, etc.):
--

Description of the malfunction and cause:

When the malfunction started:	Date (MM/DD/YYYY):
	Time (HH:MM):
When the malfunction was corrected or is expected to be corrected:	Date (MM/DD/YYYY):
	Time (HH:MM):

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Type of pollutant(s) emitted (e.g., PM, PM10, PM2.5, VOC, etc.):
Estimated amount of pollutant(s) emitted during malfunction (e.g., VOC at 35 lbs/hr, 5 tons of PM, etc.):
Describe the corrective actions and interim control measures taken to minimize emissions (e.g., shut coating line down, isolated failing baghouse compartment, idled furnace operations until repairs completed, etc.):

Form completed by: _____

Title/position: _____

Signature: _____

Date: _____

Phone: _____

Email: _____

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1, 326 IAC 2-6.1, 326 IAC 2-7, or 326 IAC 2-8.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Strand Windbox Recirculating Burners (ISB001 and ISB003)
Parameter: Natural gas usage
Limit: Shall be less than 1,637.4 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: No. 14 Blast Furnace Slag Granulation Plant
Parameter: Total granulation plant throughput
Limit: Shall not exceed 1,704,000 tons per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: South Sheet Mill Hydrogen Atmosphere Batch Annealing Furnaces
Parameter: Natural gas usage
Limit: Shall not exceed 37.2 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Turboblower Boiler House (TBBH) Boiler No. 6 Stack OT6276
Parameter: Blast furnace gas and natural gas
Limits: Shall not exceed 432.21 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	NOx Emissions (tons) This Month	NOx Emissions (tons) Previous 11 Months	NOx Emissions (tons) 12 Month Total

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Coal Pulverization and Air Preheater System (East PCI Coal Pulverization) Air Preheaters 1, 2 and 3 combined (former Gary Coal Processing, LP)
Parameter: Natural gas usage
Limit: Shall be limited to less than 549 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month and less than 183 million cubic feet (MMCF) per month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Railcar Heater - Thaw Shed (PCI Coal Handling Thaw Shed) (former Gary Coal Processing, LP)
Parameter: Natural gas usage
Limit: Shall be limited to less than 12.504 million cubic feet (MMCF) per twelve (12) consecutive month period with compliance demonstrated at the end of each month and less than 5 million cubic feet (MMCF) per month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Rail Car Unloading Station (CPS0001)
Parameter: Coke unloaded
Limit: Shall not exceed 1,000,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Material Screening Operations (CPS002, CPS003, and CPS004)
Parameter: PM emissions
Limit: Shall not exceed 24.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM Emissions (tons) This Month	PM Emissions (tons) Previous 11 Months	PM Emissions (tons) 12 Month Total

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Material Screening Operations (CPS002, CPS003, and CPS004)
Parameter: PM10 emissions
Limit: Shall not exceed 14.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM10 Emissions (tons) This Month	PM10 Emissions (tons) Previous 11 Months	PM10 Emissions (tons) 12 Month Total

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Material Screening Operations (CPS002, CPS003, and CPS004)
Parameter: PM2.5 emissions
Limit: Shall not exceed 9.90 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM2.5 Emissions (tons) This Month	PM2.5 Emissions (tons) Previous 11 Months	PM2.5 Emissions (tons) 12 Month Total

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

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Usage Report

(Submit Report Quarterly)

Source Name: U.S. Steel Corporation - Gary Works
 Source Address: One North Broadway, Gary, Indiana 46402
 Part 70 Permit No.: T089-46943-00121
 Facility: South Plant Unit 02, excluding the PM, PM10 and PM2.5 emissions from the fines stockpiles and paved and unpaved roads
 Parameter: PM, PM10 and PM2.5 emissions
 Limit: Shall be limited to a total of less than 18.7 tons per twelve consecutive month period, to a total of less than 12.9 tons per twelve consecutive month period, and to a total of less than 9.7 tons per twelve consecutive month period, respectively, with compliance determined at the end of each month.

Month: _____ Year: _____

Day	PM Emissions (tons/day)	PM10 Emissions (tons/day)	PM2.5 Emissions (tons/day)	Day	PM Emissions (tons/day)	PM10 Emissions (tons/day)	PM2.5 Emissions (tons/day)
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16				Total This Month			
				Previous 11 Months			
				12 Month Total			

No deviation occurred in this month.

Deviation/s occurred in this month.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Air Sparging System (Area 2 Sparging)
Parameter: Benzene emissions
Limit: Shall not exceed 9.75 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Portable pellet screening operation, material handling, storage piles, and unpaved roads
Parameter: PM emissions
Limit: Shall not exceed 24.9 tons of PM per twelve consecutive month period with compliance at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM Emissions (tons) This Month	PM Emissions (tons) Previous 11 Months	PM Emissions (tons) 12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Portable pellet screening operation, material handling, storage piles, and unpaved roads
Parameter: PM10 emissions
Limit: Shall not exceed 14.9 tons of PM10 per twelve consecutive month period with compliance at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM10 Emissions (tons) This Month	PM10 Emissions (tons) Previous 11 Months	PM10 Emissions (tons) 12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Portable pellet screening operation, material handling, storage piles, and unpaved roads
Parameter: PM2.5 emissions
Limit: Shall not exceed 9.9 tons of PM2.5 per twelve consecutive month period with compliance at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM2.5 Emissions (tons) This Month	PM2.5 Emissions (tons) Previous 11 Months	PM2.5 Emissions (tons) 12 Month Total

No deviation occurred in this quarter.

Deviation/s occurred in this quarter.

Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

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**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Pig Iron Caster
Parameter: PM Emissions
Limit: The PM emissions from the pig iron caster shall not exceed 17.91 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM Emissions (tons)	PM Emissions (tons)	PM Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Pig Iron Caster
Parameter: PM₁₀ Emissions
Limit: The PM₁₀ emissions from the pig iron caster shall not exceed 13.03 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM ₁₀ Emissions (tons)	PM ₁₀ Emissions (tons)	PM ₁₀ Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Pig Iron Caster
Parameter: PM_{2.5} Emissions
Limit: The PM_{2.5} emissions from the pig iron caster shall not exceed 9.73 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	PM _{2.5} Emissions (tons)	PM _{2.5} Emissions (tons)	PM _{2.5} Emissions (tons)
	This Month	Previous 11 Months	12 Month Total

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

DRAFT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121

Months: _____ to _____ Year: __

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section C - Malfunctions Report satisfies the reporting requirements of paragraph (a) of Section C- General Reporting. Any deviation from the requirements of this permit, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<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:	

DRAFT

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: _____

Phone: _____

**Indiana Department of Environmental Management
Office of Air Quality**

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

Source Description and Location

Source Name: U.S. Steel Corporation - Gary Works
Source Location: One North Broadway, Gary, Indiana 46402
County: Lake (Calumet)
SIC Code: 3312 (Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills)
Operation Permit No.: T089-46943-00121
Operation Permit Issuance Date: May 7, 2025
Significant Permit Modification No.: 089-48719-00121
Permit Reviewer: Aasim Noveer

Source Definition

U.S. Steel - Gary Works is an integrated steel mill that includes the primary operation, U.S. Steel - Gary Works (Source ID 089-00121), at One North Broadway, Gary, Indiana, collocated with on-site contractors:

	Company Name	Source ID	Operation Description
1	U.S. Steel - Gary Works	089-00121	integrated steel mill
	On-Site Contractors		
2	TMS International, LLC	089-00132	slag processing/metal recovery
3	South Shore Slag, LLC	089-00133	slag crushing, screening and conveying
4	Central Teaming Company, Inc.	089-00172	material handling
5	TMS International, LLC	089-00174	scrap metal processing
6	Mid-Continent Coal & Coke	089-00173	coke screening operation
7	Fritz Enterprises, Inc.	089-00578	iron and slag processing operation

A Part 70 permit has been issued to U.S. Steel - Gary Works (Source ID 089-00121). Separate Administrative Part 70 permits will be issued to each of the on-site contractors, solely for administrative purposes. The companies may maintain separate reporting and compliance certification.

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 089-48719-00121 on May 7, 2025 There have been no subsequent approvals issued.

County Attainment Status

The source is located in Lake County.

Pursuant to amendments to Indiana Code IC 13-17-3-14, effective July 1, 2023, a federal regulation that classifies or amends a designation of attainment, nonattainment, or unclassifiable for any area in Indiana under the federal Clean Air Act is effective and enforceable in Indiana on the effective date of the federal regulation.

Pollutant	Designation
SO ₂	Unclassifiable or attainment effective April 9, 2018, for the 2010 primary 1-hour SO ₂ standard. Better than national secondary standards effective March 3, 1978.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Attainment effective May 20, 2022, for the 2008 8-hour ozone standard.
O ₃	Serious nonattainment effective January 16, 2025, for the 2015 8-hour ozone standard for Calumet, Hobart, North, Ross, and St. John townships. Unclassifiable or attainment effective August 3, 2018, for the remainder of the county.
PM _{2.5}	Unclassifiable or attainment effective January 28, 2019, for the 2012 annual PM _{2.5} standard.
PM _{2.5}	Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM _{2.5} standard.
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Unclassifiable or attainment effective January 29, 2012, for the 2010 NO ₂ standard.
Pb	Unclassifiable or attainment effective December 31, 2011, for the 2008 lead standard.

- (a) **Ozone Standards**
 U.S. EPA, in the Federal Register Notice 89 FR 101901 dated December 17, 2024, designated Lake County, Calumet Township, as serious nonattainment for the 2015 8-hour ozone standard effective January 16, 2025. Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to ozone. Therefore, VOC and NO_x emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3.
- (b) **PM_{2.5}**
 Lake County has been classified as attainment for PM_{2.5}. Therefore, direct PM_{2.5}, SO₂, and NO_x emissions were reviewed pursuant to the requirements of Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) **Other Criteria Pollutants**
 Lake County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this source is classified as a as a steel mill it is considered one (1) of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B). Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of Part 70 Permit applicability and source status under Section 112 of the Clean Air Act (CAA).

Greenhouse Gas (GHG) Emissions

On June 23, 2014, in the case of *Utility Air Regulatory Group v. EPA*, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting

decisions in light of the Supreme Court’s decision. U.S. EPA’s guidance states that U.S. EPA will no longer require PSD or Title V permits for sources “previously classified as ‘Major’ based solely on greenhouse gas emissions.”

The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

Source Status - Existing Source
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The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

	Source-Wide Emissions Prior to Modification (ton/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1,2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Total PTE of Entire Source Including Fugitives*	>100	>100	>100	>100	>100	>100	>100	>10	>25
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	100	100	100	100	100	100	100	--	--
Emission Offset Major Source Thresholds	---	NA	NA	NA	50	50	NA	--	--
¹ Under the Part 70 Permit program (40 CFR 70), PM ₁₀ and PM _{2.5} , not particulate matter (PM), are each considered as a "regulated air pollutant." ² PM _{2.5} listed is direct PM _{2.5} . ³ Single highest source-wide HAP *Fugitive HAP emissions are always included in the source-wide emissions.									

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a PSD regulated pollutant(s), PM, PM10, PM2.5, SO2, NOx, VOC, and CO, is emitted at a rate of 100 tons per year or more, and it is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is a major stationary source, under Emission Offset (326 IAC 2-3), because the emissions of the nonattainment regulated pollutant(s), NOx and VOC, are equal to or greater than the Emission Offset major source threshold levels.
- (c) This existing source is a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions are equal to or greater than ten (10) tons per year for a single HAP and equal to or greater than twenty-five (25) tons per year for a combination of HAPs.
- (d) These emissions are based on the TSD of Part 70 Operating Permit Renewal No. 089-48719-00121, issued on May 7, 2025.

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by U.S. Steel Corporation – Gary Works on January 31, 2025, relating to the incorporation of site-specific emission factors that were developed through stack testing for the existing pig iron casting process. This will result in a more accurate and robust methodology for determining emissions from the purpose of demonstrating compliance with the PSD minor limits for PM, PM10, and PM2.5. U.S. Steel Corporation – Gary Works conducted the initial required stack testing in 2023 and continued to perform additional tests as part of a seasonal emission study throughout 2023 and 2024 for the purposes of developing robust site-specific emission factors for the pig iron casting process. Additionally, U.S. Steel Corporation – Gary Works has reviewed the potential to emit calculations for the pig iron casting process and determined that the fugitive emissions were overestimated. The pig iron casting machine uses cooling sprays along the caster to solidify the iron from liquid to a solid pig. When the solidified pig reaches the discharge end, the pig is sufficiently drenched in water thus eliminating any fugitive emissions from the discharge.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Project Aggregation

U.S. Steel Corporation – Gary Works submitted the following permit applications to IDEM in the two years previous to submission of the present application. When a major source for Prevention of Significant Deterioration (PSD) and/or Emission Offset (EO) submits an application for a modification, IDEM, OAQ reviews the permitting history of the source to determine if projects completed in the preceding two (2) years should be aggregated with the current project.

SPM 089-48719-00121 (pending), received by IDEM on January 31, 2025

- Requesting incorporation of site-specific emission factors that were developed through stack testing for the existing pig iron casting process.
- No physical modification to the pig iron casting process

Part 70 Operating Permit Renewal 089-46943-00121, issued on May 7, 2025

- Requested to renew the existing Part 70 Operating Permit (application received on August 16, 2023)
- Requested to remove emission units that were never constructed

Conclusion

IDEM has reviewed the aggregation analysis and has determined that the requested changes to the permit described in the Description of Proposed Modification section are independent of recent modifications at the source.

Permit Level Determination – Part 70 Modification to an Existing Source

There are no new emission units or modifications to existing emission units (i.e., no physical change or change in the method of operation occurring at the source) as a result of this modification. See the "Description of Proposed Modification " section above for more detail.

(a) Approval to Construct

There is no increase in the potential to emit of any regulated pollutants associated with this modification. Therefore, this modification is not subject to the source modification requirements under 326 IAC 2-7-10.5.

(b) Approval to Operate

Pursuant to 326 IAC 2-7-12(d)(1), this change to the permit is being made through a Significant Permit Modification because this modification does not qualify as a Minor Permit Modification or as an Administrative Amendment.

Permit Level Determination – PSD Emissions Increase

There is no physical change or change in the method of operation occurring at the source as a result of this modification. The source previously opted to take limits in order to render the requirements of 326 IAC 2-2 not applicable to the pig iron casting process. With this modification the PM, PM10, and PM2.5 emissions from the pig iron casting process will continue to be limited to less than the PSD significant levels.

See Technical Support Document (TSD) State Rule Applicability - Entire Source section, 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) applicability determination for more information regarding the limits.

PTE of the Entire Source After Issuance of the Part 70 Modification

The table below summarizes the after issuance source-wide potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of the Part 70 permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. If the control equipment has been determined to be integral, the table reflects the potential to emit (PTE) after consideration of the integral control device.

	Source-Wide Emissions After Issuance (ton/year)								
	PM ¹	PM ₁₀ ¹	PM _{2.5} ^{1,2}	SO ₂	NO _x	VOC	CO	Single HAP ³	Total HAPs
Total PTE of Entire Source Including Fugitives*	>100	>100	>100	>100	>100	>100	>100	>10	>25
Title V Major Source Thresholds	NA	100	100	100	100	100	100	10	25
PSD Major Source Thresholds	100	100	100	100	100	100	100	--	--
Emission Offset Major Source Thresholds	---	NA	NA	NA	50	50	NA	--	--

¹Under the Part 70 Permit program (40 CFR 70), PM₁₀ and PM_{2.5}, not particulate matter (PM), are each considered as a "regulated air pollutant."

²PM_{2.5} listed is direct PM_{2.5}.

³Single highest source-wide HAP

*Fugitive HAP emissions are always included in the source-wide emissions.

- (a) This existing major PSD stationary source will continue to be major under 326 IAC 2-2 because at least one pollutant, PM, PM10, PM2.5, SO2, NOx, VOC, and CO, has emissions equal to or greater than the PSD major source threshold.
- (b) This existing major Emission Offset stationary source will continue to be major under 326 IAC 2-3 because the emissions of the nonattainment pollutant(s), NOx and VOC, will continue to be equal to or greater than the Emission Offset major source threshold(s).
- (c) This existing major source of HAP will continue to be a major source of HAP, as defined in 40 CFR 63.2, because HAP emissions will continue to be equal to or greater than ten (10) tons per year for any single HAP and/or equal to or greater than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Federal Rule Applicability Determination

Due to the modification at this source, federal rule applicability has been reviewed as follows:

New Source Performance Standards (NSPS):

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit for this proposed modification.

National Emission Standards for Hazardous Air Pollutants (NESHAP):

- (a) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (40 CFR Part 63, 326 IAC 14, and 326 IAC 20) included in the permit for this proposed modification.

Compliance Assurance Monitoring (CAM):

- (a) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to each pollutant-specific emission unit that meets the following criteria:
 - (1) has a potential to emit before controls equal to or greater than the major source threshold for the regulated pollutant involved;
 - (2) is subject to an emission limitation or standard for that pollutant (or a surrogate thereof); and
 - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.
- (b) Pursuant to 40 CFR 64.2(b)(1)(i), emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act are exempt from the requirements of CAM. Therefore, an evaluation was not conducted for any emission limitations or standards proposed after November 15, 1990 pursuant to a NSPS or NESHAP under Section 111 or 112 of the Clean Air Act.

The following table is used to identify the applicability of CAM to new and modified emission unit and each emission limitation or standard for a specified pollutant based on the criteria specified under 40 CFR 64.2:

Emission Unit/Pollutant	Control Device	Applicable Emission Limitation	Uncontrolled PTE (tons/year)	Controlled PTE (tons/year)	CAM Applicable (Y/N)	Large Unit (Y/N)
Pig Iron Caster/PM	BH	326 IAC 2-2	<100	-	N ^{1,2}	-
Pig Iron Caster/PM*	BH	326 IAC 6.8-1-2	<100	-	N	-
Pig Iron Caster/PM10	BH	326 IAC 2-2	<100	-	N ^{1,2}	-
Pig Iron Caster/PM2.5	BH	326 IAC 2-2	<100	-	N ^{1,2}	-
Under the Part 70 Permit program (40 CFR 70), PM is not a regulated air pollutant.						
Uncontrolled PTE (tpy) and controlled PTE (tpy) are evaluated against the Major Source Threshold for each pollutant. Major Source Threshold for regulated air pollutants (PM10, PM2.5, SO2, NOx, VOC and CO) is 100 tpy, for a single HAP ten (10) tpy, and for total HAPs twenty-five (25) tpy.						
PM*	For limitations under 326 IAC 6-3-2, 326 IAC 6.5, and 326 IAC 6.8, IDEM OAQ uses PM as a surrogate for the regulated air pollutant PM10. Therefore, uncontrolled PTE and controlled PTE reflect the emissions of the regulated air pollutant PM10.					
N ¹	CAM does not apply for because the uncontrolled PTE is less than the major source threshold.					
N ²	Under 326 IAC 2-2, PM is not a surrogate for a regulated air pollutant. Therefore, CAM does not apply to these emission units for the 326 IAC 2-2 PM limitation.					
Controls: BH = Baghouse,						
Emission units without air pollution controls are not subject to CAM. Therefore, they are not listed.						

Based on this evaluation, the requirements of 40 CFR Part 64, CAM, are not applicable to the pig iron caster. This is a change in applicability based on the updated uncontrolled potential to emit.

State Rule Applicability - Entire Source

Due to this modification, state rule applicability has been reviewed as follows:

326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset)

PSD and Emission Offset applicability is discussed under the Permit Level Determination – PSD and Emission Offset section and the Permit Level Determination - PSD Emissions Increase and the Permit Level Determination - Emission Offset Emissions Increase section of this document.

326 IAC 2-2-8 (Prevention of Significant Deterioration (PSD) Requirements: Source Obligation)

This source will be required to keep records and report in accordance with 326 IAC 2-2-8 (Prevention of Significant Deterioration (PSD) Requirements: Source Obligation) to document that the project is not a part of a PSD major modification as defined by 326 IAC 2-2-1(dd).

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is located in Lake County and its emissions of VOC and NOx are greater than 25 tons per year. Therefore, pursuant to 326 IAC 2-6-3(a)(1), annual reporting is required. An emission statement shall be submitted in accordance with the compliance schedule in 326 IAC 2-6-3 and every year thereafter. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 2-7-6(5) (Annual Compliance Certification)

The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certifications that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

326 IAC 5-1 (Opacity Limitations)

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(2).

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source 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.

326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)

Pursuant to 326 IAC 6-5-1(a), the requirements of 326 IAC 6-5 are not applicable to the source because it is subject to a more stringent limitation under 326 IAC 6.8-10.

326 IAC 6.5 PM Limitations Except Lake County

This source is not subject to 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo, or Wayne.

326 IAC 6.8 PM Limitations for Lake County

This source (located in Lake County) is one of the sources specifically listed in 326 IAC 6.8-2-38. Therefore, the facilities specifically identified in 326 IAC 6.8-2-38 are subject to the requirements of 326 IAC 6.8-2-38. All other facilities not specifically identified in 326 IAC 6.8-2-38 have a combined PTE of PM of 10 tons per year or more; therefore, the actual emissions of PM from these facilities can exceed 10 tons per year. Therefore, all other facilities not specifically identified in 326 IAC 6.8-2-38 are subject to the requirements of 326 IAC 6.8-1-2 because these facilities can have a combined actual emissions of PM of 10 tons per year or more.

326 IAC 6.8-8 (Lake County: Continuous Compliance Plan)

This source (located in Lake County) is a source specifically listed in 326 IAC 6.8-8-1(1)(17). Therefore, this source is subject to the requirements of 326 IAC 6.8-8.

- (a) Pursuant to 326 IAC 6.8-8, the source shall implement the maintenance and inspection practices outlined in the Continuous Compliance Plan (CCP), submitted in 1993.

326 IAC 6.8-10 (Lake County: Fugitive Particulate Matter)

This source (located in Lake County) is a source specifically listed in 326 IAC 6.8-10-1(2)(U). Therefore, this source is subject to the requirements of 326 IAC 6.8-10.

- (a) Pursuant to 326 IAC 6.8-10-3, the particulate matter emissions from source wide activities shall meet the following requirements:
- (1) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
 - (2) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
 - (3) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
 - (4) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
 - (5) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
 - (6) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
 - (7) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).

- (8) Material processing facilities shall include the following:
- (A) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
 - (B) The PM10 emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (C) The PM10 stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (D) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
 - (E) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (9) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (10) Material transfer limits shall be as follows:
- (A) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
 - (B) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
 - (C) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:
 - (i) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
 - (ii) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).
- (11) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, which is included as Attachment A to the permit.

326 IAC 12 (New Source Performance Standards)

See Federal Rule Applicability Section of this TSD.

326 IAC 20 (Hazardous Air Pollutants)

See Federal Rule Applicability Section of this TSD.

State Rule Applicability – Individual Facilities

Due to this modification, state rule applicability has been reviewed as follows:

Pig Iron Caster- Section D.30

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2021 construction permitted under NSC Administrative TV No. T089-44653-00668, the Permittee shall comply with the following:

- (a) The PM emissions from the pig iron caster shall not exceed 17.91 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The PM₁₀ emissions from the pig iron caster shall not exceed 13.03 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The PM_{2.5} emissions from the pig iron caster shall not exceed 9.73 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, in conjunction with the potential fugitive emissions from vehicular traffic and implementation of the Fugitive Dust Control Plan, shall limit the PM emissions to less than 25 tons per year, the PM₁₀ emissions to less than 15 tons per year, and the PM_{2.5} emissions to less than 10 tons per year and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2021 construction.

The existing PSD minor limits have been readjusted due to this permitting action.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(c)(3), the pig iron casting and associated fugitive emissions are not subject to the requirements of 326 IAC 6-3 since these emission units are subject to a more stringent particulate matter limitation under 326 IAC 6.8 (PM Limitations for Lake County).

326 IAC 6.8 (Particulate Matter Limitations for Lake County)

Pursuant to 326 IAC 6.8-1-2(a), particulate matter emissions from the pig iron casting operation shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

326 IAC 6.8 (Particulate Matter Limitations for Lake County)

Pursuant to 326 IAC 6.8-1-2(a), particulate matter emissions from the mold dryer burner shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to assure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs, IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in

relation to a compliance monitoring condition will arise through a source’s failure to take the appropriate corrective actions within a specific time period.

(a) The Compliance Determination Requirements applicable to this modification are as follows:

- (1) Compliance with the PM, PM10, and PM2.5 PSD minor emission limits shall be determined by calculating the PM, PM10, and PM2.5 emissions from the pig iron caster using the following equations:

$$PM \text{ (ton/month)} = PT \text{ (ton/month)} * (EF \text{ lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM = total PM emissions from the pig iron caster

PT = Pig iron production in tons per month

EF,PM = filterable PM emission rate from most recent stack test

$$PM-10 \text{ (ton/month)} = PT \text{ (ton/month)} * (EF \text{ lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM-10 = total PM10 emissions from the pig iron caster

PT = Pig iron production in tons per month

EF,PM-10 = filterable and condensable PM-10 emission rate from most recent stack test

$$PM-2.5 \text{ (ton/month)} = PT \text{ (ton/month)} * (EF \text{ lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM-2.5 = total PM2.5 emissions from the pig iron caster

PT = Pig iron production in tons per month

EF,PM-2.5 = filterable and condensable PM-2.5 emission rate from most recent stack test

Testing Requirements:

Summary of Testing Requirements					
Emission Unit	Control Device	Timeframe for Testing or Date of Initial Valid Demonstration)	Pollutant/Parameter	Frequency of Testing	Authority
Pig Iron Caster	Baghouse	See note*	PM, PM10, and PM2.5	Every 5 years	326 IAC 2-2 326 IAC 6.8-1-2

*The source conducted testing on July 25, 2023, October 27, 2023, January 30 and 31, 2024, and April 9, 2024. The testing protocols and results were reviewed by the IDEM, OAQ, Compliance Data Section (CDS).

- (b) There are no new or modified compliance monitoring requirements included with this modification.

Proposed Changes

As part of this permit approval, the permit may contain new or different permit conditions and some conditions from previously issued permits/approvals may have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes.

The following changes listed below are due to the proposed modification. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text (these changes may include Title I changes):

(1) Sections A.4 and D.30 have been revised to remove the descriptions for the pig ingot drop discharge bunker and loader dump discharge bunker, since there are no regulated air emissions from these processes.

(2) Section D.30 has been revised to incorporate the changes requested by the source.

...
A.4 Specifically Regulated Insignificant Activities
[326 IAC 2-7-1(19)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(19):

...
(ss) The following fugitive emission sources:

(1) One (1) shot bunker, constructed in 2022, with a maximum capacity of 1.0 ton per hour, using no control, and exhausting outdoors.

~~(2) One (1) pig ingot drop discharge bunker, constructed in 2022, with a maximum capacity of 200 tons of pig iron ingots per hour, using wet suppression as control, and exhausting outdoors.~~

~~(3) One (1) loader dump discharge bunker, constructed in 2022, with a maximum capacity of 200 tons of pig iron ingots per hour, using wet suppression as control, and exhausting outdoors.~~

(42) Unpaved roads

...
SECTION D.30 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

...
(ss) The following fugitive emission sources:

(1) One (1) shot bunker, constructed in 2022, with a maximum capacity of 1.0 ton per hour, using no control, and exhausting outdoors.

~~(2) One (1) pig ingot drop discharge bunker, constructed in 2022, with a maximum capacity of 200 tons of pig iron ingots per hour, using wet suppression as control, and exhausting outdoors.~~

~~(3) One (1) loader dump discharge bunker, constructed in 2022, with a maximum capacity of 200 tons of pig iron ingots per hour, using wet suppression as control, and exhausting outdoors.~~

(42) Unpaved roads

...

SECTION D.30 EMISSIONS UNIT OPERATION CONDITIONS

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

D.30.1 Prevention of Significant Deterioration (PSD) [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the Permittee shall comply with the following:

- (a) The PM emissions from the pig iron caster shall not exceed ~~12.00~~ **17.91** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (b) The PM₁₀ emissions from the pig iron caster shall not exceed ~~40.00~~ **13.03** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (c) The PM_{2.5} emissions from the pig iron caster shall not exceed ~~6.00~~ **9.73** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- ~~(d) The PM, PM₁₀, and PM_{2.5} fugitive emissions from the loader dump discharge and pig ingot casting discharge shall be controlled by wet suppression with a control efficiency of no less than 50%.~~

Compliance with these limits, in conjunction with the potential fugitive emissions from vehicular traffic and implementation of the Fugitive Dust Control Plan, shall limit the PM emissions to less than 25 tons per year, the PM₁₀ emissions to less than 15 tons per year, and the PM_{2.5} emissions to less than 10 tons per year and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2021 construction.

...
 Compliance Determination Requirements [326 IAC 2-7-5(1)]

...
 D.30.5 PM, PM₁₀, and PM_{2.5} Emissions Determination

Compliance with Conditions D.30.1(a), D.30.1(b), and D.30.1(c) shall be determined by calculating the PM, PM₁₀, and PM_{2.5} emissions from the pig iron caster using the following equations:

$$PM/PM_{10}/PM_{2.5} \frac{ton}{month} = (TP \frac{ton}{month}) * EF \frac{lb}{ton} * (1 - (CAE * COE)) / 2000 \frac{lb}{ton}$$

Where:

PM/PM₁₀/PM_{2.5} = The total PM/PM₁₀/PM_{2.5} emissions from the pig iron caster

TP = Total pig iron throughput

EF = Emission factor

CAE = Capture efficiency of the baghouse (%)

COE = Control efficiency of the baghouse (%)

$$PM \text{ (ton/month)} = PT \text{ (ton/month)} * (EF \text{ lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM = total PM emissions from the pig iron caster

PT = Pig iron production in tons per month

EF,PM = filterable PM emission rate from most recent stack test

$$\text{PM-10 (ton/month)} = \text{PT (ton/month)} * (\text{EF lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM-10 = total PM10 emissions from the pig iron caster
PT = Pig iron production in tons per month
EF,PM-10 = filterable and condensable PM-10 emission rate from most recent stack test

$$\text{PM-2.5 (ton/month)} = \text{PT (ton/month)} * (\text{EF lb/ton}) / (2,000 \text{ lb/ton})$$

Where:

PM-2.5 = total PM2.5 emissions from the pig iron caster
PT = Pig iron production in tons per month
EF,PM-2.5 = filterable and condensable PM-2.5 emission rate from most recent stack test

D.30.6 Testing Requirements [326 IAC 2-1.1-11]

~~Not later than 180 days after the startup of pig iron caster,~~ **In order to demonstrate compliance with Conditions D.30.1 and D.30.2,** the Permittee shall perform PM, PM₁₀, and PM_{2.5} testing of the pig iron caster after controls utilizing methods approved by the commissioner at least once every 5 years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition. PM₁₀ and PM_{2.5} includes filterable and condensable PM **for demonstrating compliance with Condition D.30.1(b) and (c).** **PM₁₀ includes only filterable PM for demonstrating compliance with Condition D.30.2.**

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

D.30.7 Visible Emissions Notations [~~40 CFR 64~~]

...

D.30.8 Parametric Monitoring [~~40 CFR 64~~]

...

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

D.30.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.30.1, the Permittee shall maintain ~~daily~~ **monthly** records of the pig iron throughput to the pig iron caster.

...

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Pig Iron Caster
Parameter: PM Emissions
Limit: The PM emissions from the pig iron caster shall not exceed ~~12.00~~ **17.91** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

...

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Pig Iron Caster
Parameter: PM₁₀ Emissions
Limit: The PM₁₀ emissions from the pig iron caster shall not exceed ~~10.00~~ **13.03** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

...

Part 70 Quarterly Report

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121
Facility: Pig Iron Caster
Parameter: PM_{2.5} Emissions
Limit: The PM_{2.5} emissions from the pig iron caster shall not exceed ~~6.00~~ **9.73** tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

...

Proposed Changes Due to Emergency Affirmative Defense Removal

In the Federal Register Notice 88 FR 47029 dated July 21, 2023, U.S. EPA finalized the removal of the "emergency" affirmative defense provisions from Clean Air Act operating permit program regulations effective August 21, 2023. A rulemaking to amend the Indiana rules at 326 IAC 2-7 (Part 70 Permit Program), 326 IAC 2-8 (Federally Enforceable State Operating Permit Program), and 326 IAC 1-6-1 (Malfunctions) was effective June 21, 2025, making them consistent with federal regulations. IDEM OAQ has determined that changes to the permit are required to be consistent with state and federal law. The permit is revised as shown below with deleted language as ~~strikeouts~~ and new language **bolded**.

- (a) The permit is amended to remove Section B - Emergency Provisions and replace the section title with the word "Reserved", to remove the Emergency Occurrence Report form, and to remove any references to the requirements of Section B - Emergency Provisions from permit conditions.
- (b) The permit is amended to include a new Section C - Malfunctions Report (and a new associated Malfunctions Report form) that incorporates the record keeping and reporting requirements of 326 IAC 1-6-2 (Records; Notice of Malfunction). All subsequent Section C conditions are renumbered accordingly. Permit Section C - General Reporting Requirements and the Quarterly Deviation And Compliance Monitoring Report form is amended to reference Section C - Malfunctions Report.
- (c) Permit citations to definitions within 326 IAC 2-7-1 are amended throughout the permit as necessary, since the definitions under 326 IAC 2-7-1(12) and 326 IAC 2-7-1(20) have been deleted from the rule. Any occurrence of the following 326 IAC 2-7-1 definition citations are amended as shown below, with deleted language as ~~strikeouts~~ and new language **bolded**:

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

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(2220)]

A.2 Part 70 Source Definition [326 IAC 2-7-1(2220)]

A.4 Specifically Regulated Insignificant Activities
[326 IAC 2-7-1(2119)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(2419):

(mm) A laboratory as defined in 326 IAC 2-7-1(2419)(G).

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

(a) It is a major source, as defined in 326 IAC 2-7-1(2220);

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

(1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(3533), and

(c) A "responsible official" is defined at 326 IAC 2-7-1(3533).

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

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(3533).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(12)][326 IAC 1-6-3]

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(3533).

(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. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(3533).

B.11 Reserved

Emergency Provisions [326 IAC 2-7-16]

~~(a) — An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.~~

~~(b) — An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:~~

~~(1) — An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;~~

~~(2) — The permitted facility was at the time being properly operated;~~

~~(3) — During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;~~

~~(4) — For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ or Northwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;~~

~~Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or~~

~~Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)~~

~~Facsimile Number: 317-233-6865~~

~~Northwest Regional Office phone: (219) 464-0233; fax: (219) 464-0553.~~

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

~~Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2254~~

~~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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).~~

- ~~(6) — The Permittee immediately took all reasonable steps to correct the emergency.~~
- ~~(c) — In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.~~
- ~~(d) — This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.~~
- ~~(e) — The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(8) 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.~~

B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

-
- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit.
[326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(3533).

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

-
- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and 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(2419) and 326 IAC 2-7-1(4239). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(3533).

B.17 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(3533).

B.19 Operational Flexibility [326 IAC 2-7-20][326 IAC 2-7-10.5]

-
- (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(3735)) 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:

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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

- (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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

C.11 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5][326 IAC 2-7-6]

The response action documents submitted pursuant to this condition do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

C.18 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) **A record of all malfunctions, startups or shutdowns of any emission unit or emission control equipment, that results in violations of applicable air pollution control regulations or applicable emission limitations must be kept and retained for a period of three (3) years and be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.**
- (b) **When a malfunction of any emission unit or emission control equipment occurs that lasts more than one (1) hour, the condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification must be made by telephone or other electronic means, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of the occurrence.**
- (c) **Failure to report a malfunction of any emission unit or emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information on the scope and expected duration of the malfunction must be provided, including the items specified in 326 IAC 1-6-2(c)(3)(A) through (E).**
- (d) **Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]**

C.1819 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]

- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(~~3331~~) (“Regulated pollutant, which is used only for purposes of Section 19 of this rule”) from the source, for purpose of fee assessment.

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

C.1920 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2][326 IAC 2-3]

C.2021 Sulfur Record keeping Requirements (Entire Source) [326 IAC 7-4.1-20(b)(1)]

C.2422 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2][326 IAC 2-3] [40 CFR 64][326 IAC 3-8]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under ~~Section B – Emergency Provisions~~ **Section C - Malfunctions Report** satisfies the reporting requirements of this paragraph. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by

326 IAC 2-7-1(~~3533~~). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

C.2223 Sulfur Dioxide (SO₂) Reporting Requirements (Entire Source) [326 IAC 7-4.1-20(b)(2)]

C.2324 Compliance with 40 CFR 82 and 326 IAC 22-1

D.6.14 Reporting Requirements

- (d) The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

D.7.17 Reporting Requirements

A quarterly summary report to document the compliance status with condition D.7.1 and D.7.7 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

D.10.6 Reporting Requirements

A quarterly summary report to document the compliance status with condition D.10.2 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C – Sulfur Dioxide SO₂ Reporting Requirements (Entire Source) contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

D.12.5 Reporting Requirements

- (c) The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

D.14.7 Reporting Requirements

A quarterly summary report to document the compliance status with conditions D.14.2 shall be submitted in accordance with Section C – Sulfur Dioxide Reporting Requirements (Entire Source)

of this permit. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. This report does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

D.15.9 Reporting Requirements

(e) These reports do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

D.16.4 Reporting Requirements

(mm) A laboratory as defined in 326 IAC 2-7-1(~~2419~~)(G).

D.18.9 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.18.1(a), D.18.1(b), and D.18.1(c) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(~~3533~~).

D.22.11 Reporting Requirements

The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(~~3533~~).

D.28.3 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.28.1(a) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(~~3533~~).

D.29.11 Reporting Requirements

A quarterly summary of the information to document the compliance status with Conditions D.29.1 and D.29.2 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a

certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official,” as defined by 326 IAC 2-7-1(~~3533~~).

D.30.10 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.30.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee’s obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official,” as defined by 326 IAC 2-7-1(~~3533~~).

D.32.4 Reporting Requirements

A quarterly report of the pilot test air sparging system hours of operation shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee’s obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official,” as defined by 326 IAC 2-7-1(~~3533~~).

D.34.7 Reporting Requirement

- (3) The reports submitted by the Permittee do require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1(~~3533~~).

D.35.4 Reporting Requirements

- (c) This report does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(~~3533~~).

~~INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
Indiana Government Center North
400 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865~~

~~PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT~~

Source Name: ~~U.S. Steel Corporation Gary Works~~
Source Address: ~~One North Broadway, Gary, Indiana 46402~~
Part 70 Permit No.: ~~T089-46943-00121~~

This form consists of 2 pages

Page 1 of 2

<p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865) and follow the other requirements of 326 IAC 2-7-16.
--

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

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:

<p>Describe the corrective actions/response steps taken:</p>
<p>Describe the measures taken to minimize emissions:</p>
<p>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:</p>

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

MALFUNCTION REPORT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865
EMAIL: AirCompl@idem.in.gov

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Permit No.: T089-46943-00121

For any malfunction lasting one (1) hour or longer, the Permittee must submit this form to the Office of Air Quality (OAQ), within four (4) daytime business hours of malfunction start.

If any of the following are not applicable, mark N/A. This form consists of two (2) pages.

Page 1 of 2

<p>This malfunction resulted in a violation of the following Indiana Administrative Code, permit condition, and/or permit limit and meets the definition of "malfunction" as listed on reverse side (e.g., 326 IAC 5-1, Permit Condition D.1.1, 40 CFR 60.62, etc.):</p>
--

Describe affected facility/equipment/operation (e.g., Coating Line #2, Boiler D, Diesel engine, No. 3 smelter, etc.):	
Control equipment (e.g., Baghouse B4, Thermal oxidizer for Paint Line #1, etc.):	
Description of the malfunction and cause:	
When the malfunction started:	Date (MM/DD/YYYY):
	Time (HH:MM):
When the malfunction was corrected or is expected to be corrected:	Date (MM/DD/YYYY):
	Time (HH:MM):

Type of pollutant(s) emitted (e.g., PM, PM10, PM2.5, VOC, etc.):
Estimated amount of pollutant(s) emitted during malfunction (e.g., VOC at 35 lbs/hr, 5 tons of PM, etc.):
Describe the corrective actions and interim control measures taken to minimize emissions (e.g., shut coating line down, isolated failing baghouse compartment, idled furnace operations until repairs completed, etc.):

Form completed by: _____

Title/position: _____

Signature: _____

Date: _____

Phone: _____

Email: _____

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1, 326 IAC 2-6.1, 326 IAC 2-7, or 326 IAC 2-8.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: U.S. Steel Corporation - Gary Works
Source Address: One North Broadway, Gary, Indiana 46402
Part 70 Permit No.: T089-46943-00121

Months: _____ to _____ Year: __

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under ~~Section B—Emergency Provisions~~ **Section C - Malfunctions Report** satisfies the reporting requirements of paragraph (a) of Section C-General Reporting. Any deviation from the requirements of this permit, 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".

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on January 31, 2025.

The operation of this proposed modification shall be subject to the conditions of the attached proposed Significant Permit Modification No. 089-48719-00121.

The staff recommends to the Commissioner that the Part 70 Significant Permit Modification be approved.

IDEM Contact

- (a) If you have any questions regarding this permit, please contact Aasim Noveer, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, Indiana Government Center North, 100 North Senate Avenue, Room 13W, Indianapolis, Indiana 46204-2251, or by telephone at (317) 234-1243 or (800) 451-6027, and ask for Aasim Noveer or (317) 234-1243.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM Air Permits page on the Internet at: <https://www.in.gov/idem/airpermit/public-participation/>; and the Citizens' Guide to IDEM on the Internet at: <https://www.in.gov/idem/resources/citizens-guide-to-idem/>.

**Appendix A: Emissions Calculations
Emissions Summary**

**Company Name: United States Steel Corporation - Gary Works
Source Address: 1 North Broadway, Gary, IN 46401
Significant Permit Modification No.: 089-48719-00121
Reviewer: Aasim Noveer**

Unlimited/Uncontrolled Potential to Emit (tons/year)									
Emission Unit	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	VOC	CO	Combined HAPs	Single HAP (Hexane)
Pig Iron Casting	36.97	69.07	53.31	-	-	-	-	-	-
NG Combustion	0.02	0.08	0.08	0.01	0.99	0.05	0.83	0.02	0.02
Unpaved Roads	14.13	3.77	0.38	-	-	-	-	-	-
Total PTE:	51.11	72.91	53.76	0.01	0.99	0.05	0.83	0.02	0.02
US Steel Gary Works PTE:	>100	>100	>100	>100	>100	>100	>100	>25	>10

Limited Potential to Emit (tons/year)									
Emission Unit	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	VOC	CO	Combined HAPs	Single HAP (Hexane)
Pig Iron Casting	17.91	13.03	9.73	-	-	-	-	-	-
NG Combustion	0.02	0.08	0.08	0.01	0.99	0.05	0.83	0.02	0.02
Unpaved Roads	7.06	1.88	0.19	-	-	-	-	-	-
Total PTE After Issuance:	24.99	14.99	9.99	0.01	0.99	0.05	0.83	0.02	0.02
US Steel Gary Works PTE:	>100	>100	>100	>100	>100	>100	>100	>25	>10

**Appendix A: Emissions Calculations
Pig Iron Casting**

Company Name: United States Steel Corporation - Gary Works
Source Address: 1 North Broadway, Gary, IN 46401
Significant Permit Modification No.: 089-48719-00121
Reviewer: Aasim Noveer

Maximum Pig Iron Throughput (ton/year): 1,752,000

Pollutant	Maximum Throughput (ton/hour)	Inlet Emission Factor (lbs/ton) ¹	Overall Capture Efficiency ²	Uncontrolled Emission Factor (lbs/ton) ³	Uncontrolled PTE (ton/year) ⁴	Fugitive Emission Factor (lbs/ton) ⁵	Outlet Emission Factor (lbs/ton) ⁶	Controlled Emission Factor (lb/ton) ⁷
PM Filterable	200	0.0416	98.5%	0.0422	36.97	0.0006	0.0163	0.0169
PM10 Filterable	200	0.0359	98.5%	0.0365	31.95	0.0005	0.0127	0.0132
PM2.5 Filterable	200	0.0182	98.5%	0.0185	16.19	0.0003	0.0057	0.0060
PM Condensable	200	0.0417	98.5%	0.0424	37.12	0.0006	0.0226	0.0232

Pollutant	EF, Controlled Filterable (lb/ton)	EF, Controlled Condensable (lb/ton)	EF, Total ⁸ (lb/ton)	Uncontrolled PTE (ton/year)	Controlled PTE (ton/year)	Limited Emissions ⁹ (ton/year)
PM	0.0169	N/A	0.0169	36.97	14.84	17.91
PM-10	0.0132	0.0232	0.0365	69.07	31.93	13.03
PM-2.5	0.0060	0.0232	0.0292	53.31	25.60	9.73

Methodology

Emission factors based on tested emission rates during a seasonal impact study performed in 2023 and 2024. See tab "Seasonal Study Results".

- Inlet Emission Rate (lbs/ton) = Average tested emission rate before controls.
- Overall Capture Efficiency = $(1 - (1 - \text{Baghouse Capture Efficiency}) * (1 - \text{Building Capture Efficiency})) * 100\%$.
 Baghouse Capture Efficiency = 95%.
 Building Capture Efficiency = 70% based on 1980 OEPA RACM for Fugitive Dust Sources for Partially Enclosed Buildings.
- Uncontrolled Emission Factor (lbs/ton) = Inlet Emission Rate (lbs/ton) / Overall Capture Efficiency.
- Uncontrolled PTE (ton/year) = Maximum Throughput (ton/hour) * Uncontrolled Emission Factor (lbs/ton) * 8760 / 2000.
- Fugitive Emission Factor (lbs/ton) = Uncontrolled Emission Factor (lbs/ton) - Inlet Emission Rate (lbs/ton).
- Outlet Emission Factor (lbs/ton), Filterable = most recent stack test results; Condensable = averaged stack test results.
- Controlled Emission Factor (lbs/ton) = Fugitive Emission Factor (lbs/ton) + Outlet Emission Factor (lbs/ton).
- EF, Total = EF, Controlled Filterable + EF, Controlled Condensable
- Requested emission limits to render PSD nonapplicable

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 CPM = Condensable Particulate Matter
 FPM = Filterable Particulate Matter
 PTE = Potential to Emit

**Appendix A: Emissions Calculations
Emission Study Results**

Company Name: United States Steel Corporation - Gary Works
Source Address: 1 North Broadway, Gary, IN 46401
Significant Permit Modification No.: 089-48719-00121
Reviewer: Aasim Noveer

Baghouse Inlet Results (Before Controls)											
Run Data			Inlet Emission Rates ¹				Inlet Emission Factors, Normalized By Production ²				
Production (tons / hr)	Flue Temp (Inlet)	Date	PM Filterable (lb/hr)	PM-10 Filterable (lb/hr)	PM-2.5 Filterable (lb/hr)	PM Condensable (lb/hr)	PM Filterable (lb/ton)	PM-10 Filterable (lb/ton)	PM-2.5 Filterable (lb/ton)	PM Condensable (lb/ton)	
140.3	104	7/25/2023	4.02	3.84	2.14	3.44	0.0287	0.0274	0.0153	0.0245	
92.2	112	7/25/2023	3.87	3.67	1.66	3.03	0.0420	0.0398	0.0180	0.0329	
119.7	118	7/25/2023	4.10	3.91	1.53	5.56	0.0342	0.0327	0.0128	0.0464	
110.3	104	9/8/2023	3.70	3.46	1.61	4.05	0.0336	0.0314	0.0146	0.0367	
108.4	94	9/8/2023	6.17	5.83	2.73	5.33	0.0569	0.0538	0.0252	0.0492	
98.9	96	9/8/2023	4.83	4.56	2.32	3.55	0.0488	0.0461	0.0234	0.0359	
99.3	69	1/30/2024 ⁵	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	
103.6	62	1/30/2024 ⁵	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	
104.7	74	1/31/2024 ⁵	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	
119.4	83	4/9/2024	5.90	4.31	2.72	6.57	0.0494	0.0361	0.0228	0.0550	
102.3	81	4/9/2024	4.25	2.69	1.56	6.21	0.0416	0.0263	0.0153	0.0607	
118.0	84	4/9/2024	4.60	3.52	1.95	4.05	0.0390	0.0298	0.0165	0.0343	
Average:	109.8	90.2	N/A	4.60	3.98	2.02	4.64	0.0416	0.0359	0.0182	0.0417

Baghouse Outlet (Stack) Results (After Controls)											
Run Data			Outlet Emission Rates ³				Outlet Emission Factors, Normalized By Production ⁴				
Production (tons / hr)	Flue Temp (Outlet)	Date	PM Filterable (lb/hr)	PM-10 Filterable (lb/hr)	PM-2.5 Filterable (lb/hr)	PM Condensable (lb/hr)	PM Filterable (lb/ton)	PM-10 Filterable (lb/ton)	PM-2.5 Filterable (lb/ton)	PM Condensable (lb/ton)	
140.3	112	7/25/2023	0.98	0.83	0.76	2.95	0.0070	0.0059	0.0054	0.0210	
92.2	120	7/25/2023	0.83	0.66	0.53	2.07	0.0090	0.0072	0.0057	0.0224	
119.7	126	7/25/2023	1.30	1.13	1.03	3.27	0.0109	0.0094	0.0086	0.0273	
110.3	106	9/8/2023	1.11	0.87	0.73	2.95	0.0101	0.0079	0.0066	0.0268	
108.4	97	9/8/2023	0.83	0.66	0.52	2.29	0.0077	0.0061	0.0048	0.0211	
98.9	97	9/8/2023	1.02	0.78	0.67	2.42	0.0103	0.0079	0.0068	0.0245	
99.3	69	1/30/2024 ⁵	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	
103.6	62	1/30/2024 ⁵	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	
104.7	74	1/31/2024 ⁵	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	Invalid	
119.4	89	4/9/2024	2.26	1.76	1.04	2.34	0.0189	0.0147	0.0087	0.0196	
102.3	91	4/9/2024	1.62	1.29	0.37	2.16	0.0158	0.0126	0.0036	0.0211	
118.0	91	4/9/2024	1.67	1.26	0.57	2.30	0.0142	0.0107	0.0048	0.0195	
Average:	109.8	94.6	N/A	1.29	1.03	0.69	2.53	0.0115	0.0092	0.0061	0.0226

Methodology

- Inlet Emission Rates are Methods 201A and 202 results from the inlet to the baghouse
- Inlet Emission Factors, Normalized By Production (lb/ton) = Inlet Emission Rates (lb/hr) / Production (tons/hr).
- Outlet Emission Rates are Methods 201A and 202 results from the baghouse stack
- Outlet Emission Factors, Normalized By Production (lb/ton) = Outlet Emission Rates (lb/hr) / Production (tons/hr).
- January 2024 test results invalidated due to stack tester error; incorrect stack dimensions used for Methods 1 and 2

Appendix A: Emissions Calculations
Natural Gas Combustion (≤ 100 MMBtu/hr)

Company Name: United States Steel Corporation - Gary Works
Source Address: 1 North Broadway, Gary, IN 46401
Significant Permit Modification No.: 089-48719-00121
Reviewer: Aasim Noveer

Heat Input Capacity MMBtu/hr	HHV mmBtu mmscf	Potential Throughput MMCF/yr
2.30	1020	19.8

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
Potential Emission in tons/yr	0.02	0.08	0.08	0.01	**see below	0.05	0.83

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

PM2.5 emission factor is filterable and condensable PM2.5 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu; MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,020 MMBtu

Potential Emission (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutants (HAPs)

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	2.1E-05	1.2E-05	7.4E-04	1.8E-02	3.4E-05

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	4.9E-06	1.1E-05	1.4E-05	3.8E-06	2.1E-05

Potential Emission of Combined HAPs (tons/yr)		1.9E-02
Potential Emission of Highest Single HAP (tons/yr)		1.8E-02

Hexane

Methodology

Methodology is the same as above.

The five highest organic and metal HAPs emission factors are provided above.

Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Greenhouse Gases (GHGs)

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMcf	120,000	2.3	2.2
Potential Emission in tons/yr	1,185	0.02	0.02
Summed Potential Emissions in tons/yr	1,185		
CO2e Total in tons/yr	1,192		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.

Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.

Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.

Potential Emission (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (25) + N2O

Potential Emission ton/yr x N2O GWP (298).

Appendix A: Emission Calculations
Fugitive Dust Emissions - Unpaved Roads

Company Name: United States Steel Corporation - Gary Works
Source Address: 1 North Broadway, Gary, IN 46401
Significant Permit Modification No.: 089-48719-00121
Reviewer: Aasim Noveer

Unpaved Roads at Industrial Site

The following calculations determine the amount of emissions created by unpaved roads, based on 8,760 hours of use and AP-42, Ch 13.2.2 (11/2006).

Vehicle Information (provided by source)

Type	Maximum number of vehicles	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight of Loaded Vehicle (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Loader movements (empty)	1.0	228.3	228.3	33.2	7579.6	100	0.019	4.3	1583.3
Loader movements (full)	1.0	228.3	228.3	45.2	10319.2	100	0.019	4.3	1583.3
Trucks moving materials onsite (empty)	1.0	45.7	45.7	113.3	5177.8	100	0.019	0.9	316.9
Trucks moving materials onsite (full)	1.0	45.7	45.7	173.3	7919.8	100	0.019	0.9	316.9
Totals			548.0		30996.3			10.4	3800.4

Average Vehicle Weight Per Trip =

56.6

 tons/trip
 Average Miles Per Trip =

0.02

 miles/trip

Unmitigated Emission Factor, $E_f = k * [(s/12)^a] * [(W/3)^b]$ (Equation 1a from AP-42 13.2.2)

	PM	PM10	PM2.5	
where k =	4.9	1.5	0.15	lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
s =	6.0	6.0	6.0	% = mean % silt content of unpaved roads (AP-42 Table 13.2.2-1 Iron and Steel Production)
a =	0.7	0.9	0.9	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)
W =	56.6	56.6	56.6	tons = average vehicle weight
b =	0.45	0.45	0.45	= constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E * [(365 - P)/365]$ (Equation 2 from AP-42 13.2.2)

Mitigated Emission Factor, $E_{ext} = E * [(365 - P)/365]$
 where P =

125

 days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)

	PM	PM10	PM2.5	
Unmitigated Emission Factor, E_f =	11.31	3.01	0.30	lb/mile
Mitigated Emission Factor, E_{ext} =	7.44	1.98	0.20	lb/mile
Dust Control Efficiency =	50%	50%	50%	(pursuant to control measures outlined in fugitive dust control plan)

Process	Mitigated PTE of PM (Before Control) (tons/yr)	Mitigated PTE of PM10 (Before Control) (tons/yr)	Mitigated PTE of PM2.5 (Before Control) (tons/yr)	Mitigated PTE of PM (After Control) (tons/yr)	Mitigated PTE of PM10 (After Control) (tons/yr)	Mitigated PTE of PM2.5 (After Control) (tons/yr)
Loader movements (empty)	5.89	1.57	0.16	2.94	0.78	0.08
Loader movements (full)	5.89	1.57	0.16	2.94	0.78	0.08
Trucks moving materials onsite (empty)	1.18	0.31	0.03	0.59	0.16	0.02
Trucks moving materials onsite (full)	1.18	0.31	0.03	0.59	0.16	0.02
Totals	14.13	3.77	0.38	7.06	1.88	0.19

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight of Loaded Vehicle (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Mitigated PTE (Before Control) (tons/yr) = (Maximum one-way miles (miles/yr)) * (Mitigated Emission Factor (lb/mile)) * (ton/2000 lbs)
 Mitigated PTE (After Control) (tons/yr) = (Mitigated PTE (Before Control) (tons/yr)) * (1 - Dust Control Efficiency)

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particulate Matter (<2.5 um)
 PTE = Potential to Emit



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • Fax (317) 233-6647 • www.idem.IN.gov

Mike Braun
Governor

Clint Woods
Commissioner

July 17, 2025

Jacob Blahut
US Steel Corporation Gary Works
1 N Broadway MS 70A
Gary, IN 46402

Re: Public Notice
US Steel Corporation Gary Works
Permit Level: TV Significant Permit Modification
Permit Number: 089-48719-00121

Dear Jacob Blahut:

Enclosed is the Notice of 30-Day Period for Public Comment for your draft air permit.

Our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person. The Notice of 30-Day Period for Public Comment has also been sent to the OAQ Permits Branch Interested Parties List and, if applicable, your Consultant/Agent and/or Responsible Official/Authorized Individual.

The preliminary findings, including the draft permit, technical support document, emission calculations, and other supporting documents, **are available electronically at:**

IDEM's online searchable database: <https://www.in.gov/apps/idem/caats/> . Choose Search Option by **Permit Number**, then enter permit 48719

A copy of the application and preliminary findings is also available via IDEM's Virtual File Cabinet (VFC) located at <https://www.in.gov/idem/legal/public-records/virtual-file-cabinet/>. Once you have accessed VFC, you will then have the option to search for source related documents using a variety of criteria. To find documents related to this air permit, click on "Advanced Search," specify "OAQ" in the Program search field, specify the five-digit permit number 48719 in the Permit # search field, then click the Search button at the top or bottom of the webpage.

If you have requested to receive a hard copy of these documents, the preliminary findings are enclosed.

The Public Notice period will begin the date the Notice is published on the IDEM Official Public Notice website. Publication has been requested and is expected within 2-3 business days. You may check the exact Public Notice begins and ends date here: <https://www.in.gov/idem/public-notices/>

Please note that as of April 17, 2019, IDEM is no longer required to publish the notice in a newspaper.

OAQ has submitted the draft permit package to the Gary Public Library and Cultural Center, 220 W 5th Ave in Gary, IN 46402. As a reminder, you are obligated by 326 IAC 2-1.1-6(c) to place a copy of the complete permit application at this library no later than ten (10) days after submittal of the application or additional information to our department. We highly recommend that even if you have already placed these materials at the library, that you confirm with the library that these materials are available for review and request that the library keep the materials available for review during the entire permitting process.

Visit on.IN.gov/survey or scan the QR code to provide feedback.

We appreciate your input!



Please review the draft permit documents carefully. This is your opportunity to comment on the draft permit and notify the OAQ of any corrections that are needed before the final decision. Questions or comments about the enclosed documents should be directed to Noveer, Aasim, Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 N. Senate Avenue, Room 13W, Indianapolis, Indiana, 46204-2251 or call (800) 451-6027, and ask for extension 4-1243 or dial (317) 234-1243.

Sincerely,

Cheri Mosier

Cheri Mosier
Permits Branch
Office of Air Quality

Enclosures
PN Applicant Cover Letter



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • Fax (317) 233-6647 • www.idem.IN.gov

Mike Braun
Governor

Clint Woods
Commissioner

July 17, 2025

To: Gary Public Library and Cultural Center

From: Jenny Acker, Branch Chief
Permits Branch
Office of Air Quality

Subject: **Important Information to Display Regarding a Public Notice for an Air Permit**

Applicant Name: US Steel Corporation Gary Works
Permit Number: 089-48719-00121

Enclosed is a copy of important information to make available to the public. This proposed project is regarding a source that may have the potential to significantly impact air quality. Librarians are encouraged to educate the public to make them aware of the availability of this information. The following information is enclosed for public reference at your library:

- Notice of a 30-day Period for Public Comment
- Draft Permit and Technical Support Document

You will not be responsible for collecting any comments from the citizens. Please refer all questions and request for the copies of any pertinent information to the person named below.

Members of your community could be very concerned in how these projects might affect them and their families. **Please make this information readily available until you receive a copy of the final package.**

If you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185. Questions pertaining to the permit itself should be directed to the contact listed on the notice.

Enclosures
PN Library updated 1/13/2025

Visit on.IN.gov/survey or scan the QR code to provide feedback.

We appreciate your input!





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Mike Braun
Governor

Clint Woods
Commissioner

Notice of Public Comment

July 17, 2025
US Steel Corporation Gary Works
089-48719-00121

To: Interested Parties:

You are receiving this notice because you asked to be on IDEM's notification list for this company and/or county; or because your property is nearby the company being permitted; or because you represent a local/regional government entity. The Indiana Department of Environmental Management, Office of Air Quality, invites your comments on the draft air permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM's Public Notice website at <https://www.in.gov/idem/public-notices/>.

The application and supporting documentation for this proposed permit have been placed at the library indicated in the Notice. These documents more fully describe the project, the applicable air pollution control requirements and how the applicant will comply with these requirements.

If you would like to comment on this draft permit, please contact the person named in the enclosed Public Notice. Thank you for your interest in the Indiana's Air Permitting Program.

Please Note: *If you would like to be removed from the Air Permits mailing list, please contact Joanne Smiddie-Brush with the Air Permits Administration Section at 1-800-451-6027, ext. 3-0185 or via e-mail at JBRUSH@IDEM.IN.GOV. If you have recently moved and this Notice has been forwarded to you, please notify us of your new address and if you wish to remain on the mailing list. Mail that is returned to IDEM by the Post Office with a forwarding address in a different county will be removed from our list unless otherwise requested.*

Enclosure
PN Interested Parties Cover Letter 1/13/2025

Visit on.IN.gov/survey or scan the QR code to provide feedback.

We appreciate your input!





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Mike Braun
Governor

Clint Woods
Commissioner

AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD DRAFT INDIANA AIR PERMIT

July 17, 2025

A 30-day public comment period has been initiated for:

Permit Number: 089-48719-00121
Applicant Name: US Steel Corporation Gary Works
Location: Gary, Lake County, Indiana

The public notice, draft permit and technical support documents can be accessed via the **IDEM Air Permits Online** site at:

<https://www.in.gov/ai/appfiles/idem-caats/>

Questions or comments on this draft permit should be directed to the person identified in the public notice by telephone or in writing to:

Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
Indiana Government Center North
100 North Senate Avenue, Room 13W
Indianapolis, Indiana 46204-2251

Affected States Notification 1/13/2025

Visit on.IN.gov/survey or scan the QR code to provide feedback.

We appreciate your input!



Mail Code 61-53 page 1 of 18

IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		Jacob Blahut US Steel Corporation Gary Works 1 N Broadway MS 70A Gary IN 46402 (Source CAATS)									
2		Daniel Killeen Vice President US Steel Corporation Gary Works 1 N Broadway Gary IN 46402 (RO CAATS)									
3		Gary Mayors Office 401 Broadway #102 Gary IN 46402 (Local Official)									
4		Gary City Health Department 1145 W 5th Ave Gary IN 46402 (Health Department)									
5		Magie Read PO Box 248 Battle Ground IN 47920 (Affected Party)									
6		Lake County Board of Commissioners 2293 N Main St, Bldg A, 3rd Floor Crown Point IN 46307 (Local Official)									
7		Northwestern IN Regional Planning Comm (NIRPC) 6100 Southport Rd Portage IN 46368 (Affected Party)									
8		Barbara G Perez 506 Lilac St East Chicago IN 46312 (Affected Party)									
9		Mr. Robert Garcia 3733 Parrish Ave East Chicago IN 46312 (Affected Party)									
10		Jean Webb Or Current Resident 201 Montclair Ct Evansville IN 47715 (Affected Party)									
11		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)									
12		Mr. Jim Sweeney 1773 Selo Dr Schererville IN 46375 (Affected Party)									
13		Laura Demchuck Or Current Resident 7007 Forest Ave Gary IN 46403 (Affected Party)									
14		Urban League of Northwest Indiana 3101 Broadway Gary IN 46409 (Affected Party)									
15		Gary City Council 401 Broadway #209 Gary IN 46402 (Local Official)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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Mail Code 61-53 page 2 of 18

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											Remarks
1		City of Gary Dept. of Environmental Affairs 401 Broadway, Ste 304 Gary IN 46402 (Local Official)									
2		Mr. Larry Davis 268 S 600 W Hebron IN 46341 (Affected Party)									
3		Gary Public Library and Cultural Center 220 W 5th Ave Gary IN 46402-1270 (Library)									
4		Brett J Tunno United States Steel Corporation 600 Grant St Ste 1774 Pittsburgh PA 15219 (Source – addl contact)									
5		Mr. Terry Steagall Or Current Resident 8577 Kleinman Rd Highland IN 46322 (Affected Party)									
6		Ms. Connie Wachala Or Current Resident 9241 Kennedy Ave Highland IN 46322 (Affected Party)									
7		La Porte County Herald-Dispatch 422 Franklin St, Ste B Michigan City IN 46360 (Affected Party)									
8		Mary Hess 3374 E CR 2000 N Dale IN 47523 (Affected Party)									
9		Mark Bryant Or Current Resident 7299 Main St Wadesville IN 47638 (Affected Party)									
10		Lake County Health Department 2900 W 93rd Ave Crown Point IN 46307 (Health Department)									
11		Kathy Kelly 4120 W 11th Ave Gary IN 46404 (Affected Party)									
12		Dorreen Carey Or Current Resident 7304 Indian Boundary Gary IN 46403 (Affected Party)									
13		Susan Thomas Or Current Resident 215 S Broadway Beverly Shores IN 46301 (Affected Party)									
14		Jennifer Rudderham Or Current Resident 7905 Hemlock Ave Gary IN 46403 (Affected Party)									
15		Carolyn McCrady Or Current Resident 8241 Locust Ave Gary IN 46403 (Affected Party)									

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											Remarks
1		Kimmie Founder/Director Brown Faces Green Spaces 5607 E 3rd Pl Gary IN 46403 (Affected Party)									
2		Seymour Moskowitz Or Current Resident 1753 Lawndale Dr Valparaiso IN 46383 (Affected Party)									
3		Bridgette Murray 7305 Oak Ave Gary IN 46403 (Affected Party)									
4		Dr. Julie Peller Or Current Resident 1320 Brassie Ave Chesterton IN 46304 (Affected Party)									
5		Menards 6300 Mississippi St Merrillville IN 46410 (Affected Party)									
6		Jesus A Gallegos II 6814 Prairie Path Ln Merrillville IN 46410 (Affected Party)									
7		Gary Lee Or Current Resident 5997 W 30th Ave Gary IN 46406 (Affected Party)									
8		Nora Glenn Or Current Resident 8237 Oak Ave Gary IN 46403 (Affected Party)									
9		Doug Martin Or Current Resident 430 E Wood Ave Universal IN 47884 (Affected Party)									
10		Leticia Fiddler Or Current Resident 5740 Yuma Rd West Terre Haute IN 47885 (Affected Party)									
11		Sandra Wilmore Or Current Resident 7841 Forest Ave Gary IN 46403 (Affected Party)									
12		Caryn Corriere Or Current Resident 501 Cherry St Hammond IN 46324 (Affected Party)									
13		Jennifer Dimitroff Or Current Resident 18 E Burwell Dr Porter IN 46304 (Affected Party)									
14		Ellis Walton Environmental Law & Policy Center 35 E Wacker Dr Ste 1600 Chicago IL 60601 (Affected Party)									
15		Matthew Kaplan Or Current Resident 1848 W Chase Ave Chicago IL 60626 (Affected Party)									

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											Remarks
1		Dave Or Current Resident 3036 Calhoun St Gary IN 46406 (Affected Party)									
2		Natalie Ammons Or Current Resident 232 Tyler St Gary IN 46402 (Affected Party)									
3		Lois Whittaker Or Current Resident 215 Doty St Hammond IN 46320 (Affected Party)									
4		Steven Mays Or Current Resident 8937 White Oak Ave Munster IN 46321 (Affected Party)									
5		Phyllis Stout Or Current Resident 6708 E 3rd Ave Gary IN 46403 (Affected Party)									
6		Linda Barnes-Caldwell Or Current Resident 2692 Connecticut St Gary IN 46407 (Affected Party)									
7		Harry Morariu Or Current Resident 2108 Schrage Ave #F1 Whiting IN 46394 (Affected Party)									
8		Or Current Resident 537 Harrison St Gary IN 46402 (Affected Party)									
9		Current Resident 4448 E 13th Ave Gary IN 46403 (Affected Party)									
10		Deja Johnson Or Current Resident 3718 Madison St Gary IN 46408 (Affected Party)									
11		Hildred Merritt Or Current Resident PO Box 641241 Gary IN 46410 (Affected Party)									
12		Loreal Harris Or Current Resident 7809 Independence St Merrillville IN 46410 (Affected Party)									
13		Sabrina M Scott-Jowers Or Current Resident 2266 W 9th Ave Gary IN 46404 (Affected Party)									
14		Michele Smith Or Current Resident 1851 Martin Luther King Dr Gary IN 46407 (Affected Party)									
15		Jacqueline Young Or Current Resident 4653 Washington St Gary IN 46408 (Affected Party)									

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											Remarks
1		Helen Or Current Resident 7117 E 1st Ave Gary IN 46403 (Affected Party)									
2		Erica Wood Or Current Resident 6555 Wilderness Ave Portage IN 46368 (Affected Party)									
3		Porscha Cobb Or Current Resident 4139 W 19th Plaza Gary IN 46404 (Affected Party)									
4		E.M. Pittman Or Current Resident 9370 Tyler St Crown Point IN 46307 (Affected Party)									
5		Aspen Towner Or Current Resident 1842 W 5th Ave Gary IN 46404 (Affected Party)									
6		Sabrina Retic Or Current Resident 117 W 7th Ave Gary IN 46402 (Affected Party)									
7		Alicia Parker Or Current Resident 2728 Van Buren St Gary IN 46407 (Affected Party)									
8		Tyrone Hamilton Or Current Resident 8014 Lakewood Ave Gary IN 46403 (Affected Party)									
9		Llwayne Halliburton Or Current Resident 575 Gerry St Gary IN 46406 (Affected Party)									
10		Tonia Thomas Or Current Resident 7338 E 1st Ave Gary IN 46403 (Affected Party)									
11		Ludeen B. Kilgore Or Current Resident 721 Delaware St Gary IN 46402 (Affected Party)									
12		Libre Booker Or Current Resident 2374 Saturn St Portage IN 46368 (Affected Party)									
13		Lou Donkle Or Current Resident 4101 Hemlock Dr Valparaiso IN 46383 (Affected Party)									
14		Brenda Burch Or Current Resident 1229 Marshall St Gary IN 46404 (Affected Party)									
15		Alice Miley Or Current Resident 7718 Teel Way Indianapolis IN 46256 (Affected Party)									

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Mail Code 61-53 page 6 of 18

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											Remarks
1		Elizabeth Or Current Resident 11429 E Chapel Rd Solsberry IN 47459 (Affected Party)									
2		Dr. Erin Moodie Or Current Resident 927 N Chauncey Ave West Lafayette IN 47906 (Affected Party)									
3		Chris Chyung Or Current Resident 836 Killarney Dr Dyer IN 46311 (Affected Party)									
4		Sr. Kathleen Kelley Or Current Resident 9601 Union Rd Donaldson IN 46513 (Affected Party)									
5		Martina Rukavina Or Current Resident 3902 Sunset Dr Valparaiso IN 46383 (Affected Party)									
6		Bruce Jones Or Current Resident 71 Cod Dr #A Portage IN 46368 (Affected Party)									
7		Amanda Scheitlin Or Current Resident 2626 Medford Dr Fort Wayne IN 46803 (Affected Party)									
8		John Slaughter Or Current Resident 1012 N Bancroft St Indianapolis IN 46201 (Affected Party)									
9		Mary Stewart Or Current Resident PO Box 2588 Gary IN 46403 (Affected Party)									
10		Jordan Shiffriss Or Current Resident 2033 S Montclair Ave Bloomington IN 47401 (Affected Party)									
11		Cheryl Chapman Or Current Resident 2923 Summitt Dr Long Beach IN 46360 (Affected Party)									
12		Chad Crabtree Or Current Resident 1420 Cedar St Elkhart IN 46514 (Affected Party)									
13		Linda Kerr Or Current Resident 10611 Lantern Bay Cove Fort Wayne IN 46845 (Affected Party)									
14		Rachel Miller Jacobs Or Current Resident 311 Gra Roy Dr Goshen IN 46526 (Affected Party)									
15		Rev Anna Lisa Gross Or Current Resident 4898 E 1400 N North Manchester IN 46962 (Affected Party)									

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Mail Code 61-53 page 7 of 18

IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Janet Or Current Resident 3710 Fairfield Ave Fort Wayne IN 46807 (Affected Party)										
2		Eric Riddle Or Current Resident 2204 Home Ave Columbus IN 47201 (Affected Party)										
3		Sr. Claire Whalen Or Current Resident 22143 Main St Oldenburg IN 47036 (Affected Party)										
4		Dr. Rosemarie Jeffery Or Current Resident 209 N Crosscreek Dr Muncie IN 47304 (Affected Party)										
5		Brian Flory Or Current Resident 1705 Florida Dr Fort Wayne IN 46805 (Affected Party)										
6		Sabrina Glidden Or Current Resident 405 S High St Hartford City IN 47348 (Affected Party)										
7		Holly Cummings Or Current Resident 7901 Jackson Ave Munster IN 46321 (Affected Party)										
8		Rev T. Wyatt Watkins Or Current Resident 593 Woodruff Place W Dr Indianapolis IN 46201 (Affected Party)										
9		Sarah Mundell Or Current Resident 1445 N Leland Ave Indianapolis IN 46219 (Affected Party)										
10		Rebecca Dien-Johns Or Current Resident 612 N Temple Ave Indianapolis IN 46201 (Affected Party)										
11		Ronald Rhoads Or Current Resident 15383 Meredith Meadows Dr E Noblesville IN 46060 (Affected Party)										
12		Rachel Sherron Or Current Resident 7431 Oak Ave Gary IN 46403 (Affected Party)										
13		Matthew Mateja Or Current Resident 1146 N Rush St Gary IN 46403 (Affected Party)										
14		Cherisse Louderman Or Current Resident 8500 Locust Ave Gary IN 46403 (Affected Party)										
15		Haley Colson Lewis Environmental Integrity Project 888 17th St NW Ste 810 Washington DC 20006 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

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1		Kerwin Executive Director Citizens Action Coalition 1915 W 18th St Ste C Indianapolis IN 46202 (Affected Party)										
2		Elizabeth Chevalier Or Current Resident 7633 Maple Ave Gary IN 46403 (Affected Party)										
3		Leslie Beck Or Current Resident 1132 N Warren St Gary IN 46403 (Affected Party)										
4		Elizabeth Greenwald Or Current Resident 8601 Maple Ave Gary IN 46403 (Affected Party)										
5		Jessica Easto Or Current Resident 340 N Jasper St Gary IN 46403 (Affected Party)										
6		John Ploof Or Current Resident 1039 N Warren St Gary IN 46403 (Affected Party)										
7		Lynn Haynes Or Current Resident 1718 Sheridan Ave Whiting IN 46394 (Affected Party)										
8		John and Karin Kirulis Or Current Resident 819 N Vigo St Gary IN 46403 (Affected Party)										
9		Kerri Gefeke Environmental Law & Policy Center 35 E Wacker Dr Ste 1600 Chicago IL 60601 (Affected Party)										
10		John Loftus Wisconsin Department of Natural Resources 101 S. Webster Street Madison WI 53707 (Affected Party)										
11		Mary Caldwell Or Current Resident 3834 W 10th Ave Gary IN 46404 (Affected Party)										
12		Sherry Hurt Or Current Resident 5100 Bassett Ave Evansville IN 47715 (Affected Party)										
13		Linda Evinger Or Current Resident 1300 Mohr Rd Evansville IN 47720 (Affected Party)										
14		David Wildemann Or Current Resident 944 Parkside Dr Columbus IN 47203 (Affected Party)										
15		Dwight Suggs Or Current Resident 1625 Rhode Island St Gary IN 46407 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Donna Or Current Resident 2605 Wabash Ave Gary IN 46404 (Affected Party)										
2		Willie Cook Or Current Resident 8113 Lakeshore Dr Gary IN 46403 (Affected Party)										
3		Bruce Curry Or Current Resident 1771 Marshall St Gary IN 46404 (Affected Party)										
4		Kwabena Rasuli Or Current Resident 3724 Mississippi St Gary IN 46409 (Affected Party)										
5		William Cary Or Current Resident 7304 Indian Boundry Gary IN 46403 (Affected Party)										
6		Valerie Denney Or Current Resident 520 S State #1409 Chicago IL 60605 (Affected Party)										
7		Tishie Woodwell Or Current Resident 920 Fairview Rd Pittsburgh PA 15238 (Affected Party)										
8		David Hacker Or Current Resident 9481 Pembroke Cir Irwin PA 15642 (Affected Party)										
9		Jacob Blahut Or Current Resident 767 Kenmore Pkwy Crown Point IN 46307 (Affected Party)										
10		Joseph Hanning Or Current Resident 1 N Broadway MS 70-A Gary IN 46402 (Affected Party)										
11		Angela Smith Or Current Resident 1031 E 16th Ave Gary IN 46407 (Affected Party)										
12		Sy Moskowitz Or Current Resident 1753 Lawndale Dr Valparaiso IN 46383 (Affected Party)										
13		Penny Cochran Or Current Resident 898 Parke St Gary IN 46403 (Affected Party)										
14		Gloria Fallon Or Current Resident 7605 Locust Ave Gary IN 46403 (Affected Party)										
15		Brenda Scott-Henry Or Current Resident 401 Broadway Gary IN 46402 (Affected Party)										

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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											Remarks
1		Maya Or Current Resident 2227 Georgia St Gary IN 46407 (Affected Party)									
2		Michelle Quinn Or Current Resident 111 W 35th Ct #4 Griffith IN 46319 (Affected Party)									
3		Chris Iceman Or Current Resident 1704 Eisenhower Ave Valparaiso IN 46383 (Affected Party)									
4		Laura Sucec Or Current Resident 5835 Apple Blossom Dr Brownsburg IN 46112 (Affected Party)									
5		Nina OLeary Or Current Resident 4215 Greenway Dr Indianapolis IN 46220 (Affected Party)									
6		Elyse Roseberry Or Current Resident 678 W Timothy Dr La Porte IN 46350 (Affected Party)									
7		Lori Schmitt Or Current Resident 5801 Choicecut Ct Evansville IN 47720 (Affected Party)									
8		John Blair Or Current Resident 800 Adams Ave Evansville IN 47713 (Affected Party)									
9		Dano Davenport Or Current Resident 1338 Laurel St Indianapolis IN 46203 (Affected Party)									
10		Jacqueline Sizemore Or Current Resident 15009 Maple St Brookville IN 47012 (Affected Party)									
11		Christina Cesnik Or Current Resident 9561 E Southport Rd Indianapolis IN 46259 (Affected Party)									
12		Sally Small Or Current Resident 802 N Layman Ave Indianapolis IN 46219 (Affected Party)									
13		Elise Hertz Or Current Resident 935 Dequincy St Indianapolis IN 46201 (Affected Party)									
14		Steven Ross Or Current Resident 835 E 79th St Indianapolis IN 46240 (Affected Party)									
15		Linda Moellering Or Current Resident 203 E Berry St Ste 1407 Fort Wayne IN 46802 (Affected Party)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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											Remarks
1		Mary Or Current Resident 209 Auburn Dr Newburgh IN 47630 (Affected Party)									
2		Art Smoker Or Current Resident 1332 Greencroft Dr Goshen IN 46526 (Affected Party)									
3		James Winkelmann Or Current Resident 8235 Taunton Rd Indianapolis IN 46260 (Affected Party)									
4		Diana McDonald Or Current Resident 3199 Harvest Grove Ln Bargersville IN 46106 (Affected Party)									
5		Susan Yoder Or Current Resident 9935 Spring Creek Ct Avon IN 46123 (Affected Party)									
6		Tony Paxton Or Current Resident 1215 Elston St Michigan City IN 46360 (Affected Party)									
7		Jyotika Saksena Or Current Resident 2607 N Delaware St Indianapolis IN 46205 (Affected Party)									
8		Fred Longenecker Or Current Resident 1351 Berkshire Dr South Bend IN 46614 (Affected Party)									
9		Ron Benko Or Current Resident 2144 Stanton Ave Whiting IN 46394 (Affected Party)									
10		Abby Molino Or Current Resident 5790 W Homestead Dr Frankton IN 46044 (Affected Party)									
11		Jennifer Yumibe Or Current Resident 5340 E 74th Pl Indianapolis IN 46250 (Affected Party)									
12		Kimberly Gerhart-Fritz Or Current Resident 7829 Wawasee Ct Indianapolis IN 46250 (Affected Party)									
13		Monica Earle Or Current Resident 5371 Thornapple Ln Apt 101 Lafayette IN 47905 (Affected Party)									
14		Monica Cannaley Or Current Resident 3907 Elkhorn Wy Westfield IN 46074 (Affected Party)									
15		David Quinn Or Current Resident 719 Kent Ave West Lafayette IN 47906 (Affected Party)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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Mail Code 61-53 page 12 of 18

IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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											Remarks
1		Ann Or Current Resident 2214 St John Rd Schererville IN 46375 (Affected Party)									
2		Gdog McDonald Or Current Resident 6855 Woodcrest Greenfield IN 46140 (Affected Party)									
3		Mark Grassman Or Current Resident 726 Negley Ave Evansville IN 47711 (Affected Party)									
4		Paul Severance Or Current Resident 326 N 15th Ave Beech Grove IN 46107 (Affected Party)									
5		Jessica Rodrick Or Current Resident 290 N Wabash St Hobart IN 46342 (Affected Party)									
6		Libby Gwynn Or Current Resident 1314 S Lincoln St Bloomington IN 47401 (Affected Party)									
7		Susan Medland Or Current Resident 505 E Dodds St Bloomington IN 47401 (Affected Party)									
8		Randy Johnson Or Current Resident 309 N Main St Tipton IN 46072 (Affected Party)									
9		Steve Adkins Or Current Resident 410 Plaza Dr Evansville IN 47715 (Affected Party)									
10		Thomas Wallace Or Current Resident 2470 Goose Creek Rd Martinsville IN 46151 (Affected Party)									
11		Vince Sitterding Or Current Resident 3873 S Orchard Ct Lafayette IN 47905 (Affected Party)									
12		Bruce Hlodnicki Or Current Resident 6235 Lawrence Dr Indianapolis IN 46226 (Affected Party)									
13		Kathleen OConnell Or Current Resident 5360 Singleton St Indianapolis IN 46227 (Affected Party)									
14		Harriet Moore Or Current Resident 725 E Seminary St Greencastle IN 46135 (Affected Party)									
15		Bruce Bartlett Or Current Resident 409 N Oakland St Colfax IN 46035 (Affected Party)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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Mail Code 61-53 page 13 of 18

IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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1		Lauren Or Current Resident 3506 E Winston St Bloomington IN 47401 (Affected Party)										
2		Roberta Krum Or Current Resident 713 Pemberly Ct Noblesville IN 46060 (Affected Party)										
3		Catherine Snyder Or Current Resident 6271 Allisonville Rd Indianapolis IN 46220 (Affected Party)										
4		Carl Hetler Or Current Resident 301 E Lasalle Ave Apt 108B South Bend IN 46617 (Affected Party)										
5		Brenda Haddock Or Current Resident 9119 Concert Ln Indianapolis IN 46231 (Affected Party)										
6		Jay Wetzel Or Current Resident 3508 Busseron Ln Indianapolis IN 46220 (Affected Party)										
7		John Smillie Or Current Resident 1014 W Main St Crawfordsville IN 47933 (Affected Party)										
8		William Wood Or Current Resident 6030 Stoneroot Pl Indianapolis IN 46203 (Affected Party)										
9		Terry Butler Or Current Resident 1526 Tallgrass Trl Fort Wayne IN 46804 (Affected Party)										
10		Kristin Stith Or Current Resident 2671 SR 26 W West Lafayette IN 47906 (Affected Party)										
11		Karen Kazmierzak Or Current Resident 23364 Lawrence St South Bend IN 46628 (Affected Party)										
12		Alexandra Magallanes Or Current Resident 4333 Torrence Ave Hammond IN 46327 (Affected Party)										
13		Sergio Meza Or Current Resident 5113 Ruth St East Chicago IN 46312 (Affected Party)										
14		Tom Probasco Or Current Resident 6163 Haverford Ave Indianapolis IN 46220 (Affected Party)										
15		Jean Stevenson Or Current Resident 6900 Connecticut St Merrillville IN 46410 (Affected Party)										

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IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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											Remarks
1		Karen Or Current Resident 56932 Meadowood Dr Elkhart IN 46516 (Affected Party)									
2		Virrither Cooper Or Current Resident 5451 N Kenmore Rd Indianapolis IN 46226 (Affected Party)									
3		Barbara Hargrove Or Current Resident 22 Coolidge St Hammond IN 46324 (Affected Party)									
4		Jerry Cadwalader Or Current Resident 9746 Georgetowne Dr Highland IN 46322 (Affected Party)									
5		Kenneth Kish Or Current Resident 203 Cheshire Ln Lafayette IN 46909 (Affected Party)									
6		Christopher Moore Or Current Resident 5710 Haverford Ave Indianapolis IN 46220 (Affected Party)									
7		Michael Rosswurm Or Current Resident 2532 Valley Creek Run New Haven IN 46774 (Affected Party)									
8		Jesse Kirkham Or Current Resident 370 Kaymar Dr Danville IN 46122 (Affected Party)									
9		Marcia Daehler Or Current Resident 401 Rabbit Run Rd West Lafayette IN 47906 (Affected Party)									
10		Kayla Allen Or Current Resident 10355 Price St Crown Point IN 46307 (Affected Party)									
11		Dwayne Thomas Or Current Resident 3040 W Ridge Rd Gary IN 46408 (Affected Party)									
12		Jennifer Torres Or Current Resident 5005 Fawn Lake Dr Evansville IN 47711 (Affected Party)									
13		Joseph Cast Or Current Resident 710 S 17th St Terre Haute IN 47807 (Affected Party)									
14		Catherine Septoski Or Current Resident 6690 Teeters Ln Martinsville IN 46151 (Affected Party)									
15		Christin Nevins Or Current Resident 11120 Long Lake Ln Fishers IN 46037 (Affected Party)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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											Remarks
1		Noell Or Current Resident 7915 Alexander St Indianapolis IN 46259 (Affected Party)									
2		Kathryn Wilda Or Current Resident 15 Cedar Crest Zionsville IN 46077 (Affected Party)									
3		Janet Ault Or Current Resident 4185 Gran Haven Dr Bloomington IN 47401 (Affected Party)									
4		Korbin Korb Or Current Resident 2155 E Powell Ave Evansville IN 47714 (Affected Party)									
5		Hollie Korb Or Current Resident 2155 E Powell Ave Evansville IN 47714 (Affected Party)									
6		Kelly Housman Or Current Resident 504 S Weinbach Ave Evansville IN 47714 (Affected Party)									
7		Catt Wade Or Current Resident 9405 N SR 39 Mooresville IN 46158 (Affected Party)									
8		Julia Bebeau Or Current Resident 1112 E Buckingham E St Bloomington IN 47401 (Affected Party)									
9		Karen Dice Or Current Resident 9821 Glen Dr Mooresville IN 46158 (Affected Party)									
10		Sheila Kavanaugh Or Current Resident 3343 Oceanline Dr Indianapolis IN 46214 (Affected Party)									
11		Cynthia Clark Or Current Resident 2203 Broadway St Apt 13 Indianapolis IN 46205 (Affected Party)									
12		Jeseeph Meyers Or Current Resident 2016 Vogel Rd Evansvilles IN 47711 (Affected Party)									
13		Kylie Carrithers Or Current Resident 1725 S 5th St Terre Haute IN 47802 (Affected Party)									
14		Chris Johnson Or Current Resident 566 Century Oaks Dr Zionsville IN 46077 (Affected Party)									
15		Martha Denton Or Current Resident 517 W Main St Madison IN 47250 (Affected Party)									

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											Remarks
1		Mary Or Current Resident 607 Rosenberger Ave Evansville IN 47712 (Affected Party)									
2		Heather Stover Or Current Resident 740 Kilbourne Dr Greenwood IN 46142 (Affected Party)									
3		Cheryl Haium Or Current Resident 3421 W Tilson Pl Bloomington IN 47403 (Affected Party)									
4		Eugene Wantuck Or Current Resident 7429 Dean Rd Indianapolis IN 46240 (Affected Party)									
5		Charlotte Jones Or Current Resident 1533 Union St Indianapolis IN 46225 (Affected Party)									
6		Cheryl Fowler Or Current Resident 1509 Woodlawn Ave West Lafayette IN 47906 (Affected Party)									
7		Phyllis Stutzman Or Current Resident 627 River Race Dr Goshen IN 46526 (Affected Party)									
8		Patricia Massa Or Current Resident 9023 Marquette St Saint John IN 46373 (Affected Party)									
9		Carol Dambrosio Or Current Resident 1340 Meadowbrook Dr Indianapolis IN 46240 (Affected Party)									
10		Gary Pope Or Current Resident 1563 Williamsburg Ln Franklin IN 46131 (Affected Party)									
11		Christine Colon Or Current Resident 4024 E 14th Pl Gary IN 46403 (Affected Party)									
12		April Valentine Or Current Resident 7024 Magoun Ave Hammond IN 46324 (Affected Party)									
13		Margaret Brabant Or Current Resident 538 Ripple Rd Indianapolis IN 46208 (Affected Party)									
14		Georgann Cattelona Or Current Resident 1016 E University St Bloomington IN 47401 (Affected Party)									
15		Paula Berbeco Or Current Resident 3516 Circle Blvd Indianapolis IN 46220 (Affected Party)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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IDEM Staff	CMOSIER 7/17/2025 US Steel Corporation Gary Works 089-48719-00121 (draft)			AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: CERTIFICATE OF MAILING ONLY	

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		Dr. Or Current Resident 6005 Sawmill Woods Dr Fort Wayne IN 46835 (Affected Party)									
2		Ruth Kauffmann Or Current Resident 417 S 6th St Goshen IN 46526 (Affected Party)									
3		Michele Morris Or Current Resident 3304 Sudbury Pl Fort Wayne IN 46815 (Affected Party)									
4		Stephen Dunlop Or Current Resident 5507 Shorewood Dr Indianapolis IN 46220 (Affected Party)									
5		Kevin Harlow Or Current Resident 8345 Buckingham Dr Columbus IN 47201 (Affected Party)									
6		Linda Kerr Or Current Resident 10611 Lantern Bay Cv Fort Wayne IN 46845 (Affected Party)									
7		Julia Hogan Or Current Resident 5305 N Washington Blvd Indianapolis IN 46220 (Affected Party)									
8		Sandra Ameis Or Current Resident 218 Redwood Cir Noblesville IN 46062 (Affected Party)									
9		Wanda Wilkey Or Current Resident 7990 Deer Run Ct Terre Haute IN 47802 (Affected Party)									
10		Sarah Kopeschka Or Current Resident 3191 Vinton Cir Kokomo IN 46902 (Affected Party)									
11		Gloria Linville Or Current Resident 5933 Bunty Ln Carmel IN 46033 (Affected Party)									
12		Heather McCarthy Or Current Resident 363 S Lake St Gary IN 46403 (Affected Party)									
13		Stephen Searcy Or Current Resident 7711 Platini Pl Indianapolis IN 46214 (Affected Party)									
14		Linda James Or Current Resident 3809 Debbie Ln Evansville IN 47711 (Affected Party)									
15		Alan Morrison House of Representatives 200 W Washington St Indianapolis IN 46204 (Local Official)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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1		Wendy Or Current Resident 5544 W Smokey Row Rd Greenwood IN 46143 (Affected Party)										
2		Kasi Spyker-Duncan Or Current Resident 8123 N Fox Hollow Rd Bloomington IN 47408 (Affected Party)										
3		Sandra Mosley Or Current Resident 1554 Hendricks St Gary IN 46404 (Affected Party)										
4		Laura Greenwalt Or Current Resident 5924 Birch Ave Gary IN 46403 (Affected Party)										
5		Ms. Hilary Lewis 530 Walnut Street, Suite 200 Cincinnati OH 45202 (Affected Party)										
6		Mark Templeton The University of Chicago Law School 6020 S University Ave Chicago IL 60637 (Affected Party)										
7		Holly Welch Or Current Resident 5158 Broadway St Indianapolis IN 46205 (Affected Party)										
8		Maria Nunez Or Current Resident 7019 Kensington Dr E Fort Wayne IN 46818 (Affected Party)										
9		Madeline Hirschland Or Current Resident 1228 E Maxwell Ln Bloomington IN 47401 (Affected Party)										
10												
11												
12												
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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