NOTICE OF 30-DAY PERIOD
FOR PUBLIC COMMENT

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

for Metal Services, LLC dba Phoenix Services, LLC, a contrator of ArcelorMittal Burns Harbor

Significant Source Modification No.: 127-41626-00026
Significant Permit Modification/Revision No.: 127-41633-00026

The Indiana Department of Environmental Management (IDEM) has received an application from Phoenix Services - Burns Harbor located at 250 US Hwy 12, Burns Harbor, Indiana 46304, for a significant modification of its Part 70 Operating Permit issued on May 31, 2016. If approved by IDEM’s Office of Air Quality (OAQ), this proposed modification would allow Phoenix Services - Burns Harbor to make certain changes at its existing source. Phoenix Services - Burns Harbor has applied to add one (1) portable plant equipped with two (2) non-road diesel engine generators and to replace two (2) diesel tanks with a bigger capacity tank.

The applicant intends to construct and operate new equipment that will emit air pollutants; therefore, the permit contains new or different permit conditions. In addition, 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). IDEM has reviewed this application and has developed preliminary findings, consisting of a draft permit and several supporting documents, which would allow the applicant to make this change.

A copy of the permit application and IDEM’s preliminary findings are available at:

Westchester Public Library
200 West Indiana Avenue
Chesterton, Indiana 46304
and
IDEM Northwest Regional Office
330 W. US Highway 30, Suites E & F
Valparaiso, IN 46385

A copy of the preliminary findings is available on the Internet at: [http://www.in.gov/ai/appfiles/idem-caats/](http://www.in.gov/ai/appfiles/idem-caats/).

A copy of the preliminary findings is also available via IDEM’s Virtual File Cabinet (VFC). Please go to: [http://www.in.gov/idem/](http://www.in.gov/idem/) and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria.

How can you participate in this process?

The date that this notice is posted on IDEM’s website ([https://www.in.gov/idem/5474.htm](https://www.in.gov/idem/5474.htm)) 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 a public hearing or meeting is held, IDEM will make a separate announcement of the date, time, and location of that hearing or meeting. 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 SSM 127-41626-00026 and SPM 127-41633-00026 in all correspondence.

Comments should be sent to:

Wilfredo de la Rosa  
IDEM, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
(800) 451-6027, ask for Wilfredo de la Rosa or (317) 232-8422  
Or dial directly: (317) 232-8422  
Fax: (317) 232-6749 attn: Wilfredo de la Rosa  
E-mail: wdelaros@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: http://www.in.gov/idem/airquality/2356.htm; and the Citizens’ Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

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 address indicated above, at the local library indicated above, at the IDEM Regional Office indicated above, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46204-2251.

If you have any questions, please contact Wilfredo de la Rosa of my staff at the above address.

Josiah K. Balogun, Section Chief  
Permits Branch  
Office of Air Quality
Mr. Keith Flynn  
Metal Services, LLC dba Phoenix Services, LLC  
250 W US Hwy 12  
Burns Harbor, Indiana 46304

Re: 127-41626-00026  
Significant Source Modification

Dear Mr. Flynn:

Metal Services, LLC dba Phoenix Services, LLC, a contractor of ArcelorMittal Burns Harbor, LLC was issued Part 70 Operating Permit Renewal No. T127-36307-00026 on May 31, 2016 for a stationary slag finishing operation located at 250 W US Hwy 12, Burns Harbor, Indiana 46304. An application to modify the source was received on July 1, 2019. Pursuant to the provisions of 326 IAC 2-7-10.5, a Significant Source Modification is hereby approved as described in the attached Technical Support Document.

Pursuant to 326 IAC 2-7-10.5, the following emission units are approved for construction at the source:

(a) One (1) portable plant for miscellaneous crushing, screening and boat/barge loading, identified as Portable Miscellaneous Plant, approved in 2019 for construction, with a maximum capacity of 1,000 tons per hour, powered by non-road engines, using wet suppression for fugitive emissions control, consisting of the following equipment:

(1) One (1) Feeder with maximum capacity of 1,000 tons per hour;  
(2) One (1) feed conveyor with maximum capacity of 1,000 tons per hour;  
(3) One (1) screen with maximum capacity of 550 tons per hour;  
(4) One (1) screen under conveyor with maximum capacity of 550 tons per hour;  
(5) Two (2) screen output conveyors with maximum capacity of 550 tons per hour, each;  
(6) One (1) standby stacker/conveyor with maximum capacity of 1,000 tons per hour;  
(7) One (1) magnet with maximum capacity of 300 tons per hour;  
(8) One (1) stacker/conveyor with maximum capacity of 1,000 tons per hour;  
(9) One (1) crusher with maximum capacity of 500 tons per hour;  
(10) One (1) crusher feed conveyor with maximum capacity of 500 tons per hour; and  
(11) One (1) crusher output conveyor with maximum capacity of 500 tons per hour.

(b) Two (2) portable non-road diesel engine generators, approved in 2019 for installation, each with a capacity of 500 HP or less.

Note: Non-road engines are not considered in the emission calculations.

(c) One (1) 12,000-gallon diesel AST identified as EE001-9012, approved in 2019 for construction [326 IAC 8-9]

Note: This new tank will retain the old designation of the replaced 2,500-gallon tank. There are no
emissions from this unit.

The following construction conditions are applicable to the proposed modification:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).

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

Effective Date of the Permit

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

Commenced Construction

4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(j), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Approval to Construct

6. Pursuant to 326 IAC 2-7-10.5(h)(2), this Significant Source Modification authorizes the construction of the new emission unit(s), when the Significant Source Modification has been issued.

Pursuant to 326 IAC 2-7-10.5(m), the emission units constructed under this approval shall not be placed into operation prior to revision of the source’s Part 70 Operating Permit to incorporate the required operation conditions.

Pursuant to 326 IAC 2-7-12, operation of the new emission unit(s) is not approved until the Significant Permit Modification has been issued. Operating conditions shall be incorporated into the Part 70 Operating Permit as a Significant Permit Modification in accordance with 326 IAC 2-7-10.5(m)(2) and 326 IAC 2-7-12 (Permit Modification).

A copy of the permit is available on the Internet at: http://www.in.gov/ai/appfiles/idem-caats/. A copy of the permit is also available via IDEM’s Virtual File Cabinet (VFC). Please go to: http://www.in.gov/idem/ and enter VFC in the search box. You will then have the option to search for permit documents using a variety of criteria. 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: http://www.in.gov/idem/airquality/2356.htm; and the Citizens’ Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.

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

If you have any questions regarding this matter, please contact Wilfredo de la Rosa, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 232-8422 or (800) 451-6027, and ask for Wilfredo de la Rosa or (317) 232-8422.

Sincerely,

Josiah K. Balogun, Section Chief
Permits Branch
Office of Air Quality

Attachments: Significant Source Modification and Technical Support Document

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

Significant Source Modification
to a Part 70 Source

OFFICE OF AIR QUALITY

Metal Services, LLC dba Phoenix Services, LLC - a contractor of ArcelorMittal Burns Harbor, LLC
250 W US Hwy 12
Burns Harbor, Indiana 46304

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

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

Significant Source Modification No.: 127-41626-00026
Master Agency Interest ID.: 100016

Issued by: Josiah K. Balogun, Permits Branch Office of Air Quality

Issuance Date:
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Attachment A: Fugitive Dust Control Plan
SECTION A SOURCE SUMMARY

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

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary slag finishing operation.

| Source Address: | 250 U.S. Highway 12, Burns Harbor, Indiana 46304 |
| General Source Phone Number: | 219-246-0346 |
| SIC Code: | 3312 (Steel Works, Blast Furnaces, and Rolling Mills) 3295 (Minerals and Earths) |
| County Location: | Porter |
| 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 Major Source under Emission Offset Rules Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories |

A.2 Part 70 Source Definition

This slag finishing operation consists of a source with on-site contractors:

(a) ArcelorMittal Burns Harbor, LLC (127-00001), the primary operation, is located at, 250 U.S. Highway 12, Burns Harbor, Indiana 46304.

(b) Indiana Flame (T127-00098), the on-site contractor, is located at 250 U.S. Highway 12, Burns Harbor, Indiana 46304.

(c) Metal Services LLC dba Phoenix Services LLC (T127-00026), the on-site contractor, is located at 250 U.S. Highway 12, Burns Harbor, Indiana 46304.

(d) Mid-Continent Coal and Coke (T127-00108), the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304.

(e) SMS Mill Services, LLC (T127-00076), the on-site contractor, is located at 250 U.S. Highway 12, Burns Harbor, Indiana 46304.

(f) Beemsterboer Slag Corp (127-00116), the on-site contractor, is located at 250 U.S. Highway 12, Burns Harbor, Indiana 46304.

(g) PSC Metals Inc. (127-00118), the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304.

(h) Oil Technology (T127-00074), the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304.

(i) Fritz Enterprises, Inc. the on-site contractor, is located at U.S. Highway 12, Burns Harbor,
Separate Part 70 Administrative permits will be issued to ArcelorMittal Burns Harbor, LLC (127-00001) and each of its 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:

**Burns Harbor Site**

(a) An open air Slag Pot Dumping operation constructed in 1969 which receives slag pots by pot carrier from the BOF, identified as EU001-01, with collective fugitive emissions EP001-9011.

(b) An open air Slag Pot Preparation operation constructed in 1969, identified as EU001-04, consisting of relining and conditioning of empty pots, with pot material additive, with collective fugitive emissions EP001-9001.

(c) Stock piles and product storage piles located at Port of Indiana storage yard, Portage.

(d) Main Plant, with a maximum material throughput capacity of 1,500 tons per hour (tph), approved in 2012 for construction, using wet suppressant for fugitive emissions control, consisting of the following equipment:

(A) One (1) step deck feeder (F1), with a capacity of 1500 tph

(B) Crushing

(1) One (1) pan feeder (F2), with a capacity of 500 tons per hour
(2) One (1) conveyor (C5), with a capacity of 500 tph
(3) One (1) mag/pendulum head pulley (C5)
(4) One (1) dual finger gate splitter at C5
(5) One (1) dual finger gate splitter at Crusher/Impactor
(6) One (1) pan feeder (F3), with a capacity of 510 tph
(7) One (1) pan feeder (F4), with a capacity of 500 tph
(8) One (1) jaw crusher, with a capacity of 500 tph
(9) One (1) impactor, with a capacity of 500 tph
(10) One (1) conveyor (C6A), with a capacity of 500 tph
(11) One (1) conveyor (C6B), with a capacity of 500 tph

(C) Screening

(1) One (1) conveyor (C1), with a capacity of 1500 tph
(2) One (1) 150-ton bin, with a capacity of 1500 tph
(3) One (1) feeder (MF400) (F5), with a capacity of 1500 tph
(4) One (1) conveyor (C2), with a capacity of 1500 tph
(5) One (1) mag head pulley (C2)
(6) One (1) dual finger gate splitter at C2
(7) One (1) dual finger gate splitter at F6/F7
(8) One (1) feeder (F6), with a capacity of 750 tph
(9) One (1) feeder (F7), with a capacity of 750 tph
(10) One (1) conveyor (C3A), with a capacity of 750 tph
(11) One (1) conveyor (C3B), with a capacity of 750 tph
(12) One (1) triple chute gate splitter at S1/S2/S3
(13) One (1) screen (S1), with a capacity of 750 tph
(14) One (1) dual finger gate splitter at S1
(15) One (1) conveyor (C7A), with a capacity of 500 tph
(16) One (1) screen (S2), with a capacity of 750 tph
(17) One (1) dual finger gate splitter at S2
(18) One (1) conveyor (C7B), with a capacity of 500 tph
(19) One (1) screen (S3), with a capacity of 750 tph
(20) One (1) dual finger gate splitter at S3
(21) One (1) conveyor (C7C), with a capacity of 500 tph
(22) One (1) conveyor (C11A), with a capacity of 1000 tph
(23) One (1) stack conveyor (C15), with a capacity of 1000 tph
(24) One (1) conveyor (C9), with a capacity of 700 tph
(25) One (1) stack conveyor (C14), with a capacity of 700 tph
(26) One (1) conveyor (C8), with a capacity of 400 tph
(27) One (1) stack conveyor (C13), with a capacity of 178.2 tph
(28) One (1) mag head pulley (C13), with a capacity of 400 tph
(29) One (1) dual finger gate splitter at C13

(D) Scrap Processing

(1) One (1) 50-ton scrap bin (F1), with a capacity of 700 tph
(2) One (1) feeder (F8), with a capacity of 700 tph
(3) One (1) conveyor (C4), with a capacity of 700 tph
(4) One (1) dual finger gate splitter at C4
(5) One (1) screen (S4), with a capacity of 350 tph
(6) One (1) dual finger gate splitter at S4
(7) One (1) conveyor (C10A), with a capacity of 200 tph
(8) One (1) screen (S5), with a capacity of 350 tph
(9) One (1) dual finger gate splitter at S5
(10) One (1) conveyor (C10B), with a capacity of 200 tph
(11) One (1) conveyor (C11B), with a capacity of 400 tph
(12) One (1) stack conveyor (C17), with a capacity of 400 tph
(13) One (1) conveyor (C12), with a capacity of 400 tph
(14) One (1) stack conveyor (C16), with a capacity of 400 tph
(15) One (1) conveyor (C18), with a capacity of 200 tph
(16) One (1) stack conveyor (C19), with a capacity of 200 tph

(e) Chip Plant, with a maximum material throughput capacity of 500 tons per hour (tph), approved in 2012 for construction (unless noted otherwise), using wet suppressant for fugitive emissions control, consisting of the following equipment:

(1) One (1) feed hopper (B1), with a capacity of 500 tph
(2) One (1) feeder (F9), with a capacity of 500 tph
(3) One (1) conveyor (C1), with a capacity of 500 tph
(4) One (1) conveyor (C2), with a capacity of 800 tph
(5) One (1) crusher, with a capacity of 500 tph
(6) One (1) conveyor (C5), with a capacity of 500 tph
(7) One (1) screen (S1), with a capacity of 400 tph
(8) One (1) conveyor (C3), with a capacity of 150 tph
(9) One (1) screen (S2), with a capacity of 400 tph
(10) One (1) conveyor (C4), with a capacity of 150 tph
(11) One (1) conveyor (C10), with a capacity of 300 tph
(12) One (1) stack conveyor (C11), with a capacity of 55 tph
(13) One (1) conveyor (C8), with a capacity of 250 tph
(14) One (1) mag cross belt (M2)
(15) One (1) stack conveyor (C9), with a capacity of 78.375 tph
(16) One (1) conveyor (C6), with a capacity of 250 tph
(17) One (1) mag cross belt (M1)
(18) One (1) stack conveyor (C7), with a capacity of 250 tph
(19) One (1) conveyor (C12), approved in 2013 for construction, with a capacity of 300 tph
(20) One (1) conveyor (C13), approved in 2013 for construction, with a capacity of 300 tph
(21) One (1) crusher (crusher 2), approved in 2013 for construction, with a capacity of 400 tph
(22) One (1) screen (S3), approved in 2013 for construction, with a maximum capacity of 75 tph.
(23) One (1) conveyor (C14), approved in 2013 for construction, with a maximum capacity of 50 tph.
(24) One (1) conveyor (C15), approved in 2013 for construction, with a maximum capacity of 50 tph.
(25) One (1) portable wet screening plant, approved in 2014 for construction, with a maximum capacity of 450 tons per hour, including the following:
   (A) One (1) feeding chute, identified as Feed Chute, with a maximum throughput capacity of 450 tons per hour;
   (B) One (1) screen, identified as Wet Screen, with a maximum throughput capacity of 450 tons per hour;
   (C) Three (3) output chutes, identified as Output Chutes 1, 2, and 3, each with a maximum throughput capacity of 135 tons per hour;
   (D) One (1) oversize chute, identified as Oversize Chute, with a maximum throughput capacity of 45 tons per hour.
(26) One (1) dump plant, approved in 2015 for construction, identified as Dump Plant, with a maximum capacity of 500 tons per hour, using wet suppression for fugitive emissions control, consisting of the following equipment:
   (A) One (1) grizzly feeder, with a capacity of 500 tph
   (B) One (1) feed conveyor, with a capacity of 500 tph
   (C) Two (2) splitter drops, each with a capacity of 500 tph
   (D) One (1) scrap stacker/conveyor, with a capacity of 150 tph
   (E) One (1) main conveyor, with a capacity of 500 tph
   (F) One (1) magnet, with a capacity of 15 tph
   (G) Two (2) crusher conveyors, each with a capacity of 300 tph
   (H) One (1) crusher/impactor, with a capacity of 300 tph
   (I) One (1) crusher output conveyor, with a capacity of 300 tph
   (J) One (1) screen and five (5) screen conveyors, each with a capacity of 400 tph
   (K) One (1) snub conveyor, with a capacity of 400 tph
   (L) One (1) output stacker/conveyor, with a capacity of 400 tph

(f) Portable/Auxiliary Equipment, with a maximum material throughput capacity of 600 tons per hour (tph), approved in 2012 for construction, using wet suppressant for fugitive emissions control, consisting of the following equipment:
   (A) Portable Plant 1
(1) One (1) conveyor, with a capacity of 600 tph
(2) One (1) portable crusher, with a capacity of 600 tph
(3) One (1) conveyor, with a capacity of 600 tph
(4) One (1) portable screen, with a capacity of 600 tph
(5) Three (3) portable input conveyors (33%), with a capacity of 600 tph
(6) Three (3) portable output stacker/conveyors (33% ea), with a capacity of 600 tph

(B) Portable boat loader
(1) One (1) feed hopper, with a capacity of 1500 tph
(2) One (1) conveyor/stacker, with a capacity of 1500 tph

(C) Portable stacker
(1) One (1) feed hopper, with a capacity of 250 tph
(2) One (1) conveyor/stacker, with a capacity of 250 tph

(D) Portable screener
(1) One (1) screen, with a capacity of 250 tph
(2) Three (3) conveyors (33% each), with a capacity of 250 tph

(E) Portable screener
(1) One (1) feed hopper, with a capacity of 250 tph
(2) One (1) screen, with a capacity of 250 tph
(3) One (1) conveyor/stacker, with a capacity of 250 tph

(F) Portable Plant 2
(1) One (1) grizzly, with a capacity of 500 tph
(2) One (1) feeder, with a capacity of 500 tph
(3) One (1) screen, with a capacity of 500 tph
(4) Four (4) output conveyors (25% ea), with a capacity of 500 tph
(5) One (1) crusher or impactor, with a capacity of 500 tph
(6) One (1) magnet

(g) One (1) portable upgrade plant, approved in 2015 for construction, identified as Portable Upgrade Plant, with a maximum capacity of 500 tons per hour, using wet suppression for fugitive emissions control, consisting of the following equipment:

(1) One (1) grizzly, with a capacity of 500 tph
(2) One (1) feeder/conveyor combo unit, with a capacity of 500 tph
(3) One (1) screen and one (1) screen conveyor, each with a capacity of 500 tph
(4) Two (2) output conveyors, each with a capacity of 250 tph
(5) Two (2) stacker/conveyors, each with a capacity of 250 tph
(6) Two (2) magnets, each with a capacity of 15 tph

(h) One (1) portable plant for miscellaneous crushing, screening and boat/barge loading, identified as Portable Miscellaneous Plant, approved in 2019 for construction, with a maximum capacity of 1,000 tons per hour, powered by non-road engines, using wet suppression for fugitive emissions control, consisting of the following equipment:
(1) One (1) Feeder with maximum capacity of 1,000 tons per hour;
(2) One (1) feed conveyor with maximum capacity of 1,000 tons per hour;
(3) One (1) screen with maximum capacity of 550 tons per hour;
(4) One (1) screen under conveyor with maximum capacity of 550 tons per hour;
(5) Two (2) screen output conveyors with maximum capacity of 550 tons per hour, each;
(6) One (1) standby stacker/conveyor with maximum capacity of 1,000 tons per hour;
(7) One (1) magnet with maximum capacity of 300 tons per hour;
(8) One (1) stacker/conveyor with maximum capacity of 1,000 tons per hour;
(9) One (1) crusher with maximum capacity of 500 tons per hour;
(10) One (1) crusher feed conveyor with maximum capacity of 500 tons per hour; and
(11) One (1) crusher output conveyor with maximum capacity of 500 tons per hour.

(i) Four (4) portable diesel generator/engines, approved in 2012 for installation, each with a capacity of 559 Hp or less.
(j) One (1) portable diesel generator/engine, approved in 2012 for installation, with a capacity between 600 Hp and 1500 Hp.
(k) Three (3) portable diesel generator/engines, approved in 2012 for installation, each with a capacity of 100 Hp or less.
(l) Two (2) portable non-road diesel engine generators, approved in 2019 for installation, each with a capacity of 500 HP or less.

Note: Non-road engines are not considered in the emission calculations.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [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(21):

(a) Degreasing operations that do not exceed 145 gallons per 12 month, except if subject to 326 IAC 20-6. [326 IAC 8-3-2][326 IAC 8-3-8]

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(c) Activities with emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)]:

(1) One (1) 12,000 gallon diesel AST identified as EE001-9012, approved in 2019 for construction [326 IAC 8-9];
(2) Iron breakup processing identified as EE001-9014.

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(22);
(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).
SECTION B  GENERAL CONDITIONS

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

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

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

(a) This permit, T127-36307-00026, 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.
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(35), 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(35).

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
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, 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
(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(35).

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) If required by specific condition(s) in Section D of this permit 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
100 North Senate Avenue
MC 61-53 IGCN 1003
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(35).

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. 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(35).

(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 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
   100 North Senate Avenue
   MC 61-53 IGCN 1003
   Indianapolis, Indiana 46204-2251

   within two (2) working days of the time when emission limitations were exceeded due to the emergency.
The notice fulfills the requirement of 326 IAC 2-7-5(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.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.

(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 T127-36307-00026 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 permit, all previous registrations and permits are superseded by this 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(35).

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]

(c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.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(21) and 326 IAC 2-7-1(42). 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(35).

Request for renewal shall be submitted to:

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

(b) A timely renewal application is one that is:
(1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

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

(c) If the Permittee submits a timely and complete application for renewal of this permit, the source’s failure to have a permit is not a violation of 326 IAC 2-7 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
100 North Senate Avenue
MC 61-53 IGCN 1003
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(35).

(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
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

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

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

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(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(37)) 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(35).
(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;

(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
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(35).

(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 317-233-4230 (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.
SECTION C  SOURCE OPERATION CONDITIONS

Entire Source

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

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

Pursuant to 326 IAC 6-3-2(e)(2), particulate emissions from any process not exempt under 326 IAC 6-3-1(b) or (c) which has a maximum process weight rate less than 100 pounds per hour and the methods in 326 IAC 6-3-2(b) through (d) do not apply shall not exceed 0.551 pounds per hour.

C.2  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 forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

C.4  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.5  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.6  Fugitive Particulate Matter Emission Limitations [326 IAC 6-5]

Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the attached plan as in Attachment A. The provisions of 326 IAC 6-5 are not federally enforceable.

C.7  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 by using ambient air quality modeling pursuant to 326 IAC 1-7-4. 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.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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<td><strong>(a)</strong></td>
<td>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.</td>
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<td><strong>(b)</strong></td>
<td>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:</td>
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<td>(1)</td>
<td>When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or</td>
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<td>(2)</td>
<td>If there is a change in the following:</td>
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<td>(A)</td>
<td>Asbestos removal or demolition start date;</td>
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<td>(B)</td>
<td>Removal or demolition contractor; or</td>
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<td>(C)</td>
<td>Waste disposal site.</td>
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<td><strong>(c)</strong></td>
<td>The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).</td>
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<td><strong>(d)</strong></td>
<td>The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).</td>
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All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(35).

**Procedure 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.9 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
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require 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) 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(35).

(c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements  [326 IAC 2-1.1-11]

C.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)]

(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
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

The notification which shall be submitted by the Permittee does require 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.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale. 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.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee shall 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.14 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.

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

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation 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.

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

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall 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(35).
Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

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

(a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 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(33) (“Regulated pollutant, which is used only for purposes of Section 19 of this rule”) from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
MC 61-50 IGCN 1003
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(35).

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

(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.
(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(oo) and/or 326 IAC 2-3-1(jj)) 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(oo) and/or 326 IAC 2-3-1(jj)) 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(oo) and/or 326 IAC 2-3-1(jj)) 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.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]
[326 IAC 2-2][326 IAC 2-3]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions
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(35). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

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

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

(d) 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.

Reports required in this part shall be submitted to:

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

(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.

Stratospheric Ozone Protection

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

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

**Emissions Unit Description:** Burns Harbor Site

(a) An open air Slag Pot Dumping operation constructed in 1969 which receives slag pots by pot carrier from the BOF, identified as EU001-01, with collective fugitive emissions EP001-9011.

(b) An open air Slag Pot Preparation operation constructed in 1969, identified as EU001-04, consisting of relining and conditioning of empty pots, with pot material additive, with collective fugitive emissions EP001-9001.

(c) Stock piles and product storage piles located at Port of Indiana storage yard, Portage.

(d) Main Plant, with a maximum material throughput capacity of 1,500 tons per hour (tph), approved in 2012 for construction, using wet suppressant for fugitive emissions control, consisting of the following equipment:

(A) One (1) step deck feeder (F1), with a capacity of 1500 tph

(B) Crushing

(1) One (1) pan feeder (F2), with a capacity of 500 tons per hour
(2) One (1) conveyor (C5), with a capacity of 500 tph
(3) One (1) mag/pendulum head pulley (C5)
(4) One (1) dual finger gate splitter at C5
(5) One (1) dual finger gate splitter at Crusher/Impactor
(6) One (1) pan feeder (F3), with a capacity of 510 tph
(7) One (1) pan feeder (F4), with a capacity of 500 tph
(8) One (1) jaw crusher, with a capacity of 500 tph
(9) One (1) impactor, with a capacity of 500 tph
(10) One (1) conveyor (C6A), with a capacity of 500 tph
(11) One (1) conveyor (C6B), with a capacity of 500 tph

(C) Screening

(1) One (1) conveyor (C1), with a capacity of 1500 tph
(2) One (1) 150-ton bin, with a capacity of 1500 tph
(3) One (1) feeder (MF400) (F5), with a capacity of 1500 tph
(4) One (1) conveyor (C2), with a capacity of 1500 tph
(5) One (1) mag head pulley (C2)
(6) One (1) dual finger gate splitter at C2
(7) One (1) dual finger gate splitter at F6/F7
(8) One (1) feeder (F6), with a capacity of 750 tph
(9) One (1) feeder (F7), with a capacity of 750 tph
(10) One (1) conveyor (C3A), with a capacity of 750 tph
(11) One (1) conveyor (C3B), with a capacity of 750 tph
(12) One (1) triple chute gate splitter at S1/S2/S3
(13) One (1) screen (S1), with a capacity of 750 tph
(14) One (1) dual finger gate splitter at S1
(15) One (1) conveyor (C7A), with a capacity of 500 tph
(16) One (1) screen (S2), with a capacity of 750 tph
(17) One (1) dual finger gate splitter at S2
(18) One (1) conveyor (C7B), with a capacity of 500 tph
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>One (1) screen (S3), with a capacity of 750 tph</td>
</tr>
<tr>
<td>20</td>
<td>One (1) dual finger gate splitter at S3</td>
</tr>
<tr>
<td>21</td>
<td>One (1) conveyor (C7C), with a capacity of 500 tph</td>
</tr>
<tr>
<td>22</td>
<td>One (1) conveyor (C11A), with a capacity of 1000 tph</td>
</tr>
<tr>
<td>23</td>
<td>One (1) stack conveyor (C15), with a capacity of 1000 tph</td>
</tr>
<tr>
<td>24</td>
<td>One (1) conveyor (C9), with a capacity of 700 tph</td>
</tr>
<tr>
<td>25</td>
<td>One (1) stack conveyor (C14), with a capacity of 700 tph</td>
</tr>
<tr>
<td>26</td>
<td>One (1) conveyor (C8), with a capacity of 400 tph</td>
</tr>
<tr>
<td>27</td>
<td>One (1) stack conveyor (C13), with a capacity of 178.2 tph</td>
</tr>
<tr>
<td>28</td>
<td>One (1) mag head pulley (C13), with a capacity of 400 tph</td>
</tr>
<tr>
<td>29</td>
<td>One (1) dual finger gate splitter at C13</td>
</tr>
<tr>
<td></td>
<td><strong>Scrap Processing</strong></td>
</tr>
<tr>
<td>(1)</td>
<td>One (1) 50-ton scrap bin (F1), with a capacity of 700 tph</td>
</tr>
<tr>
<td>(2)</td>
<td>One (1) feeder (F8), with a capacity of 700 tph</td>
</tr>
<tr>
<td>(3)</td>
<td>One (1) conveyor (C4), with a capacity of 700 tph</td>
</tr>
<tr>
<td>(4)</td>
<td>One (1) dual finger gate splitter at C4</td>
</tr>
<tr>
<td>(5)</td>
<td>One (1) screen (S4), with a capacity of 350 tph</td>
</tr>
<tr>
<td>(6)</td>
<td>One (1) dual finger gate splitter at S4</td>
</tr>
<tr>
<td>(7)</td>
<td>One (1) conveyor (C10A), with a capacity of 200 tph</td>
</tr>
<tr>
<td>(8)</td>
<td>One (1) screen (S5), with a capacity of 350 tph</td>
</tr>
<tr>
<td>(9)</td>
<td>One (1) dual finger gate splitter at S5</td>
</tr>
<tr>
<td>10</td>
<td>One (1) conveyor (C10B), with a capacity of 200 tph</td>
</tr>
<tr>
<td>11</td>
<td>One (1) conveyor (C11B), with a capacity of 400 tph</td>
</tr>
<tr>
<td>12</td>
<td>One (1) stack conveyor (C17), with a capacity of 400 tph</td>
</tr>
<tr>
<td>13</td>
<td>One (1) conveyor (C12), with a capacity of 400 tph</td>
</tr>
<tr>
<td>14</td>
<td>One (1) stack conveyor (C16), with a capacity of 400 tph</td>
</tr>
<tr>
<td>15</td>
<td>One (1) conveyor (C18), with a capacity of 200 tph</td>
</tr>
<tr>
<td>16</td>
<td>One (1) stack conveyor (C19), with a capacity of 200 tph</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(D)</td>
<td>Chip Plant, with a maximum material throughput capacity of 500 tons per hour (tph), approved in 2012 for construction (unless noted otherwise), using wet suppressant for fugitive emissions control, consisting of the following equipment:</td>
</tr>
<tr>
<td>1</td>
<td>One (1) feed hopper (B1), with a capacity of 500 tph</td>
</tr>
<tr>
<td>2</td>
<td>One (1) feeder (F9), with a capacity of 500 tph</td>
</tr>
<tr>
<td>3</td>
<td>One (1) conveyor (C1), with a capacity of 500 tph</td>
</tr>
<tr>
<td>4</td>
<td>One (1) conveyor (C2), with a capacity of 800 tph</td>
</tr>
<tr>
<td>5</td>
<td>One (1) crusher, with a capacity of 500 tph</td>
</tr>
<tr>
<td>6</td>
<td>One (1) conveyor (C5), with a capacity of 500 tph</td>
</tr>
<tr>
<td>7</td>
<td>One (1) screen (S1), with a capacity of 400 tph</td>
</tr>
<tr>
<td>8</td>
<td>One (1) conveyor (C3), with a capacity of 150 tph</td>
</tr>
<tr>
<td>9</td>
<td>One (1) screen (S2), with a capacity of 400 tph</td>
</tr>
<tr>
<td>10</td>
<td>One (1) conveyor (C4), with a capacity of 150 tph</td>
</tr>
<tr>
<td>11</td>
<td>One (1) conveyor (C10), with a capacity of 300 tph</td>
</tr>
<tr>
<td>12</td>
<td>One (1) stack conveyor (C11), with a capacity of 55 tph</td>
</tr>
<tr>
<td>13</td>
<td>One (1) conveyor (C8), with a capacity of 250 tph</td>
</tr>
<tr>
<td>14</td>
<td>One (1) mag cross belt (M2)</td>
</tr>
<tr>
<td>15</td>
<td>One (1) stack conveyor (C9), with a capacity of 78.375 tph</td>
</tr>
<tr>
<td>16</td>
<td>One (1) conveyor (C6), with a capacity of 250 tph</td>
</tr>
<tr>
<td>17</td>
<td>One (1) mag cross belt (M1)</td>
</tr>
<tr>
<td>18</td>
<td>One (1) stack conveyor (C7), with a capacity of 250 tph</td>
</tr>
<tr>
<td>Number</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>19</td>
<td>One (1) conveyor (C12), approved in 2013 for construction, with a capacity of 300 tph</td>
</tr>
<tr>
<td>20</td>
<td>One (1) conveyor (C13), approved in 2013 for construction, with a capacity of 300 tph</td>
</tr>
<tr>
<td>21</td>
<td>One (1) crusher (crusher 2), approved in 2013 for construction, with a capacity of 400 tph</td>
</tr>
<tr>
<td>22</td>
<td>One (1) screen (S3), approved in 2013 for construction, with a maximum capacity of 75 tph.</td>
</tr>
<tr>
<td>23</td>
<td>One (1) conveyor (C14), approved in 2013 for construction, with a maximum capacity of 50 tph.</td>
</tr>
<tr>
<td>24</td>
<td>One (1) conveyor (C15), approved in 2013 for construction, with a maximum capacity of 50 tph.</td>
</tr>
<tr>
<td>25</td>
<td>One (1) portable wet screening plant, approved in 2014 for construction, with a maximum capacity of 450 tons per hour, including the following:</td>
</tr>
</tbody>
</table>

(A) One (1) feeding chute, identified as Feed Chute, with a maximum throughput capacity of 450 tons per hour;  
(B) One (1) screen, identified as Wet Screen, with a maximum throughput capacity of 450 tons per hour;  
(C) Three (3) output chutes, identified as Output Chutes 1, 2, and 3, each with a maximum throughput capacity of 135 tons per hour;  
(D) One (1) oversize chute, identified as Oversize Chute, with a maximum throughput capacity of 45 tons per hour.  

| 26     | One (1) dump plant, approved in 2015 for construction, identified as Dump Plant, with a maximum capacity of 500 tons per hour, using wet suppression for fugitive emissions control, consisting of the following equipment: |

(A) One (1) grizzly feeder, with a capacity of 500 tph  
(B) One (1) feed conveyor, with a capacity of 500 tph  
(C) Two (2) splitter drops, each with a capacity of 500 tph  
(D) One (1) scrap stacker/conveyor, with a capacity of 150 tph  
(E) One (1) main conveyor, with a capacity of 500 tph  
(F) One (1) magnet, with a capacity of 15 tph  
(G) Two (2) crusher conveyors, each with a capacity of 300 tph  
(H) One (1) crusher/impactor, with a capacity of 300 tph  
(I) One (1) crusher output conveyor, with a capacity of 300 tph  
(J) One (1) screen and five (5) screen conveyors, each with a capacity of 400 tph  
(K) One (1) snub conveyor, with a capacity of 400 tph  
(L) One (1) output stacker/conveyor, with a capacity of 400 tph  

(f) Portable/Auxiliary Equipment, with a maximum material throughput capacity of 600 tons per hour (tph), approved in 2012 for construction, using wet suppressant for fugitive emissions control, consisting of the following equipment: |

(A) Portable Plant 1  
(1) One (1) conveyor, with a capacity of 600 tph  
(2) One (1) portable crusher, with a capacity of 600 tph  
(3) One (1) conveyor, with a capacity of 600 tph
(4) One (1) portable screen, with a capacity of 600 tph  
(5) Three (3) portable input conveyors (33%), with a capacity of 600 tph  
(6) Three (3) portable output stacker/conveyors (33% ea), with a capacity of 600 tph  

(B) Portable boat loader  
(1) One (1) feed hopper, with a capacity of 1500 tph  
(2) One (1) conveyor/stacker, with a capacity of 1500 tph  

(C) Portable stacker  
(1) One (1) feed hopper, with a capacity of 250 tph  
(2) One (1) conveyor/stacker, with a capacity of 250 tph  

(D) Portable screener  
(1) One (1) screen, with a capacity of 250 tph  
(2) Three (3) conveyor/stackers (33% each), with a capacity of 250 tph  

(E) Portable screener  
(1) One (1) feed hopper, with a capacity of 250 tph  
(2) One (1) screen, with a capacity of 250 tph  
(3) One (1) conveyor/stacker, with a capacity of 250 tph  

(F) Portable Plant 2  
(1) One (1) grizzly, with a capacity of 500 tph  
(2) One (1) feeder, with a capacity of 500 tph  
(3) One (1) screen, with a capacity of 500 tph  
(4) Four (4) output conveyors (25% ea), with a capacity of 500 tph  
(5) One (1) crusher or impactor, with a capacity of 500 tph  
(6) One (1) magnet  

(g) One (1) portable upgrade plant, approved in 2015 for construction, identified as Portable Upgrade Plant, with a maximum capacity of 500 tons per hour, using wet suppression for fugitive emissions control, consisting of the following equipment:  

1. One (1) grizzly, with a capacity of 500 tph  
2. One (1) feeder/conveyor combo unit, with a capacity of 500 tph  
3. One (1) screen and one (1) screen conveyor, each with a capacity of 500 tph  
4. Two (2) output conveyors, each with a capacity of 250 tph  
5. Two (2) stacker/conveyors, each with a capacity of 250 tph  
6. Two (2) magnets, each with a capacity of 15 tph  

(h) One (1) portable plant for miscellaneous crushing, screening and boat/barge loading, identified as Portable Miscellaneous Plant, approved in 2019 for construction, with a maximum capacity of 1,000 tons per hour, powered by non-road engines, using wet suppression for fugitive emissions control, consisting of the following equipment:  

1. One (1) Feeder with maximum capacity of 1,000 tons per hour;  
2. One (1) feed conveyor with maximum capacity of 1,000 tons per hour;  
3. One (1) screen with maximum capacity of 550 tons per hour;  
4. One (1) screen under conveyor with maximum capacity of 550 tons per hour;  
5. Two (2) screen output conveyors with maximum capacity of 550 tons per hour, each;  
6. One (1) standby stacker/conveyor with maximum capacity of 1,000 tons per hour;
(7) One (1) magnet with maximum capacity of 300 tons per hour;

(8) One (1) stacker/conveyor with maximum capacity of 1,000 tons per hour;

(9) One (1) crusher with maximum capacity of 500 tons per hour;

(10) One (1) crusher feed conveyor with maximum capacity of 500 tons per hour; and

(11) One (1) crusher output conveyor with maximum capacity of 500 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.1.1 Prevention of Significant Deterioration (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 limits:

(a) Only slag and metallic material shall be processed at Main Plant.

(b) The total input of slag and metallic material at Main Plant shall not exceed 2,377,419 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(c) The Portable/Auxiliary Equipment shall not be operated at Metal Services LLC dba Phoenix Services LLC site.

Compliance with the above limits, in conjunction with Condition D.2.1, shall limit the PM, PM10 and PM2.5 emissions from the 2012 modification to less than 25, 15 and 10 tons per year, respectively, and render the requirements of 326 IAC 2-2 not applicable to the 2012 modification.

Compliance with the above limits shall limit the PM, PM10 and PM2.5 emissions from the 2013 modification in conjunction with the emissions from equipment processed in the 2012 modification to less than 25, 15 and 10 tons per year, respectively, and render the requirements of 326 IAC 2-2 not applicable to the associated emission units.

D.1.2 Prevention of Significant Deterioration (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 limits:

(a) The total input of material at the Chip Plant and portable wet screening unit permitted in 2014 shall not exceed 1,300,000 tons per twelve (12) consecutive month period each, with compliance determined at the end of each month.

(b) The Wet Screening Unit (permitted in 2014) shall be used at the Chip Plant and process only those materials that have been previously processed at the Chip Plant.

Compliance with the above limit shall limit the PM, PM10 and PM2.5 emissions from the 2014 modification in conjunction with the emissions from equipment processed under the 2012 modification and the 2013 modification to less than 25, 15 and 10 tons per year, respectively, and render the requirements of 326 IAC 2-2 not applicable to the associated emission units.

D.1.3 Prevention of Significant Deterioration (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 limits:
(a) The Chip Plant shall process only those materials that have been previously processed at the Main Plant and/or material processed at the Dump Plant permitted in 2015.

(b) The total input of material at each of the Portable/Auxiliary Equipment units, including the Portable Upgrade Plant (excluding the portable wet screening unit permitted in 2014) shall not exceed 800,000 tons per twelve consecutive month period with compliance determined at the end of each month.

(c) The moisture content of slag material processed at the Main Plant, Chip Plant, dump plant (permitted in 2015), portable upgrade plant (permitted in 2015) and Portable/Auxiliary Equipment, including the portable wet screening unit permitted in 2014, shall not be less than 1.5%.

Compliance with the above limits shall limit the PM, PM10 and PM2.5 emissions from the 2015 modification to less than 25, 15 and 10 tons per year, respectively, and render the requirements of 326 IAC 2-2 not applicable to the 2015 modification.

D.1.4 Prevention of Significant Deterioration (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 limits:

(a) The total input of material at each of the Portable Miscellaneous Plant units, shall not exceed 700,000 tons per twelve consecutive month period with compliance determined at the end of each month.

(b) The moisture content of slag material processed at the Portable Miscellaneous Plant, shall not be less than 1.5%.

(c) The particulate emissions from the Portable Miscellaneous Plant shall not exceed the following:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit (lb/ton of material processed) Crusher</th>
<th>Emission Limit (lb/ton of material processed) Screen</th>
<th>Emission Limit (lb/ton of material processed) Feeder/Conveyor/Magnet</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.0012</td>
<td>0.0021</td>
<td>0.00014</td>
</tr>
<tr>
<td>PM10</td>
<td>0.00054</td>
<td>0.00074</td>
<td>0.00005</td>
</tr>
<tr>
<td>PM2.5</td>
<td>0.00054</td>
<td>0.00074</td>
<td>0.00005</td>
</tr>
</tbody>
</table>

Compliance with the above limits shall limit the PM, PM10 and PM2.5 emissions from the Portable Miscellaneous Plant to less than 25, 15 and 10 tons per year, respectively, and render the requirements of 326 IAC 2-2 not applicable to the 2019 modification.

D.1.5 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emissions from each of the following listed units shall not exceed the pound per hour limit listed below:

(a) | Emission Unit                  | Process weight rate (tons/hr) | 326 IAC 6-3 limit lb/hr |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Plant</td>
<td>One (1) step deck feeder (F1)</td>
<td>1500</td>
<td>82.95</td>
</tr>
<tr>
<td>Crushing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Unit</td>
<td>Process weight rate (tons/hr)</td>
<td>326 IAC 6-3 limit lb/hr</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>------------------------------</td>
<td>--------------------------</td>
<td></td>
</tr>
<tr>
<td>One (1) pan feeder (F2)</td>
<td>500</td>
<td>68.96</td>
<td></td>
</tr>
<tr>
<td>One (1) conveyor (C5)</td>
<td>500</td>
<td>68.96</td>
<td></td>
</tr>
<tr>
<td>One (1) mag/pendulum head pulley (C5)</td>
<td>184</td>
<td>57.61</td>
<td></td>
</tr>
<tr>
<td>One (1) dual finger gate splitter at C5</td>
<td>217</td>
<td>59.40</td>
<td></td>
</tr>
<tr>
<td>One (1) splitter (scrap) (C5)</td>
<td>184</td>
<td>57.61</td>
<td></td>
</tr>
<tr>
<td>One (1) dual finger gate splitter at C5</td>
<td>217</td>
<td>59.40</td>
<td></td>
</tr>
<tr>
<td>One (1) dual finger gate splitter at Crusher/Impactor</td>
<td>184</td>
<td>57.61</td>
<td></td>
</tr>
<tr>
<td>One (1) pan feeder (F3)</td>
<td>510</td>
<td>69.19</td>
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<tr>
<td>One (1) pan feeder (F4)</td>
<td>500</td>
<td>68.96</td>
<td></td>
</tr>
<tr>
<td>One (1) jaw crusher</td>
<td>500</td>
<td>68.96</td>
<td></td>
</tr>
<tr>
<td>One (1) impactor,</td>
<td>500</td>
<td>68.96</td>
<td></td>
</tr>
<tr>
<td>One (1) conveyor (C6A)</td>
<td>500</td>
<td>68.96</td>
<td></td>
</tr>
<tr>
<td>One (1) conveyor (C6B)</td>
<td>500</td>
<td>68.96</td>
<td></td>
</tr>
<tr>
<td><strong>Screening</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One (1) conveyor (C1)</td>
<td>1500</td>
<td>82.95</td>
<td></td>
</tr>
<tr>
<td>One (1) 150-ton bin,</td>
<td>1500</td>
<td>82.95</td>
<td></td>
</tr>
<tr>
<td>One (1) feeder (MF400) (F5)</td>
<td>1500</td>
<td>82.95</td>
<td></td>
</tr>
<tr>
<td>One (1) conveyor (C2)</td>
<td>1500</td>
<td>82.95</td>
<td></td>
</tr>
<tr>
<td>One (1) mag head pulley (C2)</td>
<td>300</td>
<td>63.00</td>
<td></td>
</tr>
<tr>
<td>One (1) dual finger gate splitter at C2</td>
<td>271</td>
<td>61.86</td>
<td></td>
</tr>
<tr>
<td>One (1) dual finger gate splitter at F6/F7</td>
<td>217</td>
<td>59.40</td>
<td></td>
</tr>
<tr>
<td>One (1) feeder (F6)</td>
<td>750</td>
<td>73.93</td>
<td></td>
</tr>
<tr>
<td>One (1) feeder (F7)</td>
<td>750</td>
<td>73.93</td>
<td></td>
</tr>
<tr>
<td>One (1) conveyor (C3A)</td>
<td>750</td>
<td>73.93</td>
<td></td>
</tr>
<tr>
<td>One (1) conveyor (C3B)</td>
<td>750</td>
<td>73.93</td>
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### Emission Unit Table

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<th>326 IAC 6-3 limit lb/hr</th>
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<td>Two (2) stacker/conveyors (each)</td>
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<td>One (1) crusher output conveyor</td>
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<td>68.96</td>
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</table>

The pound per hour emission limitations listed above were calculated using the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

\[ E = 4.10 \ P^{0.67} \]

where \( E \) = rate of emission in pounds per hour and \( P \) = process weight rate in tons per hour

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

\[ E = 55.0 \ P^{0.11} - 40 \]

where \( E \) = rate of emission in pounds per hour; and \( P \) = process weight rate in tons per hour.

(b) When the process weight rate exceeds two hundred (200) tons per hour, the allowable emission may exceed the 326 IAC 6-3 emission limit derived by the equation above, provided that the concentration of particulate matter in the discharge gases to the atmosphere is less than 0.10 pounds per one thousand (1,000) pounds of gases.

### D.1.6 Preventative Maintenance Plan [326 IAC 2-7-5(12)]

A Preventative Maintenance Plan is required for these facilities. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventative maintenance plan required by this condition.
Compliance Determination Requirements [326 IAC 2-7-5(1)]

D.1.7 Particulate Control [326 IAC 2-7-6(6)] [326 IAC 2 7 5(1)]

In order to comply with Conditions D.1.2(b) and D.1.3(c):

(a) The Permittee shall use wet suppression to control particulate emissions from Main Plant, Chip Plant, Portable/Auxiliary Equipment, and the Portable Miscellaneous Plant except for the following time periods:

(i) During precipitation

(ii) When ambient air temperature is at or below freezing temperature

(b) The Permittee shall perform weekly moisture content analysis prior to feeding material to the Chip Plant, on the slag material processed at the Main Plant, Chip Plant, Portable Upgrade Plant, Portable/Auxiliary Equipment and the Portable Miscellaneous Plant to ensure slag moisture content is not less than 1.5%.

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

D.1.8 Visible Emission Notations [326 IAC 2-7-5(1)][326 IAC 2-7-6(1)]

(a) Visible emission notations of all process emission points shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) If abnormal emissions are observed, the Permittee shall take reasonable response. Section C - Response to Excursions or 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.1.9 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

(a) To document the compliance status with Condition D.1.1(b), D.1.2(a), D.1.3(b), and D.1.4(a), the Permittee shall maintain monthly records of the input of material at Main Plant, Chip Plant and Portable/Auxiliary Equipment.

(b) To document the compliance status with condition D.1.3(c), and D.1.4(b), the Permittee shall maintain weekly records of the moisture content analysis.

(c) To document the compliance status with condition D.1.8 - Visible Emission Notation, the Permittee shall maintain a daily record of visible emission notations of the process emission points. 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 obligation with regard to the records required by this condition.

D.1.10 Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

A quarterly summary of the information required to document the compliance status with Conditions D.1.1(b), D.1.2(a), D.1.3(b), and D.1.4(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. Section C - General Reporting Requirements 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(35).
SECTION D.2  EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Insignificant Activities

(a) Degreasing operations that do not exceed 145 gallons per 12 month, except if subject to 326 IAC 20-6. [326 IAC 8-3-2][326 IAC 8-3-8]

(b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-3-2]

(c) Activities with emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)];

(1) One (1) 12,000 gallon diesel AST identified as EE001-9012, approved in 2019 for construction [326 IAC 8-9]; and

(2) Iron breakup processing identified as EE001-9014.

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

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

D.2.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions from the brazing equipment, cutting torches, soldering equipment, and welding equipment shall not exceed 0.551 pounds per hour.

D.2.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9-1(b), stationary vessels with a capacity of less than thirty-nine thousand (39,000) gallons (EE001-9012) are subject to the reporting and record keeping provisions of section 6(a) and 6(b) of this rule and are exempt from all other provisions of this rule.

D.2.3 Volatile Organic Compounds (VOC) [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 (a)(3), (a)(4), (a)(6), and (a)(7) of this condition.

(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) Ensure the following additional control equipment and operating requirements are met:

(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.

   (D) Carbon adsorption.

   (E) An alternative system of demonstrated equivalent or better control as those outlined in (b)(1)(A) through (D) of this condition that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.

(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:

   (A) must be a solid, fluid stream; and

   (B) shall be applied at a pressure that does not cause excessive splashing.

D.2.4 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

Pursuant to 326 IAC 8-3-8 (Material Requirements for Cold Cleaner Degreasers), before January 1, 2015, the Permittee shall not operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) milliliter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

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

D.2.5 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

(a) To document the compliance status with Condition D.2.2, and pursuant to 326 IAC 8-9, the Permittee must keep records of the following:

   (1) The vessel identification number;

   (2) The vessel dimensions; and

   (3) The vessel capacity.

Records shall be maintained for the life of the vessel.
(b) To document the compliance status with Condition D.2.4, 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 two 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).

(b) Section C - General Record Keeping Requirements contains the Permittee's obligation with regard to the records required by this condition.
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Metal Services LLC dba Phoenix Services LLC
Source Address: 250 U.S. Highway 12, Burns Harbor, Indiana 46304
Part 70 Permit No.: T127-36307-00026

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

- The Permittee must notify the Office of Air Quality (OAQ), within four (4) 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

<table>
<thead>
<tr>
<th>Facility/Equipment/Operation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Equipment:</td>
</tr>
<tr>
<td>Permit Condition or Operation Limitation in Permit:</td>
</tr>
<tr>
<td>Description of the Emergency:</td>
</tr>
<tr>
<td>Describe the cause of the Emergency:</td>
</tr>
</tbody>
</table>
If any of the following are not applicable, mark N/A

<table>
<thead>
<tr>
<th>Date/Time Emergency started:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date/Time Emergency was corrected:</td>
</tr>
<tr>
<td>Was the facility being properly operated at the time of the emergency?</td>
</tr>
<tr>
<td>Type of Pollutants Emitted: TSP, PM-10, SO₂, VOC, NOₓ, CO, Pb, other:</td>
</tr>
<tr>
<td>Estimated amount of pollutant(s) emitted during emergency:</td>
</tr>
<tr>
<td>Describe the steps taken to mitigate the problem:</td>
</tr>
<tr>
<td>Describe the corrective actions/response steps taken:</td>
</tr>
<tr>
<td>Describe the measures taken to minimize emissions:</td>
</tr>
<tr>
<td>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:</td>
</tr>
</tbody>
</table>

Form Completed by: _____________________________
Title / Position: ______________________________
Date: ______________________________
Phone: ______________________________
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Metal Service LLC dba Phoenix Services LLC
Source Address: 250 U.S. Highway 12, Burns Harbor, Indiana 46304
Part 70 Permit No.: T127-36307-00026
Facility: Main Plant
Parameter: Total input slag and metallic material at the Main Plant
Limit: Less than 2,377,419 tons per twelve (12) consecutive month period with compliance determined at the end of each month

<table>
<thead>
<tr>
<th>QUARTER</th>
<th>YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Month</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 1 + Column 2</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>Previous 11 Months</td>
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<td></td>
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</tr>
<tr>
<td>12 Month Total</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
   Deviation has been reported on:

Submitted by: ________________________________
Title / Position: ________________________________
Signature: ________________________________
Date: ________________________________
Phone: ________________________________
Part 70 Quarterly Report

Source Name: Metal Service LLC dba Phoenix Services LLC
Source Address: 250 U.S. Highway 12, Burns Harbor, Indiana 46304
Part 70 Permit No.: T127-36307-00026
Facility: Portable/Auxiliary Equipment
Parameter: The total input of material at the Portable/Auxiliary Equipment
Limit: Less than 800,000 tons per twelve consecutive month period with compliance at the end of each month.

QUARTER: ___________________ YEAR: ___________________

<table>
<thead>
<tr>
<th>Month</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 1 + Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This Month</td>
<td>Previous 11 Months</td>
<td>12 Month Total</td>
</tr>
</tbody>
</table>

☐ No deviation occurred in this quarter.

☐ Deviation/s occurred in this quarter.
  Deviation has been reported on:

Submitted by: ____________________________________________
Title / Position: ____________________________________________
Signature: _________________________________________________
Date: ____________________________
Phone: ____________________________
## Part 70 Quarterly Report

| QUARTER | YEAR | Source Name: Metal Service LLC dba Phoenix Services LLC | Source Address: 250 U.S. Highway 12, Burns Harbor, Indiana 46304 | Part 70 Permit No.: T127-36307-00026 | Facility: Chip Plant | Parameter: Total input of slag and metallic material at the Chip Plant | Limit: Less than 1,300,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month. |

<table>
<thead>
<tr>
<th>Month</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 1 + Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>This Month</td>
<td>Previous 11 Months</td>
<td>12 Month Total</td>
<td></td>
</tr>
</tbody>
</table>

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

Submitted by: ________________________________
Title / Position: ________________________________
Signature: ________________________________
Date: ________________________________
Phone: ________________________________
## Part 70 Quarterly Report

Source Name: Metal Service LLC dba Phoenix Services LLC  
Source Address: 250 U.S. Highway 12, Burns Harbor, Indiana 46304  
Part 70 Permit No.: T127-36307-00026  
Facility: Portable Miscellaneous Plant  
Parameter: Total input of material at the Portable Miscellaneous Plant  
Limit: Less than 700,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

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<th>QUARTER</th>
<th>YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month</td>
<td>Column 1</td>
</tr>
<tr>
<td></td>
<td>This Month</td>
</tr>
</tbody>
</table>

☐ No deviation occurred in this quarter.  

☐ Deviation/s occurred in this quarter.  
  Deviation has been reported on:

Submitted by: ________________________________  
Title / Position: ________________________________  
Signature: ________________________________  
Date: ________________________________  
Phone: ________________________________
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: Metal Service LLC dba Phoenix Services LLC
Source Address: 250 U.S. Highway 12, Burns Harbor, Indiana 46304
Part 70 Permit No.: T127-36307-00026

Months: to Year: 

This report shall be submitted quarterly based on a calendar year. Proper notice submittal under Section B –Emergency Provisions 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".

<table>
<thead>
<tr>
<th>Permit Requirement</th>
<th>Date of Deviation</th>
<th>Duration of Deviation</th>
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<tbody>
<tr>
<td>Number of Deviations:</td>
<td></td>
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<tr>
<td>Probable Cause of Deviation:</td>
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<tr>
<td>Response Steps Taken:</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Permit Requirement</th>
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<tr>
<td>Response Steps Taken:</td>
<td></td>
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<td>Permit Requirement</td>
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<tr>
<td>Phone:</td>
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</tr>
</tbody>
</table>
Source Description and Location

Source Name: Metal Services, LLC dba Phoenix Services, LLC, a contractor of ArcelorMittal Burns Harbor, LLC  
Source Location: 250 W US Hwy 12, Burns Harbor, Indiana 46304  
County: Porter (Westchester Township)  
SIC Code: 3312 (Steel Works, Blast Furnaces, and Rolling Mills) 3295 (Mineral and Earths, Ground or Otherwise Treated)  
Operation Permit No.: T 127-36307-00026  
Operation Permit Issuance Date: May 31, 2016  
Significant Source Modification No.: 127-41626-00026  
Significant Permit Modification No.: 127-41633-00026  
Permit Reviewer: Wilfredo de la Rosa

Source Definition

This slag finishing operation consists of a source with on-site contractors:

(a) ArcelorMittal Burns Harbor, LLC (127-00001), the primary operation, is located at, 250 U.S. Highway 12, Burns Harbor, Indiana 46304.
(b) Indiana Flame (T127-00098), the on-site contractor, is located at 250 U.S. Highway 12, Burns Harbor, Indiana 46304.
(c) Metal Services LLC dba Phoenix Services LLC (T127-00026), the on-site contractor, is located at 250 U.S. Highway 12, Burns Harbor, Indiana 46304.
(d) Mid-Continent Coal and Coke (T127-00108), the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304.
(e) SMS Mill Services, LLC (T127-00076), the on-site contractor, is located at 250 U.S. Highway 12, Burns Harbor, Indiana 46304.
(f) Beemsterboer Slag Corp (127-00116), the on-site contractor, is located at 250 U.S. Highway 12, Burns Harbor, Indiana 46304.
(g) PSC Metals Inc. (127-00118), the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304.
(h) Oil Technology (T127-00074), the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304.
(i) Fritz Enterprises, Inc. (127-00123), the on-site contractor is located at U.S. Highway 12, Burns Harbor, Indiana 46304.

ArcelorMittal Burns Harbor, LLC and Metal Services LLC dba Phoenix Services LLC are still under the common control of ArcelorMittal Burns Harbor, LLC. These plants are considered one major source, as defined by 326 IAC 2-7-1(22), based on this contractual control. Therefore, the term “source” in the Part
70 documents refers to both ArcelorMittal Burns Harbor, LLC and Metal Services LLC dba Phoenix Services LLC as one major source.

Separate Part 70 Administrative permits will be issued to ArcelorMittal Burns Harbor, LLC (127-00001) and each of its 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. 127-36307-00026 on May 31, 2016. There have been no subsequent approvals issued.

County Attainment Status

The source is located in Porter County.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO\textsubscript{2}</td>
<td>Cannot be classified for the area bounded on the north by Lake Michigan; on the west by the Lake County and Porter County line; on the south by I-80 and I-90; and on the east by the LaPorte County and Porter County line. The remainder of Porter County is better than national standards.</td>
</tr>
<tr>
<td>CO</td>
<td>Unclassifiable or attainment effective November 15, 1990.</td>
</tr>
<tr>
<td>O\textsubscript{3}</td>
<td>Moderate nonattainment effective June 3, 2016, for the 2008 8-hour ozone standard.\textsuperscript{1}</td>
</tr>
<tr>
<td>O\textsubscript{3}</td>
<td>Unclassifiable or attainment effective August 3, 2018, for the 2015 8-hour ozone standard.\textsuperscript{1}</td>
</tr>
<tr>
<td>PM\textsubscript{2.5}</td>
<td>Unclassifiable effective April 15, 2015, for the 2012 annual PM\textsubscript{2.5} standard.</td>
</tr>
<tr>
<td>PM\textsubscript{2.5}</td>
<td>Unclassifiable or attainment effective December 13, 2009, for the 2006 24-hour PM\textsubscript{2.5} standard.</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>Unclassifiable effective November 15, 1990.</td>
</tr>
<tr>
<td>NO\textsubscript{2}</td>
<td>Unclassifiable or attainment effective January 29, 2012, for the 2010 NO\textsubscript{2} standard.</td>
</tr>
<tr>
<td>Pb</td>
<td>Unclassifiable or attainment effective December 31, 2011 for the 2008 lead standard.</td>
</tr>
</tbody>
</table>

\textsuperscript{1}Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area, including Porter County, for the 1-hour standard which was revoked effective June 15, 2005. The U. S. EPA has acknowledged in both the proposed and final rulemaking for this redesignation that the anti-backsliding provisions for the 1-hour ozone standard no longer apply as a result of the redesignation under the 8-hour ozone standard. Therefore, permits in Porter County are no longer subject to review pursuant to Emission Offset, 326 IAC 2-3 for the 1-hour standard.

(a) Ozone Standards

U.S. EPA, in the Federal Register Notice 77 FR 34228 dated June 11, 2012, designated Porter County as nonattainment for the 2008 8-hour ozone standard. On August 1, 2012, the air pollution control board issued an emergency rule adopting the U.S. EPA’s designation. This rule became effective August 9, 2012. IDEM does not agree with U.S. EPA’s designation of nonattainment. IDEM filed a suit against U.S. EPA in the U.S. Court of Appeals for the DC Circuit on July 19, 2012. However, in order to assure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA’s designation. Volatile organic compounds (VOC) and Nitrogen Oxides (NO\textsubscript{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\textsubscript{x} emissions are considered when evaluating the rule applicability relating to ozone. Therefore, VOC and NO\textsubscript{x} emissions were evaluated pursuant to the requirements of Emission Offset, 326 IAC 2-3.

(b) PM\textsubscript{2.5}

Porter County has been classified as attainment for PM\textsubscript{2.5}. Therefore, direct PM\textsubscript{2.5}, SO\textsubscript{2}, and NO\textsubscript{x} emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
(c) Other Criteria Pollutants

Porter 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.

<table>
<thead>
<tr>
<th>Fugitive Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Since this source is classified as an integrated iron and steel plant, 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.</td>
</tr>
<tr>
<td>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).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Greenhouse Gas (GHG) Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>On June 23, 2014, in the case of Utility Air Regulatory Group v. EPA, cause no. 12-1146, (available at <a href="http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf">http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf</a>) 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.”</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>
### Source Status - Existing Source

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.

<table>
<thead>
<tr>
<th>Source-Wide Emissions Prior to Modification (ton/year)</th>
<th>PM(^1)</th>
<th>PM(_{10})(^1)</th>
<th>PM(_{2.5})(^1,2)</th>
<th>SO(_2)</th>
<th>NO(_x)</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP(^3)</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total PTE of Entire Source Including Fugitives*</td>
<td>193.77</td>
<td>169.71</td>
<td>165.30</td>
<td>0.00</td>
<td>0.00</td>
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<td>Total PTE of ArcelorMittal</td>
<td>&gt;100</td>
<td>&gt;100</td>
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<tr>
<td>Combined source wide PTE</td>
<td>&gt;100</td>
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<td>&gt;100</td>
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<tr>
<td>Title V Major Source Thresholds</td>
<td>NA</td>
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<td>PSD Major Source Thresholds</td>
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</tr>
<tr>
<td>Emission Offset Major Source Thresholds</td>
<td>---</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>100</td>
<td>NA</td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

1Under 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."

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 source is a major stationary source, under PSD (326 IAC 2-2), because a PSD regulated pollutant(s), PM, PM\(_{10}\), and PM\(_{2.5}\), 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 NO\(_x\), and VOC, precursor to Ozone, a nonattainment regulated pollutant, is emitted at a rate of 100 tons per year or more.

(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 Permit No. 127-36307-00026, issued on May 31, 2016.
**Description of Proposed Modification**

The Office of Air Quality (OAQ) has reviewed an application, submitted by Metal Services, LLC dba Phoenix Services, LLC, a contractor of ArcelorMittal Burns Harbor LLC on July 1, 2019, relating to the addition of a new portable plant operation equipped with two (2) non-road diesel engine generators and the replacement of the 2,500-gallon and the 10,000-gallon diesel tanks with a 12,000-gallon diesel tank.

The following is a list of the new emission units:

(a) One (1) portable plant for miscellaneous crushing, screening and boat/barge loading, identified as Portable Miscellaneous Plant, approved in 2019 for construction, with a maximum capacity of 1,000 tons per hour, powered by non-road engines, using wet suppression for fugitive emissions control, consisting of the following equipment:

1. One (1) Feeder with maximum capacity of 1,000 tons per hour;
2. One (1) feed conveyor with maximum capacity of 1,000 tons per hour;
3. One (1) screen with maximum capacity of 550 tons per hour;
4. One (1) screen under conveyor with maximum capacity of 550 tons per hour;
5. Two (2) screen output conveyors with maximum capacity of 550 tons per hour, each;
6. One (1) standby stacker/conveyor with maximum capacity of 1,000 tons per hour;
7. One (1) magnet with maximum capacity of 300 tons per hour;
8. One (1) stacker/conveyor with maximum capacity of 1,000 tons per hour;
9. One (1) crusher with maximum capacity of 500 tons per hour;
10. One (1) crusher feed conveyor with maximum capacity of 500 tons per hour; and
11. One (1) crusher output conveyor with maximum capacity of 500 tons per hour.

(b) Two (2) portable non-road diesel engine generators, approved in 2019 for installation, each with a capacity of 500 HP or less.

Note: Non-road engines are not considered in the emission calculations.

(c) One (1) 12,000-gallon diesel AST identified as EE001-9012, approved in 2019 for construction [326 IAC 8-9]

Note: This new tank will retain the old designation of the replaced 2,500-gallon tank. There are no emissions from this unit.

As part of this permitting action, the following emission units are being removed from the permit:

(a) 10,000-gallon diesel AST, identified as EE001-9011 [326 IAC8-9].

(b) 2,500 gallon diesel AST, identified as EE001-9012 [326 IAC 8-9]

**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.
Pursuant to 326 IAC 2-1.1-1(12), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. 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.

<table>
<thead>
<tr>
<th>Process / Emission Unit</th>
<th>PM</th>
<th>PM\textsubscript{10}</th>
<th>PM\textsubscript{2.5}</th>
<th>SO\textsubscript{2}</th>
<th>NO\textsubscript{X}</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP\textsuperscript{2}</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable Miscellaneous Plant</td>
<td>163.37</td>
<td>59.70</td>
<td>59.70</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Roadways</td>
<td>7.18</td>
<td>1.91</td>
<td>0.19</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Pile Ops</td>
<td>8.85</td>
<td>4.19</td>
<td>1.32</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total PTE Before Controls of the New Emission Units:</strong></td>
<td><strong>179.41</strong></td>
<td><strong>65.80</strong></td>
<td><strong>61.21</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

\textsuperscript{1}PM\textsubscript{2.5} listed is direct PM\textsubscript{2.5}.

\textsuperscript{2}Single highest HAP.

Appendix A of this TSD reflects the detailed potential emissions of the modification.

(a) Approval to Construct

Pursuant to 326 IAC 2-7-10.5(g)(4), a Significant Source Modification is required because this modification has the potential to emit PM/PM\textsubscript{10}/direct PM\textsubscript{2.5} at greater than or equal to twenty-five (25) tons per year.

(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 and Emission Offset

The table below summarizes the potential to emit of the modification, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of the Part 70 source and 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.

<table>
<thead>
<tr>
<th>Process / Emission Unit</th>
<th>PM</th>
<th>PM$_{10}$</th>
<th>PM$_{2.5}$</th>
<th>SO$_2$</th>
<th>NO$_x$</th>
<th>VOC</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable Miscellaneous Plant</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Crusher</td>
<td>0.42</td>
<td>0.19</td>
<td>0.19</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Screen</td>
<td>0.74</td>
<td>0.26</td>
<td>0.26</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Feeder, Conveyor, Magnet</td>
<td>0.43</td>
<td>0.15</td>
<td>0.15</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Roadways (mitigated)</td>
<td>3.59</td>
<td>0.96</td>
<td>0.10</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Pile Ops (controlled -watering)</td>
<td>0.89</td>
<td>0.42</td>
<td>0.13</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Total for Modification</strong></td>
<td><strong>6.06</strong></td>
<td><strong>1.98</strong></td>
<td><strong>0.83</strong></td>
<td><strong>0.00</strong></td>
<td><strong>0.00</strong></td>
<td><strong>0.00</strong></td>
<td><strong>0.00</strong></td>
</tr>
</tbody>
</table>

| Significant Level             | 25  | 15        | 10         | 40    | 40     | 40  | 100|

1PM$_{2.5}$ listed is direct PM$_{2.5}$.

The source opted to take limits in order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to this modification. See Technical Support Document (TSD) State Rule Applicability - Entire Source section, 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) for more information regarding the limit(s).

(a) This modification to an existing major PSD stationary source is not major because the emissions increase of each PSD regulated pollutant is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

(b) This modification to an existing major Emission Offset stationary source is not major because the emissions increase of NO$_x$ and VOC is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.
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 source and 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.

<table>
<thead>
<tr>
<th>Source-Wide Emissions After Issuance (ton/year)</th>
<th>PM$^1$</th>
<th>PM$_{10}^1$</th>
<th>PM$_{2.5}^1$.</th>
<th>SO$_2$</th>
<th>NO$_X$</th>
<th>VOC</th>
<th>CO</th>
<th>Single HAP$^3$</th>
<th>Total HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Plant</td>
<td>9.78</td>
<td>3.56</td>
<td>3.56</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chip Plant</td>
<td>3.18</td>
<td>1.13</td>
<td>1.13</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Portable/Auxiliary Equipment</td>
<td>6.32</td>
<td>2.31</td>
<td>2.31</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Dump Plant</td>
<td>2.04</td>
<td>0.73</td>
<td>0.73</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Portable Upgrade Plant</td>
<td>1.09</td>
<td>0.38</td>
<td>0.38</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Slag Pot Operations</td>
<td>155.61</td>
<td>155.61</td>
<td>155.61</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Wet Screening Plant</td>
<td>0.91</td>
<td>0.32</td>
<td>0.32</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Portable Miscellaneous Plant</td>
<td>1.59</td>
<td>0.60</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Roadways</td>
<td>10.32</td>
<td>2.75</td>
<td>0.28</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Storage Pile Ops</td>
<td>7.19</td>
<td>3.40</td>
<td>1.07</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Wind Erosion</td>
<td>1.81</td>
<td>0.90</td>
<td>0.14</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total PTE of Entire Source Including Fugitives*</td>
<td>199.83</td>
<td>171.69</td>
<td>166.13</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total PTE of ArcelorMittal Burns Harbor LLC</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;10</td>
<td>&gt;25</td>
<td></td>
</tr>
<tr>
<td>Combined PTE of Source and ArcelorMittal</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;10</td>
<td>&gt;25</td>
<td></td>
</tr>
<tr>
<td>Title V Major Source Thresholds</td>
<td>NA</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>10</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>PSD Major Source Thresholds</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>NA</td>
<td>100</td>
<td>--</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>Emission Offset Major Source Thresholds</td>
<td>---</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>100</td>
<td>100</td>
<td>NA</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

$^1$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.

The source opted to take limits 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 to this source. See Technical Support Document (TSD) State Rule Applicability - Entire Source section, 326 IAC 2-2 (PSD) and 326 IAC 2-3 (Emission Offset) for more information regarding the limit(s).

(a) This existing major PSD stationary source will continue to be major under 326 IAC 2-2 because at least one pollutant, 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 thresholds.

(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) The requirements of the New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60, Subpart IIII and 326 IAC 12, are not included in the permit for the two (2) non-road diesel engine generators, because pursuant to 40 CFR 60.4219, stationary internal combustion engines differ from non-road engines as defined in 40 CFR 1068.30 (excluding paragraph (2)(ii) of the definition). 40 CFR 1068.30 defines a non-road engine as any internal combustion engine that, by itself or in or on a piece of equipment, is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another.

However, 40 CFR 1068.30 also requires that a non-road engine not remain at a site for more than twelve (12) consecutive months. Any engine (or engines) that replace the engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period. Additionally, 40 CFR 1068.30 defines a location as any single site at a building, structure, facility, or installation.

Therefore, provided that the two (2) portable diesel engine generators do not remain at one site for a period greater that twelve (12) months, each shall meet the definition of a non-road engine and shall not be subject to the requirements of 40 CFR 60, Subpart IIII.

(b) The requirements of the New Source Performance Standard for Nonmetallic Mineral Processing Plants, 40 CFR 60, Subpart OOO, are not included in the permit for the Portable Miscellaneous Plant, because the material it processes is expanded and vitrified in a furnace which alters the physical and chemical makeup of the ore, producing a slag by-product that does not meet the definition of a nonmetallic mineral in 40 CRF 60.671.

(c) There are no other New Source Performance Standards (40 CFR Part 60) and 326 IAC 12 included in the permit for this proposed modification.

**National Emission Standards for Hazardous Air Pollutants (NESHAP):**

(d) The requirements of the National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63, Subpart ZZZZ, are not included in the permit for the two (2) non-road diesel engine generators, because pursuant to 40 CFR 63.6585, stationary reciprocating internal combustion engines differ from non-road engines as defined in 40 CFR 1068.30 (excluding paragraph (2)(ii) of the definition). 40 CFR 1068.30 defines a non-road engine as any internal combustion engine that, by itself or in or on a piece of equipment, is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another.
However, 40 CFR 1068.30 also requires that a non-road engine not remain at a site for more than twelve (12) consecutive months. Any engine (or engines) that replace the engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period. Additionally, 40 CFR 1068.30 defines a location as any single site at a building, structure, facility, or installation.

Therefore, provided that the two (2) portable diesel engine generators do not remain at one site for a period greater than twelve (12) months, each shall meet the definition of a non-road engine and shall not be subject to the requirements of 40 CFR 63, Subpart ZZZZ.

(e) There are no other National Emission Standards for Hazardous Air Pollutants under 40 CFR 63, 326 IAC 14 and 326 IAC 20 included 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.

There are no control devices in all the new emission units Therefore, the requirements of 40 CFR 64.2 are not applicable to this modification.

---

**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 of this document.

**2019 Modification**

In order to render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2019 Modification permitted under SSM No. 127-41626-00026, the Permittee shall comply with the following:

(a) The throughput for the Portable Miscellaneous Plant shall not exceed 700,000 tons per twelve (12) consecutive month period with compliance determined at the end of the month.

(b) The particulate emissions from the Portable Miscellaneous Plant shall not exceed the following:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit (lb/ton of material processed) Crusher</th>
<th>Emission Limit (lb/ton of material processed) Screen</th>
<th>Emission Limit (lb/ton of material processed) Feeder/Conveyor/Magnet</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.0012</td>
<td>0.0021</td>
<td>0.00014</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>0.00054</td>
<td>0.00074</td>
<td>0.00005</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>0.00054</td>
<td>0.00074</td>
<td>0.00005</td>
</tr>
</tbody>
</table>
Compliance with these limits, shall limit the potential to emit of PM, PM$_{10}$, and PM$_{2.5}$ from the Portable Miscellaneous Plant to less than PSD Significant Level of 25, 15 and 10 tons per year respectively and shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2019 Modification.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The provisions of 326 IAC 2-4.1 apply to any owner or operator who constructs or reconstructs a major source of hazardous air pollutants (HAP), as defined in 40 CFR 63.41, after July 27, 1997, unless the major source has been specifically regulated under or exempted from regulation under a NESHAP that was issued pursuant to Section 112(d), 112(h), or 112(j) of the Clean Air Act (CAA) and incorporated under 40 CFR 63. On and after June 29, 1998, 326 IAC 2-4.1 is intended to implement the requirements of Section 112(g)(2)(B) of the Clean Air Act (CAA).

The operation of the Portable Miscellaneous Plant will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

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 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)

This source was constructed after December 13, 1985 and has potential fugitive particulate emissions of twenty-five (25) tons per year or more. Pursuant to 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations), fugitive particulate matter emissions shall be controlled according to the Fugitive Dust Control Plan that is included as Attachment A to the permit.

State Rule Applicability – Individual Facilities

Due to this modification, state rule applicability has been reviewed as follows:

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(a), the requirements of 326 IAC 6-3-2 are applicable to the Portable Miscellaneous Plant, since it is a manufacturing process not exempted from this rule under 326 IAC 6-3-1(b) and is not subject to a particulate matter limitation that is as stringent as or more stringent than the particulate limitation established in this rule as specified in 326 IAC 6-3-1(c).

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the following listed units shall not exceed the pounds per hour limit listed when operating at the corresponding process weight rate.
<table>
<thead>
<tr>
<th>Process / Emission Unit</th>
<th>Process Weight Rate (P) (ton/hr)</th>
<th>Emission Limit (E) (lb/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>One (1) Feeder</td>
<td>1,000</td>
<td>77.59</td>
</tr>
<tr>
<td>One (1) Feed Conveyor</td>
<td>1,000</td>
<td>77.59</td>
</tr>
<tr>
<td>One (1) Screen</td>
<td>550</td>
<td>70.10</td>
</tr>
<tr>
<td>One (1) Screen under conveyor</td>
<td>550</td>
<td>70.10</td>
</tr>
<tr>
<td>Two (2) Screen output conveyors</td>
<td>550 each</td>
<td>70.10 each</td>
</tr>
<tr>
<td>One (1) Standby stacker/conveyor</td>
<td>1,000</td>
<td>77.59</td>
</tr>
<tr>
<td>One (1) Magnet</td>
<td>300</td>
<td>63.00</td>
</tr>
<tr>
<td>One (1) Stacker/Conveyor</td>
<td>1,000</td>
<td>77.59</td>
</tr>
<tr>
<td>One (1) Crusher</td>
<td>500</td>
<td>68.96</td>
</tr>
<tr>
<td>One (1) Crusher feed conveyor</td>
<td>500</td>
<td>68.96</td>
</tr>
<tr>
<td>One (1) Crusher output conveyor</td>
<td>500</td>
<td>68.96</td>
</tr>
</tbody>
</table>

The pound per hour limitation was calculated with the following equation:

\[ E = 55.0 \cdot P^{0.11} - 40 \]

Where:

- \( E \) = rate of emission in pounds per hour; and
- \( P \) = process weight rate in tons per hour

The control equipment shall be in operation at all times the process is in operation, in order to comply with this limit.

**326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)**

Even though, the Portable Miscellaneous Plant was constructed after January 1, 1980, it is not subject to the requirements of 326 IAC 8-1-6 because its unlimited VOC potential emissions are less than twenty-five (25) tons per year.

### 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:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Control Device</th>
<th>Timeframe for Testing</th>
<th>Pollutant</th>
<th>Frequency of Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable Miscellaneous Plant</td>
<td>Wet Suppression</td>
<td>Prior to feeding material to the Portable Miscellaneous Plant</td>
<td>Particulate Matter</td>
<td>Weekly</td>
</tr>
</tbody>
</table>

(b) The Compliance Monitoring Requirements applicable to this proposed modification are as follows:

<table>
<thead>
<tr>
<th>Control / Unit Parameter</th>
<th>Frequency</th>
<th>Range</th>
<th>Excursions and Exceedances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet Suppression for the Portable Miscellaneous Plant</td>
<td>Daily</td>
<td>Normal-Abnormal</td>
<td>Response Steps</td>
</tr>
</tbody>
</table>

**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):

**Change 1:** Condition A.1 has been modified to correct the Source Status since ArcelorMittal Burns Harbor was determined to be major source under Emission Offset rules in TV Renewal 127-40675-00001:

A.1 General Information [326 IAC 2-7-4(c)][326 IAC 2-7-5(14)][326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary slag finishing operation.

Source Status: Part 70 Operating Permit Program

Major Source under PSD and Minor Major Source under Emission Offset Rules

Major Source, Section 112 of the Clean Air Act

1 of 28 Source Categories

**Change 2:** Condition A.2 has been modified to update the Source Definition:

A.2 Part 70 Source Definition

This slag finishing operation consists of a source with on-site contractors:

(g) Mid-Continent Coal and Coke (127-00117), the on-site contractor, is located at 250 W US Hwy-12 Burns Harbor IN 46304.
(h) PSC Metals Inc. (127-00118), the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304.

(i) Calumite Company (127-00024), the on-site contractor, is located at 915 Sun Drive, Portage, IN 46368.

(jh) Oil Technology (T127-00074), the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304.

(i) Fritz Enterprises, Inc. the on-site contractor, is located at U.S. Highway 12, Burns Harbor, Indiana 46304

Change 3: Condition A.3 has been modified to incorporate the new emission units

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:

**********

(h) One (1) portable plant for miscellaneous crushing, screening and boat/barge loading, identified as Portable Miscellaneous Plant, approved in 2019 for construction, with a maximum capacity of 1,000 tons per hour, powered by non-road engines, using wet suppression for fugitive emissions control, consisting of the following equipment:

(1) One (1) Feeder with maximum capacity of 1,000 tons per hour;
(2) One (1) feed conveyor with maximum capacity of 1,000 tons per hour;
(3) One (1) screen with maximum capacity of 550 tons per hour;
(4) One (1) screen under conveyor with maximum capacity of 550 tons per hour;
(5) Two (2) screen output conveyors with maximum capacity of 550 tons per hour, each;
(6) One (1) standby stacker/conveyor with maximum capacity of 1,000 tons per hour;
(7) One (1) magnet with maximum capacity of 300 tons per hour;
(8) One (1) stacker/conveyor with maximum capacity of 1,000 tons per hour;
(9) One (1) crusher with maximum capacity of 500 tons per hour;
(10) One (1) crusher feed conveyor with maximum capacity of 500 tons per hour; and
(11) One (1) crusher output conveyor with maximum capacity of 500 tons per hour.

(h i) Four (4) portable diesel generator/engines, approved in 2012 for installation, each with a capacity of 559 Hp or less.

(i j) One (1) portable diesel generator/engine, approved in 2012 for installation, with a capacity between 600 Hp and 1500 Hp.

(j k) Three (3) portable diesel generator/engines, approved in 2012 for installation, each with a capacity of 100 Hp or less.

(l) Two (2) portable non-road diesel engine generators, approved in 2019 for installation, each with a capacity of 500 HP or less.

Note: Non-road engines are not considered in the emission calculations.
Change 4: Condition A.4 has been modified to incorporate the new emission unit and to remove the replaced units.

A.4 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [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(21):

(c) Activities with emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)]:

(1) 10,000 gallon diesel AST identified as EE001-9011 [326 IAC 8-9];
(2 1) 2,500 12,000 gallon diesel AST identified as EE001-9012 [326 IAC 8-9];
(3 2) Iron breakup processing identified as EE001-9014.

Change 5: Condition D.1 has been modified to include the changes in the emission units and the applicable rules.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Burns Harbor Site

(h) One (1) portable plant for miscellaneous crushing, screening and boat/barge loading, identified as Portable Miscellaneous Plant, approved in 2019 for construction, with a maximum capacity of 1,000 tons per hour, powered by non-road engines, using wet suppression for fugitive emissions control, consisting of the following equipment:

(1) One (1) Feeder with maximum capacity of 1,000 tons per hour;
(2) One (1) feed conveyor with maximum capacity of 1,000 tons per hour;
(3) One (1) screen with maximum capacity of 550 tons per hour;
(4) One (1) screen under conveyor with maximum capacity of 550 tons per hour;
(5) Two (2) screen output conveyors with maximum capacity of 550 tons per hour, each;
(6) One (1) standby stacker/conveyor with maximum capacity of 1,000 tons per hour;
(7) One (1) magnet with maximum capacity of 300 tons per hour;
(8) One (1) stacker/conveyor with maximum capacity of 1,000 tons per hour;
(9) One (1) crusher with maximum capacity of 500 tons per hour;
(10) One (1) crusher feed conveyor with maximum capacity of 500 tons per hour; and
(11) One (1) crusher output conveyor with maximum capacity of 500 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.1.4 Prevention of Significant Deterioration (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 limits:
(a) The total input of material at each of the Portable Miscellaneous Plant units, shall not exceed 700,000 tons per twelve consecutive month period with compliance determined at the end of each month.

(b) The moisture content of slag material processed at the Portable Miscellaneous Plant, shall not be less than 1.5%.

(c) The particulate emissions from the Portable Miscellaneous Plant shall not exceed the following:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Emission Limit (lb/ton of material processed)</th>
<th>Emission Limit (lb/ton of material processed)</th>
<th>Emission Limit (lb/ton of material processed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM</td>
<td>0.0012</td>
<td>0.0021</td>
<td>0.00014</td>
</tr>
<tr>
<td>PM(_{10})</td>
<td>0.00054</td>
<td>0.00074</td>
<td>0.00005</td>
</tr>
<tr>
<td>PM(_{2.5})</td>
<td>0.00054</td>
<td>0.00074</td>
<td>0.00005</td>
</tr>
</tbody>
</table>

Compliance with the above limits shall limit the PM, PM\(_{10}\) and PM\(_{2.5}\) emissions from the 2019 modification to less than 25, 15 and 10 tons per year, respectively, and render the requirements of 326 IAC 2-2 not applicable to the 2019 modification.

D.1.5.6 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emissions from each of the following listed units shall not exceed the pound per hour limit listed below:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Process weight rate (tons/hr)</th>
<th>326 IAC 6-3 limit lb/hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>**********</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portable Miscellaneous Plant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>One (1) Feeder</td>
<td>1000</td>
<td>77.59</td>
</tr>
<tr>
<td>One (1) feed conveyor</td>
<td>1000</td>
<td>77.59</td>
</tr>
<tr>
<td>One (1) screen</td>
<td>550</td>
<td>70.10</td>
</tr>
<tr>
<td>One (1) screen under conveyor</td>
<td>550</td>
<td>70.10</td>
</tr>
<tr>
<td>Two (2) screen output conveyors</td>
<td>550 each</td>
<td>70.10 each</td>
</tr>
<tr>
<td>One (1) standby stacker/conveyor</td>
<td>1000</td>
<td>77.59</td>
</tr>
<tr>
<td>One (1) magnet</td>
<td>300</td>
<td>63.00</td>
</tr>
<tr>
<td>One (1) stacker/conveyor</td>
<td>1000</td>
<td>77.59</td>
</tr>
<tr>
<td>One (1) crusher</td>
<td>500</td>
<td>68.96</td>
</tr>
<tr>
<td>One (1) crusher feed conveyor</td>
<td>500</td>
<td>68.96</td>
</tr>
<tr>
<td>One (1) crusher output conveyor</td>
<td>500</td>
<td>68.96</td>
</tr>
</tbody>
</table>

**********

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

D.1.67 Particulate Control [326 IAC 2-7-6(6)] [326 IAC 2.7.5(1)]

In order to comply with Conditions D.1.2(b) and D.1.3(c):

(a) The Permittee shall use wet suppression to control particulate emissions from Main Plant, Chip Plant, and Portable/Auxiliary Equipment, and the Portable Miscellaneous Plant except for the following time periods:
(i) During precipitation

(ii) When ambient air temperature is at or below freezing temperature

(b) The Permittee shall perform weekly moisture content analysis prior to feeding material to the Chip Plant, on the slag material processed at the Main Plant, Chip Plant, Portable Upgrade Plant and Portable/Auxiliary Equipment, and the Portable Miscellaneous Plant to ensure slag moisture content is not less than 1.5%.

**********

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

D.1.89 Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

(a) To document the compliance status with Condition D.1.1(b), D.1.2(a), and D.1.3(b), and D.1.4(a), the Permittee shall maintain monthly records of the input of material at Main Plant, Chip Plant and Portable/Auxiliary Equipment, and the Portable Miscellaneous Plant.

(b) To document the compliance status with condition D.1.3(c), and D.1.4(b), the Permittee shall maintain weekly records of the moisture content analysis.

(c) To document the compliance status with condition D.1.7-8 - Visible Emission Notation, the Permittee shall maintain a daily record of visible emission notations of the process emission points. 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 obligation with regard to the records required by this condition.

D.1.910 Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

A quarterly summary of the information required to document the compliance status with Conditions D.1.1(b), D.1.2(a), and D.1.3(b), and D.1.4(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. Section C - General Reporting Requirements 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(35).

Change 6: Condition D.2 has been modified to include the changes in the emission units and the applicable rules.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

<table>
<thead>
<tr>
<th>Emissions Unit Description: Insignificant Activities</th>
</tr>
</thead>
</table>

(c) Activities with emissions equal to or less than insignificant thresholds [326 IAC 2-7-1(21)]:

(1) 10,000 gallon diesel AST identified as EE001-9011 [326 IAC 8-9];

(21) One (1) 12,000 gallon diesel AST identified as EE001-9012 approved in 2019 for construction [326 IAC 8-9]; and

(32) Iron breakup processing identified as EE001-9014.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)
Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Emission Limitations for Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e)(2), the allowable particulate emissions from the brazing equipment, cutting torches, soldering equipment, and welding equipment shall not exceed 0.551 pounds per hour.

D.2.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9-1(b), stationary vessels with a capacity of less than thirty-nine thousand (39,000) gallons (EE001-9011 and 9012) are subject to the reporting and record keeping provisions of section 6(a) and 6(b) of this rule and are exempt from all other provisions of this rule.

Change 7: The Part 70 Quarterly Report form for the diesel fuel usage has been replaced with the material input to the Portable Miscellaneous Plant:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH

Part 70 Quarterly Report

Source Name: Metal Service LLC dba Phoenix Services LLC
Source Address: 250 U.S. Highway 12, Burns Harbor, Indiana 46304
Part 70 Permit No.: T127-36307-00026
Facility: diesel generators/engines listed in Section D.2 of this permit Portable Miscellaneous Plant
Parameter: total diesel fuel usage Total input of material at the Portable Miscellaneous Plant
Limit: Less than 60,000 gallons 700,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month

Additional Changes

IDEM, OAQ made additional changes to the permit as described below in order to update the language to match the most current version of the applicable rule, to eliminate redundancy within the permit, and to provide clarification regarding the requirements of these conditions.

Change 1: For this modification IDEM OAQ has included IDEM’s Master Agency Interest Identification (ID) number of 100016 in the permit cover page signature box.

<table>
<thead>
<tr>
<th>Operation Permit No.: T127-36307-00026</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Agency Interest ID.: 100016</td>
</tr>
</tbody>
</table>

| Issued by: Josiah K. Balogun, Section Chief Permits Branch Office of Air Quality |
|----------------------------------------|----------------------------------------|
| Issuance Date: May 31, 2016            | Expiration Date: May 31, 2021           |
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 July 1, 2019. Additional information was received on July 11, 2019.

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 127-41626-00026. The operation of this proposed modification shall be subject to the conditions of the attached proposed Significant Permit Modification No. 127-41633-00026.

The staff recommends to the Commissioner that the Part 70 Significant Source Modification and Significant Permit Modification be approved.

IDEM Contact

(a) If you have any questions regarding this permit, please contact Wilfredo de la Rosa, Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or by telephone at (317) 232-8422 or (800) 451-6027, and ask for Wilfredo de la Rosa or (317) 232-8422.

(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: http://www.in.gov/idem/airquality/2356.htm; and the Citizens' Guide to IDEM on the Internet at: http://www.in.gov/idem/6900.htm.
# TSD Appendix A: Emission Calculations

**Source wide Summary Prior to Modification**

**Company Name:** Phoenix Services, LLC  
**Address:** 250 W US Hwy 12 Burns Harbor, IN 46304  
**Significant Source Modification No.:** 127-41626-00026  
**Significant Permit Modification No.:** 127-41633-00026  
**Reviewer:** Wilfredo de la Rosa

<table>
<thead>
<tr>
<th>Process/Equip</th>
<th>PM10 (tpy)</th>
<th>PM2.5 (tpy)</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>Total HAPs</th>
<th>Single HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main Plant</strong></td>
<td>540.51</td>
<td>197.00</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Chip Plant</strong></td>
<td>111.45</td>
<td>39.72</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Portable/Auxiliary Eq.</strong></td>
<td>308.51</td>
<td>111.87</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Dump Plant</strong></td>
<td>134.53</td>
<td>49.06</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Portable Upgrade Plant</strong></td>
<td>87.99</td>
<td>31.24</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Slag Pot Operations</strong></td>
<td>155.61</td>
<td>155.61</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Wet Screening Plant</strong></td>
<td>61.10</td>
<td>21.48</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Portable Miscellaneous Plant</strong></td>
<td>163.37</td>
<td>59.70</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Roadways</strong></td>
<td>52.55</td>
<td>14.00</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Storage Pile Ops</strong></td>
<td>175.06</td>
<td>82.80</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Wind Erosion</strong></td>
<td>47.65</td>
<td>23.83</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>1838.34</td>
<td>786.31</td>
<td>696.68</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**LIMITED POTENTIAL-TO-EMIT (tons/year)**

<table>
<thead>
<tr>
<th>Process/Equip</th>
<th>PM10 (tpy)</th>
<th>PM2.5 (tpy)</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>Total HAPs</th>
<th>Single HAPs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main Plant</strong></td>
<td>9.78</td>
<td>3.56</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Chip Plant</strong></td>
<td>3.18</td>
<td>1.13</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Portable/Auxiliary Eq.</strong></td>
<td>6.32</td>
<td>2.31</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td></td>
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<tr>
<td><strong>Dump Plant</strong></td>
<td>2.04</td>
<td>0.73</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>Portable Upgrade Plant</strong></td>
<td>1.09</td>
<td>0.38</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>Slag Pot Operations</strong></td>
<td>155.61</td>
<td>155.61</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td><strong>Wet Screening Plant</strong></td>
<td>0.91</td>
<td>0.32</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
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<tr>
<td><strong>Portable Miscellaneous Plant</strong></td>
<td>1.59</td>
<td>0.60</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>Roadways</strong></td>
<td>10.32</td>
<td>2.75</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>Storage Pile Ops</strong></td>
<td>7.19</td>
<td>3.40</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>Wind Erosion</strong></td>
<td>1.81</td>
<td>0.90</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td><strong>Totals</strong></td>
<td>199.83</td>
<td>171.69</td>
<td>166.13</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>
### Potential to Emit (PTE) - Before Controls

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Equipment</td>
<td>163.37</td>
<td>59.70</td>
<td>59.70</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Roadways</td>
<td>7.18</td>
<td>1.91</td>
<td>0.19</td>
<td>---</td>
<td>---</td>
<td>---</td>
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<tr>
<td>Pile Ops</td>
<td>8.85</td>
<td>4.19</td>
<td>1.32</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Totals</td>
<td>179.41</td>
<td>65.80</td>
<td>61.21</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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</table>

### Limited Throughput Emissions - After Controls

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Equipment</td>
<td>1.59</td>
<td>0.60</td>
<td>0.60</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Roadways</td>
<td>3.59</td>
<td>0.96</td>
<td>0.10</td>
<td>---</td>
<td>---</td>
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</tr>
<tr>
<td>Pile Ops</td>
<td>0.89</td>
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<td>0.13</td>
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<td>---</td>
</tr>
<tr>
<td>Totals</td>
<td>6.06</td>
<td>1.98</td>
<td>0.83</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
</table>

### Significance Thresholds

<table>
<thead>
<tr>
<th>Pollutants</th>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25</td>
<td>15</td>
<td>10</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>40</td>
<td>NA</td>
</tr>
<tr>
<td>Process Equipment</td>
<td>Capacity (tph)</td>
<td>Capacity Throughput (tpy)</td>
<td>Limited Throughput (tpy)</td>
<td>PM (lb/tn)</td>
<td>PM(_{10}) (lb/tn)</td>
<td>PM(_{2.5}) (lb/tn)</td>
<td>PM (tpy)</td>
<td>PM(_{10}) (tpy)</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------</td>
<td>---------------------------</td>
<td>--------------------------</td>
<td>------------</td>
<td>----------------------</td>
<td>----------------------</td>
<td>----------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Feeder</td>
<td>1000</td>
<td>8,760,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>13.14</td>
<td>4.82</td>
</tr>
<tr>
<td>Feed conveyor with Hopper (one piece)</td>
<td>1000</td>
<td>8,760,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>13.14</td>
<td>4.82</td>
</tr>
<tr>
<td>Screen</td>
<td>550</td>
<td>4,818,000</td>
<td>700,000</td>
<td>0.025</td>
<td>0.0087</td>
<td>0.0087</td>
<td>60.23</td>
<td>20.96</td>
</tr>
<tr>
<td>Screen under conveyor</td>
<td>550</td>
<td>4,818,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>7.23</td>
<td>2.65</td>
</tr>
<tr>
<td>Screen output conveyor</td>
<td>550</td>
<td>4,818,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>7.23</td>
<td>2.65</td>
</tr>
<tr>
<td>Standby stacker/conveyor</td>
<td>1000</td>
<td>8,760,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>13.14</td>
<td>4.82</td>
</tr>
<tr>
<td>Magnet</td>
<td>300</td>
<td>2,628,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>3.94</td>
<td>1.45</td>
</tr>
<tr>
<td>Stacker / Conveyor</td>
<td>1000</td>
<td>8,760,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>13.14</td>
<td>4.82</td>
</tr>
<tr>
<td>Crusher</td>
<td>500</td>
<td>4,380,000</td>
<td>700,000</td>
<td>0.0054</td>
<td>0.0024</td>
<td>0.0024</td>
<td>11.83</td>
<td>5.26</td>
</tr>
<tr>
<td>Crusher feed conveyor</td>
<td>500</td>
<td>4,380,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>6.57</td>
<td>2.41</td>
</tr>
<tr>
<td>Crusher output conveyor</td>
<td>500</td>
<td>4,380,000</td>
<td>700,000</td>
<td>0.003</td>
<td>0.0011</td>
<td>0.0011</td>
<td>6.57</td>
<td>2.41</td>
</tr>
</tbody>
</table>

**Total (tpy):** 163.37 59.70 59.70 1.59 0.60 0.60

**Control Efficiencies**
- Control efficiency, transfer points: 95.9% AP-42 11.19.2-2, p13, 8/2004 version
- Control efficiency, crushing: 77.7% AP-42 11.19.2-2, p13, 8/2004 version
- Control efficiency, screening: 91.6% AP-42 11.19.2-2, p13, 8/2004 version

Control efficiencies per AP-42 11.19.2 Background Document, dated May 12, 2003, processing materials with moistures at 1.5% or above (page 15).
TSD Appendix A: Emission Calculations
Portable Plant - Vessel Loading/Screening/Crushing

Company Name: Phoenix Services, LLC
Address: 250 W US Hwy 12 Burns Harbor, IN 46304
Significant Source Modification No.: 127-41626-00026
Significant Permit Modification No.: 127-41633-00026
Reviewer: Wilfredo de la Rosa

Generator Emissions, less than 500 hp

Emissions calculated based on output rating (hp) - PTE
Two (2) portable diesel generator/engines, each with a capacity of less than 500 hp

<table>
<thead>
<tr>
<th>Total Output Horsepower Rating (hp)</th>
<th>1000.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Operated per Year</td>
<td>8760</td>
</tr>
<tr>
<td>Potential Throughput (hp-hr/yr)</td>
<td>8,760,000</td>
</tr>
</tbody>
</table>

**PM and PM2.5 emission factors are assumed to be equivalent to PM10 emission factors. No information was given regarding which method was used to determine the factor or the fraction of PM10 which is condensable.**

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM*</th>
<th>PM10*</th>
<th>direct PM2.5*</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor in lb/hp-hr</td>
<td>0.0022</td>
<td>0.0022</td>
<td>0.0022</td>
<td>0.0021</td>
<td>0.0310</td>
<td>0.0025</td>
<td>0.0067</td>
</tr>
<tr>
<td>Potential Emission in tons/yr</td>
<td>9.64</td>
<td>9.64</td>
<td>9.64</td>
<td>8.98</td>
<td>135.78</td>
<td>11.01</td>
<td>29.26</td>
</tr>
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</table>

Hazardous Air Pollutants (HAPs)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Benzene</th>
<th>Toluene</th>
<th>Xylene</th>
<th>1,3-Butadiene</th>
<th>Formaldehyde</th>
<th>Acetaldehyde</th>
<th>Acrolein</th>
<th>Total PAH HAPs***</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor in lb/hp-hr****</td>
<td>6.53E-06</td>
<td>2.86E-06</td>
<td>2.08E-06</td>
<td>2.74E-07</td>
<td>8.26E-06</td>
<td>5.37E-06</td>
<td>6.48E-07</td>
<td>1.18E-06</td>
</tr>
<tr>
<td>Potential Emission in tons/yr***</td>
<td>2.98E-02</td>
<td>1.26E-02</td>
<td>8.74E-03</td>
<td>1.20E-03</td>
<td>3.62E-02</td>
<td>2.38E-02</td>
<td>2.84E-03</td>
<td>5.15E-03</td>
</tr>
</tbody>
</table>

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)
****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Green House Gas Emissions (GHG)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>CO2</th>
<th>CH4</th>
<th>N2O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor in lb/hp-hr</td>
<td>1.15E+00</td>
<td>4.63E-05</td>
<td>9.26E-06</td>
</tr>
<tr>
<td>Potential Emission in tons/yr</td>
<td>5.04E+03</td>
<td>2.03E-01</td>
<td>4.06E-02</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM*</th>
<th>PM10*</th>
<th>direct PM2.5*</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor in lb/MMBtu</td>
<td>0.31</td>
<td>0.31</td>
<td>0.31</td>
<td>0.29</td>
<td>4.41</td>
<td>0.36</td>
<td>0.95</td>
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<tr>
<td>Potential Emission in tons/yr</td>
<td>0.21</td>
<td>0.21</td>
<td>0.21</td>
<td>0.20</td>
<td>3.02</td>
<td>0.25</td>
<td>0.65</td>
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</table>

Emissions calculated based on limited diesel fuel usage

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>CO2</th>
<th>CH4</th>
<th>N2O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor in lb/hp-hr</td>
<td>1.15E+00</td>
<td>4.63E-05</td>
<td>9.26E-06</td>
</tr>
<tr>
<td>Potential Emission in tons/yr</td>
<td>5.04E+03</td>
<td>2.03E-01</td>
<td>4.06E-02</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM*</th>
<th>PM10*</th>
<th>direct PM2.5*</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential Emission in tons/yr</td>
<td>6.39E-04</td>
<td>2.80E-04</td>
<td>1.95E-04</td>
<td>2.68E-05</td>
<td>8.08E-04</td>
<td>5.26E-04</td>
<td>6.34E-05</td>
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</tbody>
</table>

Green House Gas Emissions (GHG)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>CO2</th>
<th>CH4</th>
<th>N2O</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor in lb/hp-hr</td>
<td>1.15E+00</td>
<td>4.63E-05</td>
<td>9.26E-06</td>
</tr>
<tr>
<td>Potential Emission in tons/yr</td>
<td>5.04E+03</td>
<td>2.03E-01</td>
<td>4.06E-02</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM*</th>
<th>PM10*</th>
<th>direct PM2.5*</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Factor in lb/MMBtu</td>
<td>1.12E+02</td>
<td>6.61E-03</td>
<td>1.32E-03</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potential Emission in tons/yr</td>
<td>1.12E+02</td>
<td>4.33E-03</td>
<td>9.06E-04</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
TSD Appendix A: Emission Calculations
Portable Plant - Vessel Loading/Screening/Crushing

Company Name: Phoenix Services, LLC
Address: 250 W US Hwy 12 Burns Harbor, IN 46304
Significant Source Modification No.: 127-41626-00026
Significant Permit Modification No.: 127-41633-00026

Unpaved Roadway Emissions
Reviewer: Wilfredo de la Rosa

<table>
<thead>
<tr>
<th>Type and Activity (one-way each)</th>
<th>Unmitigated PTE for PM (tons/yr)</th>
<th>Unmitigated PTE for PM10 (tons/yr)</th>
<th>Unmitigated PTE for PM2.5 (tons/yr)</th>
<th>Mitigated PTE for PM (tons/yr)</th>
<th>Mitigated PTE for PM10 (tons/yr)</th>
<th>Mitigated PTE for PM2.5 (tons/yr)</th>
<th>Controlled PTE for PM (tons/yr)</th>
<th>Controlled PTE for PM10 (tons/yr)</th>
<th>Controlled PTE for PM2.5 (tons/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loader movements (empty)</td>
<td>5.58</td>
<td>1.49</td>
<td>0.15</td>
<td>3.59</td>
<td>0.96</td>
<td>0.10</td>
<td>1.80</td>
<td>0.48</td>
<td>0.05</td>
</tr>
<tr>
<td>Loader movements (full)</td>
<td>5.58</td>
<td>1.49</td>
<td>0.15</td>
<td>3.59</td>
<td>0.96</td>
<td>0.10</td>
<td>1.80</td>
<td>0.48</td>
<td>0.05</td>
</tr>
<tr>
<td>**Totals:</td>
<td>7.18</td>
<td>1.91</td>
<td>0.19</td>
<td>3.59</td>
<td>0.96</td>
<td>0.19</td>
<td>3.59</td>
<td>0.96</td>
<td>0.10</td>
</tr>
</tbody>
</table>

Mobile equipment weight: 38 tons
Loader tare weight: 12 tons
Loader bucket load weight: 24 tons

Unmitigated Emission Factor, $E_f = k^*(s/12)^a*[W/3]^b$  (Equation 1a from AP-42 13.2.2)

Where:
- $k = 4.9$ lb/mi = particle size multiplier (AP-42 Table 13.2.2-2 for Industrial Roads)
- $s = 6$ % = mean silt content of unpaved roads (AP-42 Table 13.2.2-1 Iron/Steel Plants)
- $a = 0.7$ = constant (AP-42 Table 13.2.2-2 for Industrial Roads)
- $W = 44.0$ tons = average vehicle weight (provided by source)
- $b = 0.45$ = constant (AP-42 Table 13.2.2-2 for Industrial Roads)

Mitigated Emission Factor, $E_{ext} = E * [(365 - P)/365]$  (Equation 2 from AP-42 13.2.2)

Where $P = 130$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.2-1)
Storage Pile Loading and Unloading

From AP-42 13.2.4, Aggregate Handling and Storage Piles, January 1995

Emissions from slag storage piles can be described by the following empirical equation:

\[ E = k(0.0032) \left( \frac{U}{5} \right)^{1.3} \left( \frac{M}{2} \right)^{1.4} \]

Where:

- \( E \) = emission factor (lb/tn)
- \( k = PM_{10} \) = 0.74
- \( U = \) mean wind speed, miles per hour
- \( M = \) material moisture content (%)
- \( PM_{2.5} = \) 0.11

\[ U = 13.4 \text{ mean wind speed, mph} \]

The mean moisture content was estimated as the average moisture content based on onsite test data.

\[ M = 0.92 \% \text{ uncontrolled moisture, worst case is slag} \]

### E = Emission Factors (lb/tn)

<table>
<thead>
<tr>
<th></th>
<th>PM</th>
<th>PM10</th>
<th>PM2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>0.0252986</td>
<td>0.01196554</td>
<td>0.003760598</td>
</tr>
</tbody>
</table>

---

**POTENTIAL EMISSIONS**

Production: 700,000 tpy

Control Eff: 90% Watering

- 8.854499348 Uncontrolled PM (tons)
- 0.885449935 Controlled PM (tons)

- 4.187938881 Uncontrolled PM10 (tons)
- 0.418793888 Controlled PM10 (tons)

- 1.316209363 Uncontrolled PM2.5 (tons)
- 0.131620936 Controlled PM2.5 (tons)
Emission Factors

AP-42, 11.19.2, Table 11.19.2-2, Date 8/04
Crushed Stone Processing Operations

<table>
<thead>
<tr>
<th>Source Operation</th>
<th>Uncontrolled PM (lb/ton)</th>
<th>Uncontrolled PM-10 (lb/ton)</th>
<th>Uncontrolled PM-2.5 (lb/ton)</th>
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</thead>
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<tr>
<td>Primary Crushing (SCC 3-05-020-01)</td>
<td>ND</td>
<td>ND</td>
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<tr>
<td>Secondary Crushing (SCC 3-05-020-02)</td>
<td>ND</td>
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<td>Tertiary Crushing (SCC 3-05-020-03)</td>
<td>0.0054</td>
<td>0.0024</td>
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<td>Screening (SCC 3-05-020-02, 03)</td>
<td>0.025</td>
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<td>Converyor Transfer Point (SCC 3-05-020-06)</td>
<td>0.003</td>
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<td>Front end loader/truck</td>
<td>0.0088</td>
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ND = no data.

AP-42 12-05, Table 12.5-5, for low silt slag. The materials processed in this permitting exercise are all higher moisture materials with low silt content less than 5%.
### TSD Appendix A: Emission Calculations

Source wide Summary Prior to Modification

**Company Name:** Phoenix Services, LLC  
**Address:** 250 W US Hwy 12 Burns Harbor, IN 46304  
**Significant Source Modification No.:** 127-41626-00026  
**Significant Permit Modification No.:** 127-41633-00026  
**Reviewer:** Wilfredo de la Rosa

#### UNCONTROLLED/UNLIMITED POTENTIAL-TO-EMIT (tons/year)

<table>
<thead>
<tr>
<th>Process/Equip</th>
<th>PM (tpy)</th>
<th>PM10 (tpy)</th>
<th>PM2.5 (tpy)</th>
<th>SO2</th>
<th>NOx</th>
<th>VOC</th>
<th>CO</th>
<th>Total HAPs</th>
<th>Single HAPs</th>
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<tbody>
<tr>
<td>Main Plant</td>
<td>9.78</td>
<td>3.56</td>
<td>3.56</td>
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<td>Chip Plant</td>
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<td>Wind Erosion</td>
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#### LIMITED POTENTIAL-TO-EMIT (tons/year)

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<tr>
<th>Process/ Equip</th>
<th>PM (tpy)</th>
<th>PM10 (tpy)</th>
<th>PM2.5 (tpy)</th>
<th>SO2</th>
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<th>VOC</th>
<th>CO</th>
<th>Total HAPs</th>
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<tr>
<td>Main Plant</td>
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</tbody>
</table>
August 8, 2019

Mr. Keith Flynn  
Metal Services, LLC. dba Phoenix Services, LLC.  
P.O. Box 619  
Chesterton, Indiana  46304-0619

Re: Public Notice  
Metal Services, LLC. dba Phoenix Services, LLC.  
Permit Level: Title V SSM (Minor PSD) and  
Title V SPM  
Permit Number: 127-41626-00026 and  
127-41633-00026

Dear Mr. Flynn:

Enclosed is a copy of your draft Title V Significant Source Modification (Minor PSD) and a copy of your draft Title V Significant Permit Modification, Technical Support Document, emission calculations, and the Public Notice.

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/5474.htm

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 Westchester Public Library, 200 West Indiana Avenue in Chesterton, Indiana. 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.

Please review the enclosed 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 Mr. Wilfredo de la Rosa, Indiana Department of Environmental Management, Office of Air Quality, 100 N. Senate Avenue, Indianapolis, Indiana, 46204 or call (800) 451-6027, and ask for extension 208422 or dial (317) 232-8422.

Sincerely,

**John F. Jackson**

John F. Jackson  
Permits Branch  
Office of Air Quality

Enclosures  
PN Applicant Cover Letter 4/12/19
August 8, 2019

To: Westchester Public Library

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: Metal Services, LLC. dba Phoenix Services, LLC.
Permit Number: 127-41626-00026 and 127-41633-00026

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 Smiddle-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 4/2019
Notice of Public Comment

August 8, 2019
Metal Services, LLC. dba Phoenix Services, LLC.
127-41626-00026 and 127-41633-00026

Dear Concerned Citizen(s):

You have been identified as someone who could potentially be affected by this proposed air permit. The Indiana Department of Environmental Management, in our ongoing efforts to better communicate with concerned citizens, invites your comment on the draft permit.

Enclosed is a Notice of Public Comment, which has posted on IDEM’s Public Notice website at https://www.in.gov/idem/5474.htm.

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 feel you have received this Notice in error, or would like to be removed from the Air Permits mailing list, please contact Patricia Pear with the Air Permits Administration Section at 1-800-451-6027, ext. 3-6875 or via e-mail at PPEAR@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.
AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD
DRAFT INDIANA AIR PERMIT

August 8, 2019

A 30-day public comment period has been initiated for:

**Permit Number:** 127-41626-00026 and 127-41633-00026  
**Applicant Name:** Metal Services, LLC. dba Phoenix Services, LLC.  
**Location:** Burns Harbor, Porter County, Indiana

The public notice, draft permit and technical support documents can be accessed via the IDEM Air Permits Online site at:  
http://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  
100 North Senate Avenue  
Indianapolis, IN 46204

Questions or comments regarding this email notification or access to this information from the EPA Internet site can be directed to Chris Hammack at chammack@idem.IN.gov or (317) 233-2414.

Affected States Notification 1/9/2017
Mail Code 61-53

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<tr>
<th>IDEM Staff</th>
<th>J JACKSON 8/8/2019 Metal Services LLC dba Phoenix Services LLC contractor 001 127-41626-00026 and 127-41633-00026 (DRAFT)</th>
<th>AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING</th>
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</thead>
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<tr>
<td><strong>Name and address of Sender</strong></td>
<td>Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204</td>
<td><strong>Type of Mail:</strong> CERTIFICATE OF MAILING ONLY</td>
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<th>S.H. Fee</th>
<th>Rest. Del. Fee</th>
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<td>Keith Flynn Metal Services LLC dba Phoenix Services LLC contractor PO Box 619 Chesterton IN 46304-0619 (Source CAATS)</td>
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<td>Westchester (Thomas) Public Library 200 W Indiana Ave Chesterton IN 46304-3122 (Library)</td>
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<tr>
<td>3</td>
<td></td>
<td>Porter County Board of Commissioners 155 Indiana Ave, Ste 205 Valparaiso IN 46383 (Local Official)</td>
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<td>Porter County Health Department 155 Indiana Ave, Suite 104 Valparaiso IN 46383-5502 (Health Department)</td>
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<tr>
<td>5</td>
<td></td>
<td>Mr. Ed Dybel 900 Parker Place, Suite A Schererville IN 46325-1482 (Affected Party)</td>
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<td>6</td>
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<td>Mr. Joseph Virgil 128 Kinsale Avenue Valparaiso IN 46385 (Affected Party)</td>
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<td></td>
<td>Ms. Kathy Luther Northern Regional Planning Commission 6100 Southport Rd Portage IN 46368 (Affected Party)</td>
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<td>8</td>
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<td>Burns Harbor Town Council 1240 N. Boo Rd Burns Harbor IN 46304 (Local Official)</td>
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<td>9</td>
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<td>Eric &amp; Sharon Haussman 57 Shore Drive Ogden Dunes IN 46368 (Affected Party)</td>
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<tr>
<td>10</td>
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<td>Vice President and General Manager ISG Burns Harbor 260 W US Hwy 12 Burns Harbor IN 46304 (Source ? addl contact)</td>
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<td>11</td>
<td></td>
<td>Susan Grenzebach ST Environmental, LLC PO Box 40129 Austin TX 78704-0003 (Consultant)</td>
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<td>Responsible Official Arcelor Mittal 250 W. Highway 12 Burns Harbor IN 46304 (Source – addl contact)</td>
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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 mill 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 insured and COD mail. See International Mail Manual for limitations of coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.