NOTICE OF 30-DAY PERIOD FOR PUBLIC COMMENT

Preliminary Findings Regarding a Minor Modification to a Part 70 Operating Permit for Alcoa Warrick LLC in Warrick County

Minor Permit Modification No.: 173-40732-00002

The Indiana Department of Environmental Management (IDEM) has received an application from Alcoa Warrick LLC, located at 4700 Darlington Road, Newburgh, IN, for a minor modification of its Part 70 Operating Permit issued on August 23, 2016. If approved by IDEM’s Office of Air Quality (OAQ), this proposed modification would allow Alcoa Warrick LLC to make certain changes at its existing source. Alcoa Warrick LLC has applied to opt out of the acid rain program for three (3) dry bottom, pulverized coal-fired boilers, identified as Boiler No. 1, Boiler No. 2, and Boiler No. 3.

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

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

Ohio Township Public Library
411 Lakeshore Drive
Newburgh, IN 47630

and

IDEM Southwest Regional Office
114 South 7th Street
P.O. Box 128
Petersburg, IN 47567-0128

A copy of the preliminary findings is available on the Internet at: 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/ 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) 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 MPM 173-40732-00002 in all correspondence.

Comments should be sent to:

Jared Karban  
IDEM, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 ICCN 1003  
Indianapolis, Indiana 46205-2251  
(800) 451-6027, ask for Jared Karban or (317) 233-4230  
Or dial directly: (317) 233-4230  
Fax: (317) 232-6749 attn: Jared Karban  
E-mail: JKaran@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 IDEM Southwest Regional Office, and the IDEM public file room on the 12th floor of the Indiana Government Center North, 100 N. Senate Avenue, Indianapolis, Indiana 46205-2251.

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

[Signature]

Ghassan Shalabi, Section Chief  
Permits Branch  
Office of Air Quality
Ms. Anna Bogan  
Alcoa Warrick LLC  
4700 Darlington Road, P.O. Box 10  
Newburgh, Indiana 47629-0010  

Re: 173-40732-00002  
Minor Permit Modification

Dear Ms. Bogan:

Alcoa Warrick LLC was issued Part 70 Operating Permit Renewal No. T173-36540-00002 on August 23, 2016 for a 4 unit Electric power station adjacent to plant Id 00001 (SIEGCO has a permit for 1 unit) located at 4700 Darlington Road, Newburgh, IN 47629-0010. An application requesting changes to this permit was received on November 19, 2018. Pursuant to the provisions of 326 IAC 2-7-12, a Minor Permit Modification to this permit is hereby approved as described in the attached Technical Support Document.

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

Attachment A: 40 CFR 60, Subpart OOO, Standards of Performance for Stationary Nonmetallic Mineral Processing Plants  
Attachment B: 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines  
Attachment C: 40 CFR 60, Subpart Db, New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units  
Attachment D: 40 CFR 60, Subpart Y, Standards of Performance for Coal Preparation and Processing Plants  
Attachment E: 40 CFR 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters  
Attachment F: 40 CFR 63, Subpart UUUUU, National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units

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

Previously issued approvals for this source are also available via IDEM’s Virtual File Cabinet (VFC.) 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.


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.

If you have any questions regarding this matter, please contact Jared Karban, 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) 233-4230 or (800) 451-6027, and ask for Jared Karban or (317) 233-4230.

Sincerely,

Ghassan Shalabi, Section Chief
Permits Branch
Office of Air Quality

Attachments: Modified Permit and Technical Support Document
cc: File - Warrick County
    Warrick County Health Department
    U.S. EPA, Region 5
    Compliance and Enforcement Branch
    IDEM Southwest Regional Office
Part 70 Operating Permit Renewal
OFFICE OF AIR QUALITY

Alcoa Warrick LLC
4700 Darlington Road
Newburgh, Indiana 47630

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

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

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

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<td>Tripurari P. Sinha, Ph. D., Section Chief</td>
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National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

[326 IAC 2-7-5(1)]


E.6.2 Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD] [326 IAC 20-95]

SECTION E.7  NESHAP

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements

[326 IAC 2-7-5(1)]


SECTION F

Clean Air Interstate Rule (CAIR) Nitrogen Oxides Annual, Sulfur Dioxide, and Nitrogen Oxides Ozone Season Trading Programs – CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)

CERTIFICATION

EMERGENCY OCCURRENCE REPORT

Part 70 Quarterly Report

QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Attachment A: 40 CFR Part 60, Subpart OOO
Standards of Performance for Stationary Nonmetallic Mineral Processing Plants

Attachment B: 40 CFR Part 63, Subpart ZZZZ
National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Attachment C: 40 CFR Part 60, Subpart Db
New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units
Attachment D: 40 CFR Part 60, Subpart Y
Standards of Performance for Coal Preparation and Processing Plants

Attachment E: 40 CFR Part 63, Subpart DDDDD
National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters

Attachment F: 40 CFR Part 63, Subpart UUUUU
National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units
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 electric utility generating station.

Source Address: 4700 Darlington Road, Newburgh, Indiana 47630
General Source Phone Number: (812) 533-1519
SIC Code: 4931
County Location: Warrick
Source Location Status: Attainment for all criteria pollutants
Source Status: Part 70 Operating Permit Program

Major Source, under PSD Rules
Major Source, Section 112 of the Clean Air Act
1 of 28 Source Categories

A.2 Part 70 Source Definition [326 IAC 2-7-1(22)]

This company consists of two (2) plants:

(a) Alcoa aluminum production plant, the primary operation, is located at Jct. IN Hwys. 66 & 61, Newburgh, Indiana.

(b) Alcoa power plant, the supporting operation, is located at 4700 Darlington Road, Newburgh, Indiana.

However, these plants are located on one or more contiguous properties, have the same two digit SIC code and are under common ownership, therefore they are considered one (1) major source, as defined by 326 IAC 2-7-1(22).

Separate Part 70 Operating permits will be issued to Alcoa Inc. – Warrick Operations ID - 173-00007 and Alcoa Warrick Power Plant ID - 173-00002 solely for administrative purposes. This conclusion was initially determined under Part 70 Operating Permit Renewal T173-6630-00002 on June 13, 2006.

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:

(a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced on July 26, 1956, with an on-line date of April 1960, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-1, which is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 1 was configured with a low NOx burner and over-fire air in 2003. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 1 were installed in 2008.

Note: Boiler No. 1 is capable of burning non-hazardous carbon anode production waste
from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source.]

(b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced on July 26, 1956, with an on-line date of January 1964, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-2, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 2 was configured with a low NOx burner and over-fire air in 2004. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 2 were installed in 2008.

Note: Boiler No. 2 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility.

[Under NESHAP Subpart DDDDD, this unit is part of an affected source.]

(c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced on July 26, 1956, with an on-line date of October 1965, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-3, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 3 was configured with a low NOx burner and over-fire air in 2002. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 3 were installed in 2008.

Note: Boiler No. 3 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility.

[Under NESHAP Subpart DDDDD, this unit is part of an affected source.]

(d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced on March 16, 1968, with an electrostatic precipitator (ESP) for control of particulate matter. Boiler No. 4 was configured with a low NOx burner in 1998, a Selective Catalytic Reduction (SCR) system permitted and constructed in 2004, a wet FGD scrubber, which commenced operation in 2008, and a reagent injection system that will reduce sulfuric acid emissions exiting the SCR, constructed in 2009. Boiler No. 4 has a nominal heat input capacity of 2,958 MMBtu/hr, and vents to Stack 243, which has continuous emissions monitors (CEMs) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), mercury (Hg, sorbent tube traps), particulate matter (PM) and sulfur dioxide (SO2). Boiler No. 4 has a natural gas burner for start-up and may be fired in conjunction with the coal-fired capability. Construction of a dedicated wet limestone slurry absorber scrubber began in 2005.
[Under NESHAP Subpart UUUU, this unit is part of an affected source.]

(e) One (1) unloading station for barges, constructed prior to 1974, consisting of a clamshell bucket that transfers coal, limestone, and calcined petroleum coke from the barge to a spud hopper, with a nominal throughput of 1,300 tons of coal per hour, 800 tons of limestone per hour, and 150 tons of calcined petroleum coke per hour, a pipe conveyor will transfer the material to a hopper used for loading trucks, with emissions from the drop points controlled by a baghouse, exhausting through Stack 244. The spud hopper and the baghouse were installed in 2008 in order to accommodate the transfer of limestone and approved for modification in 2013 in order to accommodate the transfer of calcined petroleum coke. The unloading station is not considered an affected facility under 40 CFR 60, Subpart OOO when unloading and transferring limestone because it is not physically connected to the crushing/grinding operations.

(f) A coal transfer system, constructed prior to 1974, with a nominal throughput of 1,300 tons of coal per hour, consisting of the following equipment:

1. One (1) unloading station for trucks, adjacent to the 211 railcar dumper, with a drop point to an underground conveyor, with the drop point, identified as DP-1, equipped with wet suppression, and exhausting to the ambient air.

2. The 211 rail car dumper, modified in 2013, with an enclosed drop point from a fixed bottom discharge to an underground conveyor, with the drop point, identified as DP-3, equipped with wet suppression and exhausting to the ambient air.

3. One (1) 9.0 acre coal storage pile, having an estimated storage capacity of 300,000 tons, with fugitive emissions controlled by periodic watering by truck, and exhausting to the ambient air.

4. The 210H truck hopper, with a drop point on a coal storage pile identified as F-1, uncontrolled and exhausting to the ambient air.

5. Multiple unloading stations for trucks, with drop points to a coal storage pile, identified as F-1, uncontrolled and exhausting to the ambient air.

6. Enclosed conveyor (4), with a drop point to the F-1 coal pile stacking tower, uncontrolled and exhausting to the ambient air.

7. Enclosed conveyors 5 and 5A with each transfer point enclosed.

8. Nineteen (19) coal bunkers (four (4) coal bunkers per unit for units 1-3, and seven (7) for unit 4). Bunkers are loaded via a conveyor tripper system servicing Boilers No. 1, No. 2, No. 3 and No. 4. Particulate matter generated from loading bunkers is controlled by rotoclones or water sprays and exhausts to the ambient air.

9. One (1) frozen coal breaker, with maximum capacity of 650 tons per hour, constructed in 2014, the frozen coal breaker is part of a coal processing facility that includes conveying, stockpiles and crushing and equipped with wet suppression, and exhausting to the ambient air.

10. A Standby conveyor, identified as Conveyor 4A, with maximum capacity of 650 tons per hour, constructed in 2014, which transfer coal from bottom rail dumper to stockpile 210C or to the frozen coal breaker.
[Under 40 CFR 60, Subpart Y, the one (1) Standby conveyor, identified as Conveyor 4A is considered affected units]

(g) A limestone transfer and handling system were installed in 2008, with a nominal throughput of 500 tons of limestone per hour, consisting of the following equipment:

1. One (1) 1.42 acre limestone storage pile, having an estimated storage capacity of 22,000 tons, with fugitive emissions controlled by periodic watering by truck.

2. One (1) limestone hopper, receiving limestone from the stockpiles via front end loaders, emissions uncontrolled and exhausting to ambient air.

[Under 40 CFR 60, Subpart OOO, the one (1) limestone hopper is considered affected unit.]

3. One (1) enclosed pipe conveyor, transferring limestone from the limestone hopper to one (1) of the three (3) limestone day silos, emissions controlled by the limestone day silos bin vent filters.

[Under 40 CFR 60, Subpart OOO, one (1) pipe conveyor and three (3) limestone day silos are considered affected units.]

4. Three (3) limestone day silos No. 1 - No. 3, each with maximum throughput capacity of 20.0 tons per hour, each equipped with a bin vent filter for particulate control, exhausting to vents 245, 246, and 247, respectively.

[Under 40 CFR 60, Subpart OOO, three (3) limestone day silos are considered affected units.]

5. Three (3) weigh scales, each with a maximum capacity of 20.0 tons per hour, each receiving material from one of the limestone day silos and transferring limestone to one (1) of three (3) gravity discharge chutes, all emissions control by the limestone day silos' bin vent filters, and exhausting to vents 245, 246, 247.

[Under 40 CFR 60, Subpart OOO, three (3) weigh scales and three (3) gravity discharge chutes, are considered affected units.]

6. Three (3) wet ball mill crushers, receiving limestone from weigh scales via the three (3) gravity discharge chutes, the transfer point is enclosed and emissions are controlled by the limestone day silos' bin vent filters, and exhausting to vents 245, 246, and 247.

[Under 40 CFR 60, Subpart OOO, three (3) wet ball mill crushers and three (3) gravity discharge chutes are considered affected units.]

(h) One (1) dry flyash storage and loadout system, consisting of the following equipment:

1. Three (3) pneumatic conveyors with filter/separators, Units #1, #2, and #3 Pneumatic Conveyor Air Filter/Separators, were installed 2009; each of a capacity of 14.0 tons per hour, each equipped with a baghouse for particulate control, and venting to stacks 283A1, 283A2, and 283A3, respectively.

2. One (1) pneumatic conveyor with filter/separator, Unit #4 Pneumatic Conveyor Air Filter/Separator, installed in 2009; with a capacity of 30.0 tons per hour, equipped with a baghouse for particulate control, and venting to stack 283B1.
(3) One (1) intermediate silo, Units #1 - #3 Intermediate Flyash Silo installed in 2009, with a capacity of 42.0 tons per hour, equipped with a baghouse for particulate control, and exhausting to stack 283A.

(4) One (1) intermediate silo, Unit #4 Intermediate Flyash Silo installed in 2009, with a capacity of 30.0 tons per hour, equipped with a baghouse for particulate control, and exhausting to stack 283B.

(5) One (1) dry flyash storage silo, Flyash Loadout Silo installed in 2009, with a capacity of 72.0 tons per hour, equipped with a baghouse for particulate control, exhausting to stack 283C.

(i) A gypsum transfer and handling system installed in 2008, with a nominal throughput of 72 tons of gypsum per hour, consisting of the following equipment:

(1) One (1) gypsum vacuum belt press dewatering system installed in 2008, with a nominal capacity of 72 tons of gypsum per hour, emissions are uncontrolled and exhausting through vent 248 to ambient atmosphere.

(2) One (1) saturated gypsum enclosed pipe conveyor installed in 2008, with a nominal capacity of 72 tons of saturated gypsum per hour.

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 months, except if subject to 326 IAC 20-6. [326 IAC 8-3-2][326 IAC 8-3-8]

(b) Emergency generators not exceeding 1,600 hp:

(1) One (1) stationary diesel emergency generator, identified as 202, manufactured and constructed prior to July 22, 2005, rated at 201 hp.

[Under 40 CFR 63, Subpart ZZZZ, the emergency generators is considered to be affected unit.]

(2) One (1) stationary diesel emergency firewater pump engine, identified as 281, manufactured and constructed prior to July 22, 2005, rated at 460 hp.

[Under 40 CFR 63, Subpart ZZZZ, the firewater pump engines engine is considered to be affected unit.]

(c) Stationary fire pump engines:

(1) One (1) stationary diesel emergency firewater pump engine, identified as 281, manufactured on July 22, 2005, constructed in 2008, rated at 460 hp.

[Under 40 CFR 63, Subpart ZZZZ, the firewater pump engines engine is considered to be affected unit.]

(2) One (1) stationary diesel emergency firewater pump engine, identified as 203, manufactured and constructed prior to July 22, 2005, rated at 121 hp.

[Under 40 CFR 63, Subpart ZZZZ, the firewater pump engine is considered to
be affected unit.]

(d) One (1) enclosed portable limestone screw conveyor, constructed in 2014, with a maximum throughput of 60 tons per hour, using total enclosure as control, and exhausting outdoors. This portable limestone conveyor is an alternative to the limestone hopper or pipe conveyor when they are down for maintenance.

(e) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].

A.5 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 as defined in 326 IAC 2-7-1(21):

(1) Combustion source flame safety purging on startup.

(2) A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.

(3) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

(4) The following VOC and HAP storage containers:

   (A) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughput less than 12,000 gallons.
   (B) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

(5) Machining where an aqueous cutting coolant continuously floods the machine interface.

(6) Closed loop heating and cooling systems.

(7) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

(8) Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the owner/operator, that is, an onsite sewage treatment facility.

(9) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

(10) Heat exchanger cleaning and repair.

(11) Purging of gas lines and vessels that is related to routing maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

(12) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

(13) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
(14) Underground conveyors.

(15) Coal bunker and coal scale exhausts and associated dust collector vents.

(16) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

(17) On-site fire and emergency response training approved by the department.

(18) Purge double block and bleed valves

(19) Vents from ash transport systems not operated at positive pressure.

(20) A laboratory as defined in 326 IAC 2-7-1(21)(D).

(21) Asbestos abatement projects regulated by 326 IAC 14-10.

(22) One (1) Y-pit waste oil comfort space heater with a vaporizing burner and a rated heat input capacity of 0.15 MMBtu/hour, installed in 2014; providing heat for the maintenance and crew area.

(23) Various diesel engine driven pumps, each with a rated capacity of less than 500 horsepower, identified as Y-pit Pumps approved for construction in 2008, provided the total combined horsepower of all diesel engine driven pumps does not exceed 1000 horsepower, located at the Y-pit for the purpose of removing rainwater.

Pursuant to 40 CFR 1068.30, these Y-pit Pumps are considered nonroad engines.

(24) Two (2) rental diesel units that shall not exceed 775 hp each, permitted in 2008, identified as Engine1 and Engine2. Pursuant to 40 CFR 1068, the rental diesel units are considered nonroad engines. Therefore, under 40 CFR 60, Subpart III and 40 CFR 63, Subpart ZZZZ, the engines are not considered to be stationary internal combustion engines.

Note: These rental diesel units will be installed on an as-needed basis.

A.6 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).

(c) It is an affected source under Title IV (Acid Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3);
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, T173-36540-00002, 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 or of permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control).

(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. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than July 1 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) If required by specific condition(s) in Section D of this permit, 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.

(b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. 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).

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

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

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ or Southwest 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
   Southwest Regional Office phone: (812) 380-2305; fax: (812) 380-2304.

(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; and
(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 T173-36540-00002 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, except for permits issued pursuant to Title IV of the Clean Air Act and 326 IAC 21 (Acid Deposition Control)

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] [40 CFR 72]

(a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

(b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 operating permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]
(c) 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).

(d) 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)
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.

(f) This condition does not apply to emission trades of SO2 or NOX under 326 IAC 21 or 326 IAC 10-4.

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
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.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.
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 Stack Height  [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326 IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

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

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of
326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

1. When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

2. If there is a change in the following:
   - Asbestos removal or demolition start date;
   - Removal or demolition contractor; or
   - Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

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

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

(g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.
**Testing Requirements [326 IAC 2-7-6(1)]**

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

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

Indiana Department of Environmental Management  
Compliance and Enforcement Branch, Office of Air Quality  
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.9 Compliance Requirements [326 IAC 2-1.1-11]**

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

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

**C.10 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)][40 CFR 64][326 IAC 3-8]**

(a) For new units:  
Unless otherwise specified in the approval for the new emission unit(s), compliance monitoring for new emission units shall be implemented on and after the date of initial start-up.

(b) For existing units:  
Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance to begin such monitoring. If, due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:
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) For monitoring required by CAM, at all times, the Permittee shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

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

C.11 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.12 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 prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
no later than ninety (90) days after the date of issuance of this permit.

The ERP 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) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 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.14 Response to Excursions or Exceedances [40 CFR 64][326 IAC 3-8][326 IAC 2-7-5][326 IAC 2-7-6]

(l) Upon detecting an excursion where a response step is required by the D Section, or an exceedance of a limitation, not subject to CAM, in this permit:

(a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:

(1) initial inspection and evaluation;
(2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
(3) any necessary follow-up actions to return operation to normal or usual manner of operation.

(c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

(1) monitoring results;
(2) review of operation and maintenance procedures and records; and/or
(3) inspection of the control device, associated capture system, and the process.

(d) Failure to take reasonable response steps shall be considered a deviation from the permit.

(e) The Permittee shall record the reasonable response steps taken.

(II) CAM Response to excursions or exceedances.

(a) Upon detecting an excursion or exceedance, subject to CAM, the Permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.

(b) Determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

(b) If the Permittee identifies a failure to achieve compliance with an emission limitation, subject to CAM, or standard, subject to CAM, for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the IDEM, OAQ and, if necessary, submit a proposed significant permit modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(c) Based on the results of a determination made under paragraph (II)(a)(2) of this condition, the EPA or IDEM, OAQ may require the Permittee to develop and implement a Quality Improvement Plan (QIP). The Permittee shall develop and implement a QIP if notified to in writing by the EPA or IDEM, OAQ.

(d) Elements of a QIP:
   The Permittee shall maintain a written QIP, if required, and have it available for inspection. The plan shall conform to 40 CFR 64.8 b (2).

(e) If a QIP is required, the Permittee shall develop and implement a QIP as expeditiously as practicable and shall notify the IDEM, OAQ if the period for
completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(f) Following implementation of a QIP, upon any subsequent determination pursuant to paragraph (II)(c) of this condition the EPA or the IDEM, OAQ may require that the Permittee make reasonable changes to the QIP if the QIP is found to have:

(1) Failed to address the cause of the control device performance problems; or

(2) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(g) Implementation of a QIP shall not excuse the Permittee from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

(h) CAM recordkeeping requirements.

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

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

C.15 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.16 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

1. Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
2. Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(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.17 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(yy)) 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(yy)) 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.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3] [40 CFR 64][326 IAC 3-8]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Proper notice submittal under Section B –Emergency Provisions 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.

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

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

(1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and

(3) A description of the actions taken to implement a QIP during the reporting period as specified in Section C - Response to Excursions or Exceedances. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

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

(b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
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.19 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.
SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS  
Four (4) Coal-Fired Boilers: (Boiler No. 1, Boiler No. 2, Boiler No. 3 & Boiler No. 4)

<table>
<thead>
<tr>
<th>Emissions Unit Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced on July 26, 1956, with an on-line date of April 1960, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-1, which is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 1 was configured with a low NOx burner and over-fire air in 2003. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 1 were installed in 2008.</td>
</tr>
<tr>
<td>Note: Boiler No. 1 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).</td>
</tr>
<tr>
<td>Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility.</td>
</tr>
<tr>
<td>[Under NESHAP Subpart DDDDD, this unit is part of an affected source.]</td>
</tr>
<tr>
<td>(b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced on July 26, 1956, with an on-line date of January 1964, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-2, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 2 was configured with a low NOx burner and over-fire air in 2004. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 2 were installed in 2008.</td>
</tr>
<tr>
<td>Note: Boiler No. 2 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).</td>
</tr>
<tr>
<td>Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility.</td>
</tr>
<tr>
<td>[Under NESHAP Subpart DDDDD, this unit is part of an affected source.]</td>
</tr>
<tr>
<td>(c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced on July 26, 1956, with an on-line date of October 1965, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-3, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 3 was configured with a low NOx burner and over-fire air in 2002. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 3 were installed in 2008.</td>
</tr>
<tr>
<td>Note: Boiler No. 3 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).</td>
</tr>
</tbody>
</table>
Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility.

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]

One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced on March 16, 1968, with an electrostatic precipitator (ESP) for control of particulate matter. Boiler No. 4 was configured with a low NOx burner in 1998, a Selective Catalytic Reduction (SCR) system permitted and constructed in 2004, a wet FGD scrubber, which commenced operation in 2008, and a reagent injection system that will reduce sulfuric acid emissions exiting the SCR, constructed in 2009. Boiler No. 4 has a nominal heat input capacity of 2,958 MMBtu/hr, and vents to Stack 243, which has continuous emissions monitors (CEMs) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), mercury (Hg, sorbent tube traps), particulate matter (PM) and sulfur dioxide (SO2). Boiler No. 4 has a natural gas burner for start-up and may be fired in conjunction with the coal-fired capability. Construction of a dedicated wet limestone slurry absorber scrubber began in 2005.

[Under NESHAP Subpart UUUUU, this unit is part of an affected source.]

(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 Limits [326 IAC 2-2]

In order to render PSD (Prevention of Significant Deterioration) not applicable, the following shall apply:

(a) The PM emissions limits for Boilers No. 1, No. 2, No. 3 and No. 4

(1) The PM emissions from Boilers No. 1, No. 2, and No. 3, combined, shall not exceed 1060.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) The PM emissions from Boiler No. 4 shall not exceed 1425.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The PM emissions from Boilers No. 1, No. 2, No. 3 and No. 4 shall be determined by PM-CEMS output, determined on a 24 hour average.

Compliance with the above PM limits and Condition D.2.2 shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to Significant Source Modifications No. 173-22006-00002.

(b) The NOx emissions from Boilers No. 1, No. 2, No. 3 and Boiler No. 4, combined, shall not exceed 13,720.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the above NOx limit, shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the Significant Source Modification No.: 173-22006-00002.

(c) The H2SO4 emissions from Boilers No. 1, No. 2, No. 3, and Boiler No. 4, combined, shall be less than 677.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month and the H2SO4 emissions from Boilers No. 1, No. 2,
and No. 3, shall be a value established during the latest compliant stack test for the respective boiler. The following equation shall be utilized to determine compliance:

\[
\text{H}_2\text{SO}_4 \text{ emissions} = \left[ (\text{H}_2\text{SO}_4 \text{ E.F. No. 1} \times \text{H.E. No. 1}) + (\text{H}_2\text{SO}_4 \text{ E.F. No. 2} \times \text{H.E. No. 2}) + (\text{H}_2\text{SO}_4 \text{ E.F. No. 3} \times \text{H.E. No. 3}) + (\text{H}_2\text{SO}_4 \text{ E.F. No. 4} \times \text{H.E. No. 4}) + (\text{H}_2\text{SO}_4 \text{ SCR E.F. No. 4} \times \text{SCR H.E. No. 4}) \right] + (\text{H}_2\text{SO}_4 \text{ SCR reduced 1 E.F} \times \text{H.E. No. 4 SCR reduced 1}) + (\text{H}_2\text{SO}_4 \text{ SCR reduced n E.F} \times \text{H.E. No. 4 reduced n})] / 2000 \text{ lb/ton}
\]

Where:

- \(\text{H}_2\text{SO}_4 \text{ E.F. No. 1} = \text{lb H}_2\text{SO}_4/\text{MMBtu} \text{ heat input to Boiler No. 1 established during the latest compliance stack test.}\)
- \(\text{H}_2\text{SO}_4 \text{ E.F. No. 2} = \text{lb H}_2\text{SO}_4/\text{MMBtu} \text{ heat input to Boiler No. 2 established during the latest compliance stack test.}\)
- \(\text{H}_2\text{SO}_4 \text{ E.F. No. 3} = \text{lb H}_2\text{SO}_4/\text{MMBtu} \text{ heat input to Boiler No. 3 established during the latest compliance stack test.}\)
- \(\text{H}_2\text{SO}_4 \text{ E.F. No. 4} = \text{lb H}_2\text{SO}_4/\text{MMBtu} \text{ heat input to Boiler No. 4 established during the latest compliance stack test when the reagent injection system and the SCR are not in operation}\)
- \(\text{H}_2\text{SO}_4 \text{ SCR E.F. No. 4} = \text{lb H}_2\text{SO}_4/\text{MMBtu} \text{ heat input to Boiler No. 4 when the SCR is in operation but the reagent injection system is not in operation = a value established during the latest compliance stack test for this operating condition.}\)
- \(\text{H}_2\text{SO}_4 \text{ SCR Reduced 1 E.F. No. 4} = \text{lb H}_2\text{SO}_4/\text{MMBtu} \text{ heat input to Boiler No. 4 when the reagent injection system and SCR are in operation, based on the first reagent injection rate-identified in the compliance test protocol and established during the most recent reagent injection compliance tests.}\)
- \(\text{H}_2\text{SO}_4 \text{ SCR Reduced n E.F. No. 4} = \text{lb H}_2\text{SO}_4/\text{MMBtu} \text{ heat input to Boiler No. 4 when the reagent injection system and SCR are in operation, based on each subsequent reagent injection rate identified in the compliance test protocol and established during the most recent reagent injection compliance tests.}\)

- \(\text{H.E. No. 1} = \text{Heat Input (MMBtu) to Boiler No. 1}\)
- \(\text{H.E. No. 2} = \text{Heat Input (MMBtu) to Boiler No. 2}\)
- \(\text{H.E. No. 3} = \text{Heat Input (MMBtu) to Boiler No. 3}\)
- \(\text{H.E. No. 4} = \text{Heat Input (MMBtu) to Boiler No. 4 when the reagent injection system and SCR are not in operation}\)
- \(\text{H.E. SCR No. 4} = \text{Heat Input (MMBtu) to Boiler No. 4 when the reagent injection system is not operating but the SCR is operating}\)
- \(\text{H.E. SCR No. 4 Reduced 1} = \text{Heat Input (MMBtu) to Boiler No. 4 when the reagent injection system is operating at the first injection rate established during the most recent reagent injection compliance tests and the SCR is operating.}\)
H.E. SCR No. 4 Reduced \( n = \) Heat Input (MMBtu) to Boiler No. 4 when the reagent injection system is operating at each subsequent injection rate established during the most recent reagent injection compliance tests and the SCR is operating.

Compliance with the above H\(_2\)SO\(_4\) limits shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to Significant Source Modifications No.: 173-22006-00002.

(d) The PM\(_{10}\) emissions from Boilers No. 1, No. 2, and No. 3, and Boiler No. 4, combined, shall not exceed 4490.00 tons per twelve (12) consecutive month period with compliance determined at the end of each month and the PM\(_{10}\) emissions from Boilers No. 1, No. 2, No. 3 and No. 4 shall be a value established during the latest compliant stack test for the respective boiler. The following equation shall be utilized to determine compliance:

\[
\text{PM}_{10} \text{ emissions} = [(\text{PM}_{10} \text{ E.F. No. 1} \times \text{H.E. No. 1}) + (\text{PM}_{10} \text{ E.F. No. 2} \times \text{H.E. No. 2}) + (\text{PM}_{10} \text{ E.F. No. 3} \times \text{H.E. No. 3}) + (\text{PM}_{10} \text{ E.F. No. 4} \times \text{H.E. No. 4})]
\]

Where:

\[
\begin{align*}
\text{PM}_{10} \text{ E.F. No. 1} &= \text{lb PM}_{10}/\text{MMBtu} \text{ heat input to Boiler No. 1 established during the latest compliance stack test for this operating condition.} \\
\text{PM}_{10} \text{ E.F. No. 2} &= \text{lb PM}_{10}/\text{MMBtu} \text{ heat input to Boiler No. 2 established during the latest compliance stack test for this operating condition} \\
\text{PM}_{10} \text{ E.F. No. 3} &= \text{lb PM}_{10}/\text{MMBtu} \text{ heat input to Boiler No. 3 established during the latest compliance stack test for this operating condition} \\
\text{PM}_{10} \text{ E.F. No. 4} &= \text{lb PM}_{10}/\text{MMBtu} \text{ heat input to Boiler No. 4 established during the latest compliance stack test when the SCR is not in operation} \\
\text{H.E. No. 1} &= \text{Heat Input (MMBtu) to Boiler No. 1} \\
\text{H.E. No. 2} &= \text{Heat Input (MMBtu) to Boiler No. 2} \\
\text{H.E. No. 3} &= \text{Heat Input (MMBtu) to Boiler No. 3} \\
\text{H.E. No. 4} &= \text{Heat Input (MMBtu) to Boiler No. 4 when the SCR is not in operation}
\end{align*}
\]

Compliance with the above PM\(_{10}\) limit and Condition D.2.2 shall render the requirements of [326 IAC 2-2] (Prevention of Significant Deterioration (PSD)) not applicable to Significant Source Modifications No.: 173-22006-00002.

D.1.2 Emission Offset Minor Limits for PM2.5 [326 IAC 2-3]

The PM2.5 emissions from Boilers No. 1, No. 2, No. 3, and Boiler No. 4, combined, shall not exceed 4490.00 tons per twelve (12) consecutive month period with compliance determined at the end of each month and the PM2.5 emissions from Boilers No. 1, No. 2, No. 3 and No. 4 shall be a value established during the latest compliant stack test for the respective boiler. The following equation shall be utilized to determine compliance:

\[
\text{PM}_{2.5} \text{ emissions} = [(\text{PM}_{2.5} \text{ E.F. No. 1} \times \text{H.E. No. 1}) + (\text{PM}_{2.5} \text{ E.F. No. 2} \times \text{H.E. No. 2}) + (\text{PM}_{2.5} \text{ E.F. No. 3} \times \text{H.E. No. 3}) + (\text{PM}_{2.5} \text{ E.F. No. 4} \times \text{H.E. No. 4})]
\]

Where:

\[
\begin{align*}
\text{PM}_{2.5} \text{ E.F. No. 1} &= \text{lb PM}_{2.5}/\text{MMBtu} \text{ heat input to Boiler No. 1 established during the}
\end{align*}
\]
latest compliance stack test

PM\textsubscript{2.5} E.F. No. 2 = lb PM\textsubscript{2.5}/MMBtu heat input to Boiler No. 2 established during the latest compliance stack test

PM\textsubscript{2.5} E.F. No. 3 = lb PM\textsubscript{2.5}/MMBtu heat input to Boiler No. 3 established during the latest compliance stack test

PM\textsubscript{2.5} E.F. No. 4 = lb PM\textsubscript{2.5}/MMBtu heat input to Boiler No. 4 established during the latest compliance stack test when the SCR is not in operation

H.E. No. 1 = Heat Input (MMBtu) to Boiler No. 1
H.E. No. 2 = Heat Input (MMBtu) to Boiler No. 2
H.E. No. 3 = Heat Input (MMBtu) to Boiler No. 3
H.E. No. 4 = Heat Input (MMBtu) to Boiler No. 4 when the SCR is not in operation

Compliance with the above PM\textsubscript{2.5} limits and Condition D.2.3 shall render the requirements of 326 IAC 2-3 (Emission Offset) not applicable to Significant Source Modifications No.: 173-22006-00002.

D.1.3 Best Available Retrofit Technology Emission Limitations [326 IAC 26-2-1]

Except as allowed by an effective variance issued from the Indiana Department of Environmental Management, Office of Air Quality, pursuant to 326 IAC 26-2-2, the allowable emissions from Boiler Nos. 1, 2, 3 and 4 shall be as follows:

(a) Boiler Nos. 1, 2 and 3 shall operate in accordance with the specified NO\textsubscript{x} emission limitations, on a pound per million Btu basis, calculated on a twenty-four (24) hour daily average:
   (1) Boiler No. 1: 0.38 lb/MMBtu
   (2) Boiler No. 2: 0.38 lb/MMBtu
   (3) Boiler No. 3: 0.38 lb/MMBtu

(b) Boiler Nos. 1, 2 and 3 shall operate in accordance with the specified SO\textsubscript{2} removal efficiencies, calculated on a twenty-four (24) hour daily average:
   (1) Boiler No. 1: 91%
   (2) Boiler No. 2: 90%
   (3) Boiler No. 3: 90%

(c) Boiler Nos. 1, 2, 3 and 4 shall operate in accordance with the specified PM (filterable) emission limitations, on a pound per million Btu basis, calculated on a twenty-four (24) hour daily average:
   (1) Boiler No. 1: 0.03 lb/MMBtu
   (2) Boiler No. 2: 0.03 lb/MMBtu
   (3) Boiler No. 3: 0.03 lb/MMBtu
   (4) Boiler No. 4: 0.1 lb/MMBtu

D.1.4 Pollution Control Project (PCP) [326 IAC 2-2]

Pursuant to Significant Source Modification 173-18485-00002 issued on April 8, 2004, and in order to render PSD (Prevention of Significant Deterioration) not applicable, the following applies:

(a) Pursuant to 326 IAC 2-2.5, the installation and operation of the selective catalytic reduction (SCR) for Boiler No. 4 is considered a pollution control project because of the expected decrease in NO\textsubscript{x} emissions.
(b) The expected emissions increase of sulfuric acid (H$_2$SO$_4$) from this pollution control project is exempted from the 326 IAC 2-2 PSD requirements.

(c) This pollution control project does not revise the existing applicable limitations and requirements already specified in the PSD permit 173-2087-00002, issued on December 9, 1991 for Boiler No. 4.

D.1.5 Sulfur Dioxide (SO$_2$) [326 IAC 7-4-10]

Pursuant to 326 IAC 7-4-10 (Warrick County Sulfur Dioxide Emission Limitations), the SO$_2$ emissions from Boilers No. 1, No. 2, No. 3 and No. 4 each shall not exceed 5.11 pounds per million Btu (lbs/MMBtu).

D.1.6 Carbon Monoxide (CO) Limitation [326 IAC 2-2]

Pursuant to 326 IAC 2-2 (PSD):

The combined carbon monoxide (CO) emissions from Boilers No. 1, No. 2, and No. 3, exhausted through Stacks 241-1, 241-2, and 241-3 shall not exceed 2099.80 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the above CO limit shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 2002 Modification.

D.1.7 Prevention of Significant Deterioration (PSD) Minor Limits for Sulfur Dioxide [326 IAC 2-2]

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

The sulfur dioxide emissions from Boilers No. 1, No. 2, No. 3 and No. 4 shall not exceed a total of 157,206 tons per twelve (12) consecutive month period with compliance determined at the end of each month, equivalent to a total of 79,074 tons of sulfur input per year, based on 365 consecutive day weighted average:

(b) The SO$_2$ emissions from Boiler No. 4 shall not exceed 181.2 tons per day with compliance determined at the end of each day.

(c) The SO$_2$ emissions from Boilers No. 1, No. 2, and No. 3 shall not exceed a total of 249.5 tons per day with compliance determined at the end of each day.

Compliance with the above SO$_2$ limits shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the 1991 Modification.

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

D.1.8 Testing Requirements [326 IAC 2-1.1-11]

(a) By December 31 of the calendar year following the most recent stack test, compliance with the H$_2$SO$_4$ limitations in Condition D.1.1(c) for Boilers No. 1, No. 2 and No. 3 shall be determined by a performance stack test conducted using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every fifth calendar year following this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures).

(b) By December 31 of the calendar year following the most recent stack test, compliance with the PM$_{10}$ limitations in Condition D.1.1(d) for Boilers No. 1, No. 2, No. 3 and No. 4 shall be determined by a performance stack test conducted using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every second calendar year following this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures).
(c) By December 31 of the calendar year following the most recent stack test, compliance with the PM2.5 limitations in Condition D.1.2 for Boilers No. 1, No. 2, No. 3 and No. 4 shall be determined by a performance stack test conducted using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every second calendar year following this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures).

(d) In order to demonstrate compliance with the H2SO4 limitations while the SCR was in operation but the reagent injection system was not operating in Condition D.1.1(c) for Boiler No. 4 shall be determined by a performance stack test conducted using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every fifth calendar year following the valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(e) In order to demonstrate compliance with the H2SO4 limitations while the SCR and reagent injection system were in operation in Condition D.1.1(c) for Boiler No. 4 shall be determined by a performance stack test conducted using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every fifth calendar year following the valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(f) In order to demonstrate compliance with the H2SO4 limitations while the SCR was not operating in Condition D.1.1(c) for Boiler No. 4 for the SCR not-operating mode condition shall be determined by a performance stack test during a scheduled outage of the SCR conducted using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every fifth calendar year following this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(g) By December 31 of the second calendar year following the most recent stack test for the SCR not-operating mode condition, compliance with the PM10 and PM2.5 limitations in Condition D.1.1 (d) and Condition D.1.2 for Boiler No. 4 shall be determined by a performance stack test during the first scheduled outage of the SCR conducted using methods as approved by the Commissioner. This testing shall be repeated by December 31 of every second calendar year following this valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

(h) Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.

In order to simplify PM10 and PM2.5 compliance calculations, all Boiler No. 4 compliance calculations shall be based solely on the SCR not operating emission factors.

D.1.9 Operation of Electrostatic Precipitator

Except as otherwise provided by statute or rule or in this permit, the electrostatic precipitator shall be operated at all times that Boiler No. 1, Boiler No. 2, Boiler No. 3 and Boiler No. 4 are vented to the respective ESP’s.
D.1.10 Operation of Wet Scrubbers (VOC)

Except as otherwise provided by statute or rule in this permit, the dedicated wet scrubber for Boiler No. 1, Boiler No. 2, Boiler No. 3, and Boiler No. 4 shall be in operation and control SO₂ and H₂SO₄ emissions from Boiler No. 1, Boiler No. 2, Boiler No. 3, and Boiler No. 4 at all times that the boiler is in operation.

D.1.11 Continuous Emissions Monitoring [326 IAC 3-5]

(a) Pursuant to 326 IAC 3-5 (Continuous Monitoring of Emissions), the Permittee shall comply with the following:

(1) Continuous emission monitoring systems for Boiler No. 1, Boiler No. 2, Boiler No. 3 and Boiler No. 4 shall be calibrated, maintained, and operated for measuring SO₂, NOₓ, and O₂ or CO₂.

(2) The dedicated wet scrubbers for Boiler No. 1, Boiler No. 2, and Boiler No. 3 continuous emissions monitoring systems shall be calibrated, maintained, and operated for measuring SO₂ at the inlet of each scrubber.

(3) Whenever a NOₓ CEM is down for more than twenty-four (24) hours, the Permittee shall apply the data substitution procedures specified by 40 CFR Part 75.

(4) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to 326 IAC 3-5 or 40 CFR 75.

(b) The Permittee shall comply with the following for Boiler No. 1, Boiler No. 2, and Boiler No. 3 and Boiler No. 4, following certification, as specified by 40 CFR 60, Appendix B, Performance Specification 11, and Appendix F, Performance specification 2:

(1) PM compliance will be demonstrated by the associated PM CEMS;

(2) Upon successful completion of the certification of the PM CEMS, the Petitioner shall submit all required information to the IDEM Office of Air Quality;

(3) Installation, operation, testing, monitoring, data reporting, data substitution, and other requirements for the PM CEMS for Boiler No.1, Boiler No. 2, and Boiler No. 3 shall be determined by NSPS, 40 CFR Part 60, Subpart Db and 326 IAC 3-5 (Continuous Monitoring of Emissions).

(4) Installation, operation, testing, monitoring, data reporting, data substitution, and other requirements for the PM CEMS for Boiler No.4 shall be determined by 40 CFR Part 60, Appendix B, Performance Specification 11, Appendix F, Performance Specification No. 2 and 326 IAC 3-5 (Continuous Monitoring of Emissions).

(c) All continuous emission monitoring systems are subject to monitor system certification requirements pursuant to 326 IAC 3-5-3, and shall meet all applicable performance specifications of 326 IAC 3-5-2.

(d) The PM emissions from Boilers No. 1, No. 2, No. 3 and No. 4 in Condition D.1.3 (c) shall be determined by PM-CEMS output, determined on a 24 hour average.
D.1.12 Carbon Monoxide (CO) Calculations [326 IAC 2-2]

To determine the compliance status with Condition D.1.6, the following equation shall be used to determine the CO emissions from Boilers No. 1, No. 2, and No. 3:

The CO emissions shall be determined as follows:

\[
\text{CO emissions tons per month} = \frac{[(\text{CO Em. No. 1}) + (\text{CO Em. No. 2}) + (\text{CO Em. No. 3})]}{2000}
\]

Where:

- \( \text{CO Em. No. 1} \) = (CO emissions from Boiler 1 in lbs. /mo. from CO CEMs Data)
- \( \text{CO Em. No. 2} \) = (CO emissions from Boiler 2 in lbs. /mo. from CO CEMs Data)
- \( \text{CO Em. No. 3} \) = (CO emissions from Boiler 3 in lbs. /mo. from CO CEMs Data)

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

D.1.13 Transformer-Rectifier (T-R) Sets

(a) The ability of the ESP for Boiler No. 4 to control particulate emissions shall be monitored once per day, when the unit is in operation, by measuring and recording the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets.

(b) Reasonable response steps shall be taken whenever the percentage of T-R sets in service falls below ninety percent (90%). Section C – Response to Excursions and Exceedances contains the Permittee’s obligation with regard to the reasonable response steps required by this condition. T-R set failure resulting in less than ninety percent (90%) availability is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

D.1.14 Wet Scrubbers

In order to demonstrate the compliance status with Condition D.1.3 - Best Available Retrofit Technology Emission Limitations, for each of the dedicated wet scrubbers for Boiler No. 1, No. 2, and No. 3, the Permittee shall continuously monitor and determine SO2 emissions reduction by SO2 CEMS. Whenever the SO2 reduction falls below ninety percent (90%), the Permittee shall take response steps. Section C – Response to Excursions and Exceedances contains the Permittee’s obligation with regard to the reasonable response steps required by this condition. A SO2 emissions reduction of less than ninety percent (90%) is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Compliance with this percent SO2 reduction requirement will be determined on a twenty-four (24) hour daily (block) average.

D.1.15 SO2 Monitoring System Downtime

The following shall apply to the wet scrubbers for Boiler No. 1, Boiler No. 2, Boiler No. 3, and Boiler No. 4 respectively. At any time the wet scrubber for Boiler No. 1, Boiler No. 2, Boiler No. 3, and Boiler No. 4 is operating, if the respective SO2 continuous emission monitoring system (CEMS) is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more,

(a) Whenever the SO2-CEMS is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall comply with the following for Boiler No. 4:
(1) Monitor and record the pH of the scrubbing liquid, scrubber liquid inlet rate as measured by pump amperage, and exhaust air flow rate of the wet scrubber at least twice per day until the primary CEMS or backup CEMS is brought online.

(b) Actual fuel usage during each SO2 CEMs downtime shall be recorded during the full duration of each downtime event for Boiler No. 4.

(c) Whenever a SO2-CEMS is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall comply with the following for Boiler No. 1, 2, and 3:

(1) Prior to the performance of the initial compliance test for mercury:

A. The Permittee shall monitor and record the pH of the scrubbing liquid, scrubber liquid inlet rate as measured by pump amperage, and exhaust air flow rate of the wet scrubber at least twice per day until the primary CEMS or a back-up CEMS is brought on-line.

Commencing upon submittal of the initial compliance test report for mercury:

B. The Permittee shall monitor scrubber liquid flow and pressure drop as described in the monitoring plan prepared. The permittee shall also record recirculation pH and exhaust air flow rate at least twice per day until the primary CEMS or a back-up CEMS is brought on-line.

(d) Actual fuel usage during each SO2 CEMs downtime shall be recorded during the full duration of each downtime event for Boilers No. 1, 2, and 3.

D.1.16 Particulate (PM) Monitoring System Downtime

For Boiler No. 1, Boiler No. 2, and Boiler No. 3, and Boiler No. 4, the following shall be used to provide information related to particulate emissions:

(a) In the event that a breakdown of a PM-CEMS occurs, a record shall be made of the time and reason of the breakdown and efforts made to correct the problem.

(b) If a PM-CEMS is down for less than twenty-four (24) hours, the Permittee shall substitute an average of the quality-assured data from the hour immediately before and the hour immediately after the missing data period for each hour of missing data.

(c) Whenever a PM-CEMS is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall comply with the following for Boiler No. 4:

(1) Monitor and record the pH of the scrubbing liquid, scrubber liquid inlet rate as measured by pump amperage, and exhaust air flow rate of the wet scrubber.

(2) Measure and record the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets of the ESP.

(3) Wet scrubber and T-R parametric monitoring readings shall be recorded at least twice per day until the primary CEMS or backup CEMS is brought online.

(d) Whenever a PM-CEMS is malfunctioning or down for repairs or adjustments for twenty-four (24) hours or more, the Permittee shall comply with the following for Boiler No. 1, 2, and 3:
(1) Prior to the performance of the initial compliance test for mercury:

A. The Permittee shall monitor and record the pH of the scrubbing liquid, scrubber liquid inlet rate as measured by pump amperage, and exhaust air flow rate of the wet scrubber at least twice per day until the primary CEMS or a back-up CEMS is brought on-line.

Commencing upon submittal of the initial compliance test report for mercury:

B. The Permittee shall monitor scrubber liquid flow and pressure drop as described in the monitoring plan prepared. The permittee shall also record recirculation pH and exhaust air flow rate at least twice per day until the primary CEMS or a back-up CEMS is brought on-line.

(2) Prior to the performance of the initial compliance test for mercury:

A. The Permittee shall measure and record the number of T-R sets in service and the primary and secondary voltages and the currents of the T-R sets of the ESP at least twice per day until the primary CEMS or a back-up CEMS is brought on-line.

Commencing upon submittal of the initial compliance test report for mercury:

B. The Permittee shall monitor electrostatic precipitator secondary power input as described in the monitoring plan.

D.1.17 Compliance Assurance Monitoring (CAM) [40 CFR 64]

Pursuant to 40 CFR Part 64, the Permittee shall comply with the following Compliance Assurance Monitoring requirements for the wet scrubbers and the electrostatic precipitators controlling Boiler No. 1, Boiler No. 2, and Boiler No. 3:

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>INDICATOR NO. 1</th>
<th>INDICATOR NO. 2</th>
<th>INDICATOR NO. 3</th>
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</thead>
<tbody>
<tr>
<td>I. Indicator Measurement Approach</td>
<td>PM10 and PM2.5 Emission Rate</td>
<td>Proper Operation of Scrubbers</td>
<td>Proper Operation of Electrostatic Precipitators (ESP)</td>
</tr>
<tr>
<td></td>
<td>Test methods approved by the Commissioner, Scrubbers, and ESPs, measured at the exhaust stacks</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), PM-CEMS and maintenance of minimum scrubber liquid inlet rate measured with pump amperage. Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), PM-CEMS and operation of the scrubbers as specified in the approved monitoring plan prepared pursuant to 40 CFR 63.7525 (e) and (f).</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e): i. # of T-R sets in operation ii. primary &amp; secondary voltages iii. currents of T-R sets Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), PM-CEMS and operation of the electrostatic precipitators as specified in the approved monitoring plan prepared pursuant to 40 CFR 63.7525 (h).</td>
</tr>
<tr>
<td>II. Indicator Range</td>
<td>an excursion is defined as being outside the following: PM2.5 and PM10 emissions in excess of Conditions D.1.1(d) and D.1.2</td>
<td>Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), PM-CEMS and operation of the scrubbers as specified in the approved</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e): an excursion is defined as being outside the following:</td>
</tr>
</tbody>
</table>
monitoring plan prepared pursuant to 40 CFR 63.7525 (e) and (f).

i. # of T-R sets in service shall be > 90%

Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), PM-CEMS and operation of the electrostatic precipitators as specified in the approved monitoring plan prepared pursuant to 40 CFR 63.7525 (h).

III. Performance Criteria

Pursuant to 40 CFR 60, Subpart Db
Pursuant to 40 CFR 63, Subpart D

A. Data Representativeness
Test methods as approved by Commissioner
Pursuant to 40 CFR 60, Subpart Db
Pursuant to 40 CFR 63, Subpart D

B. Verification of Operational Status
N/A
N/A
N/A

Monitoring Approach for PM10 and PM2.5 Emissions from Boiler No. 1, Boiler No. 2, and Boiler No. 3

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<thead>
<tr>
<th>PARAMETER</th>
<th>INDICATOR NO. 1</th>
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</tr>
</thead>
<tbody>
<tr>
<td>C. QA/ QC Practices and Criteria</td>
<td>Test methods as approved by Commissioner</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), PM-CEMS per manufacturer recommendations</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), electrostatic precipitator current and voltage monitoring data per manufacturer recommendations Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), PM-CEMS and operation of the scrubbers as specified in the approved monitoring plans prepared pursuant to 40 CFR 63.7525(d) and 40 CFR 63.7525(h)</td>
</tr>
<tr>
<td>D. Monitoring Frequency</td>
<td>Once every 2 years</td>
<td>Continuous via the PM-CEMS</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), Scrubbers and electrostatic precipitators operating parameters, once per day when operating Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), continuous pursuant to the monitoring plans submitted pursuant to 40 CFR 63.7525(e),(f), and (h)</td>
</tr>
<tr>
<td>E. Data Collection Procedure</td>
<td>Test methods as approved by Commissioner</td>
<td>Continuous emissions data acquisition system</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), Scrubbers and electrostatic precipitators operating parameters Daily observations are recorded in log Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), continuous pursuant</td>
</tr>
</tbody>
</table>
### Monitoring Approach for Sulfuric Acid Mist Emissions from Boiler No. 1, Boiler No. 2, and Boiler No. 3

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>INDICATOR NO. 1</th>
<th>INDICATOR NO. 2</th>
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</tr>
</thead>
<tbody>
<tr>
<td>I. Indicator Measurement Approach</td>
<td>Sulfuric Acid Mist Emission Rate</td>
<td>Proper Operation of Scrubbers</td>
<td>Proper Operation of Electrostatic Precipitators (ESP)</td>
</tr>
<tr>
<td></td>
<td>Test methods approved by the Commissioner, Scrubbers, and ESPs, measured at the exhaust stacks</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), operation of the scrubbers as specified in the approved monitoring plan prepared pursuant to 40 CFR 63.7525(e) and (f).</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e): i. # of T-R sets in operation ii. primary &amp; secondary voltages iii. currents of T-R sets Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), PM-CEMS and operation of the electrostatic precipitators as specified in the approved monitoring plan prepared pursuant to 40 CFR 63.7525(h).</td>
</tr>
<tr>
<td>II. Indicator Range</td>
<td>An excursion is defined as sulfuric acid mist emissions in excess of Condition D.1.1(c)</td>
<td>Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), operation of the scrubbers as specified in the approved monitoring plan prepared pursuant to 40 CFR 63.7525(e) and (f).</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e): an excursion is defined as being outside the following: i. # of T-R sets in service shall be &gt; 90% Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), PM-CEMS and operation of the electrostatic precipitators as specified in the approved monitoring plan prepared pursuant to 40 CFR 63.7525(h).</td>
</tr>
<tr>
<td>III. Performance Criteria</td>
<td>Pursuant to 40 CFR 60, Subpart DDDDD</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>A. Data Representativeness</td>
<td>Test methods as approved by the Commissioner</td>
<td>Pursuant to 40 CFR 63, Subpart DDDDD</td>
<td>Pursuant to 40 CFR 63, Subpart DDDDD</td>
</tr>
<tr>
<td>B. Verification of Operational Status</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>C. QA/QC Practices and Criteria</td>
<td>Test methods as approved by the Commissioner</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), liquid inlet rate measured with pump amperage per Instrument Specifications of Section C of permit, gas flow per 40 CFR 75 RATA requirements Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), operation of the</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), electrostatic precipitator current and voltage monitoring data per manufacturer recommendations. Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), PM-CEMS and operation of the scrubbers as specified in the approved monitoring plans prepared pursuant to 40 CFR 63.7505(d) and 40 CFR 63.7525(h).</td>
</tr>
</tbody>
</table>
scrubbers as specified in the approved monitoring plans prepared pursuant to 40 CFR 63.7505(d) and 40 CFR 63.7525 (e) and (f).

### Monitoring Approach for Sulfuric Acid Mist Emissions from Boiler No. 1, Boiler No. 2, and Boiler No. 3

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<thead>
<tr>
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<th>INDICATOR NO. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. Monitoring Frequency</td>
<td>Once every 5 years</td>
<td>Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), scrubbers and electrostatic precipitators operating parameters, once per day when operating, and upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), continuous pursuant to the monitoring plans submitted pursuant to 40 CFR 63.7525(e),(f), and (h)</td>
<td>--</td>
</tr>
</tbody>
</table>

### IV. Data Collection Procedure

Test methods as approved by Commissioner

Prior to the initial mercury compliance test specified by 40 CFR 63.7510(e), Scrubbers and electrostatic precipitators operating parameters daily observations are recorded in log Upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e), continuous pursuant to the monitoring plans submitted pursuant to 40 CFR 63.7525(e),(f), and (h)

<table>
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</thead>
<tbody>
<tr>
<td>Averaging Period</td>
<td>Test methods as approved by Commissioner</td>
<td>Sulfuric acid mist emissions calculated monthly for comparison to the annual emissions limit</td>
<td>Scrubber liquid input and pressure drop and electrostatic precipitator secondary power, continuous, 30-day rolling average basis, upon completion of the initial compliance tests for mercury specified by 40 CFR 63.7510(e).</td>
</tr>
</tbody>
</table>

Pursuant to 40 CFR Part 64, the Permittee shall comply with the following Compliance Assurance Monitoring requirements for the electrostatic precipitator controlling Boiler No. 4:

### Monitoring Approach for PM10 and PM2.5 Emissions from Boiler No. 4

<table>
<thead>
<tr>
<th>PARAMETER</th>
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</thead>
<tbody>
<tr>
<td>I. Indicator Measurement Approach</td>
<td>PM10 and PM2.5 Emission Rate</td>
<td>PM CEMS</td>
<td>Proper Operation of Electrostatic Precipitator (ESP) and scrubber</td>
</tr>
<tr>
<td></td>
<td>Test methods approved by the Commissioner, Scrubber, and ESP, measured at the exhaust stack</td>
<td>PM-CEMS and maintenance of minimum scrubber liquid inlet rate measured with pump amperage</td>
<td>i. # of T-R sets in operation ii. primary &amp; secondary voltages iii. currents of T-R sets</td>
</tr>
<tr>
<td>II. Indicator Range</td>
<td>an excursion is defined as being outside the following: PM2.5 and PM10 emissions in excess of Conditions D.1.1(d) and D.1.2</td>
<td>an excursion is defined as being outside the following: PM emissions in excess of 0.10 lb/mm Btu, 24-hour daily average, or 0.03 lb./mm Btu, 30-boiler operating day rolling average</td>
<td>an excursion is defined as being outside the following: i. # of T-R sets in service shall be &gt; 90%</td>
</tr>
</tbody>
</table>


III. Performance Criteria

<table>
<thead>
<tr>
<th>A. Data Representativeness</th>
<th>Test methods as approved by Commissioner</th>
<th>Pursuant to 326 IAC 3</th>
<th>Subject to Instrument Specifications of Section C of permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Verification of Operational Status</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Monitoring Approach for PM10 and PM2.5 Emissions from Boiler No. 4

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>INDICATOR NO. 1</th>
<th>INDICATOR NO. 2</th>
<th>INDICATOR NO. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. QA/QC Practices and Criteria</td>
<td>Pursuant to 326 IAC 3, PM-CEMS per the monitoring plan specified by 63.10010(l)</td>
<td>Liquid inlet rate measured by pump amperage per Instrument Specifications of Section C of permit, gas flow per 40 CFR 75 RATA</td>
<td>Electrostatic precipitator current and voltage monitoring data per manufacturer recommendations</td>
</tr>
<tr>
<td>D. Monitoring Frequency</td>
<td>Once every 2 years</td>
<td>Continuous via the PM-CEMS</td>
<td>Once per day when operating</td>
</tr>
</tbody>
</table>

### Monitoring Approach for Sulfuric Acid Mist Emissions from Boiler No. 4

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>INDICATOR NO. 1</th>
<th>INDICATOR NO. 2</th>
<th>INDICATOR NO. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Indicator Measurement Approach</td>
<td>Sulfuric Acid Mist Emission Rate</td>
<td>Proper operation of scrubber and electrostatic precipitator</td>
<td>Proper operation of the calcium hydroxide injection system and operational status of the SCR</td>
</tr>
<tr>
<td>Test methods approved by the Commissioner, Scrubber and ESP, measured at the exhaust stacks</td>
<td>Maintenance of minimum scrubber liquid inlet rate measured with pump amperage. Maintenance of the electrostatic precipitator: i. # of T-R sets in operation ii. primary &amp; secondary voltages iii. currents of T-R sets</td>
<td>Monitoring and recording of the hourly calcium hydroxide injection rate and operational status of the SCR</td>
<td></td>
</tr>
</tbody>
</table>

### Monitoring Approach for Sulfuric Acid Mist Emissions from Boiler No. 4

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>INDICATOR NO. 1</th>
<th>INDICATOR NO. 2</th>
<th>INDICATOR NO. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>II. Indicator Range</td>
<td>An excursion is defined as sulfuric acid mist emissions in excess of Condition D.1.1(c)</td>
<td>Maintenance of minimum scrubber liquid inlet rate measured with pump amperage. Maintenance of</td>
<td>Assumption of the hourly emission rates, based on stack test data correlated to the calcium hydroxide injection rate</td>
</tr>
</tbody>
</table>
### III. Performance Criteria

<table>
<thead>
<tr>
<th>A. Data Representativeness</th>
<th>Spreadsheet predicted annual emissions, rolling average basis, based on calcium hydroxide hourly injection rates and operational status of the SCR</th>
<th>--</th>
</tr>
</thead>
<tbody>
<tr>
<td>B. Verification of Operational Status</td>
<td>SCR on or off</td>
<td>Calcium hydroxide injection above or below specified rates</td>
</tr>
<tr>
<td>C. QA/QC Practices and Criteria</td>
<td>Test methods as approved by Commissioner</td>
<td>Calibration of calcium hydroxide feed hopper load cells against certified weight?</td>
</tr>
<tr>
<td>D. Monitoring Frequency</td>
<td>Liquid inlet rate measured by pump amperage per instrument specifications of section C of permit, electrostatic precipitator current and voltage monitoring data per manufacturer recommendations</td>
<td>Calcium hydroxide injection rates via plc</td>
</tr>
</tbody>
</table>

### D.1.18 Monitoring Requirements for the Wet Scrubber for Boiler No.1, Boiler No.2, Boiler No.3 and Boiler No. 4.

For the dedicated wet scrubber for Boiler No.1, Boiler No.2, Boiler No.3 (until the initial mercury compliance tests for Boiler No. 1, Boiler No. 2, and Boiler No. 3 are completed), and Boiler No. 4, the Permittee shall comply with the following:

(a) The Permittee shall monitor the pH of the scrubbing liquid, exhaust air stream pressure drop and pump motor amperage for each pump of the dedicated wet scrubber for Boiler No.1, Boiler No.2, Boiler No.3, and Boiler No. 4 at least once per day when the wet scrubber is in operation.

(b) When for any one reading, the pH of the scrubbing liquid is less than 4.7 or a value established during the latest Relative Accuracy Test Audit (RATA), the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A pH reading that is less than 4.7 or a value established during the latest RATA is not a deviation from this permit.

(c) When for any one reading, the exhaust air stream pressure drop is outside the initial compliance demonstration range of 3.0 and 10.0 inches of water or a range established during the latest Relative Accuracy Test Audit (RATA), the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or
Exceedances. A pressure drop reading that is outside the normal range or a range established during the latest RATA is not a deviation from this permit.

(d) When for any one reading, the scrubber inlet rate indicates that the scrubber liquid input rate a value established during the latest Relative Accuracy Test Audit (RATA), the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. A flow rate reading that is less than 329 gallons per minute or a rate established during the latest RATA is not a deviation from this permit.

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

The instruments used for determining the \( \text{pH} \), pressure drop and pump motor amperage shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

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

D.1.19 Record Keeping Requirement

(a) For the wet scrubbers and ESP’s for Boiler No. 1, Boiler No. 2, Boiler No. 3, and Boiler No. 4 the following shall apply:

(1) To document the compliance status with SO\( \text{2} \) Conditions D.1.5 - Sulfur Dioxide (SO\( \text{2} \)), D.1.7 - Sulfur Dioxide Limitations, D.1.11 - Continuous Emissions Monitoring, and D.1.15 - SO\( \text{2} \) Monitoring Downtime, the Permittee shall maintain records in accordance with (A) through (D) below. Records shall be complete and sufficient to establish the compliance status with the SO\( \text{2} \) limits as required in Conditions D.1.5 - Sulfur Dioxide (SO\( \text{2} \)) and D.1.7 - Sulfur Dioxide Limitations. The Permittee shall maintain records in accordance with (C) below during SO\( \text{2} \) CEMS downtime if a backup CEMS is not used.

(A) All SO\( \text{2} \) continuous emissions monitoring data, pursuant to 326 IAC 7-2-1(g),

(B) Calculated fuel usage during each SO\( \text{2} \) CEMS downtime for Unit(s) affected by CEM downtime lasting 24 hours or more.

(C) The recirculation pH, the exhaust air stream pressure drop, and the pump motor amperage for each pump of the respective wet scrubber and number of recirculation pumps in service.

(D) The substitute data used for the missing data periods if data substitution pursuant to 40 CFR Part 75 Subpart D is used to provide data for the SO\( \text{2} \) CEMS downtime, in accordance with Condition D.1.15 - SO\( \text{2} \) Monitoring System Downtime.

(2) To document the compliance status with NO\( \text{x} \) Condition D.1.1 (b), the Permittee shall maintain records of all NO\( \text{x} \) and CO\( \text{2} \) or O\( \text{2} \) continuous emissions monitoring data, pursuant to 326 IAC 3-5-6. Records shall be complete and sufficient to establish compliance with the NO\( \text{x} \) limit as required in Condition D.1.1 (b).

(3) To document the compliance status with Condition D.1.1(c), the Permittee shall keep records that verify the emissions rates of H\( \text{2} \)SO\( \text{4} \) from Boiler No.1, Boiler No. 2, Boiler No. 3, and Boiler No. 4. These shall be made available upon request to IDEM, OAQ and the US EPA.
(4) To document the compliance status with Condition D.1.17 - Compliance Assurance Monitoring (CAM), the Permittee shall maintain records of corrective actions taken in response to excursions as required by the CAM Plan for the ESP (if any are required).

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

(b) The following shall apply for Boiler No. 1, Boiler No. 2 and Boiler No. 3:

(1) To document the compliance status with Conditions D.1.11(a) - Continuous Emissions Monitoring, the Permittee shall maintain records in accordance with (A) through (B) below.

(A) Data and results from the most recent stack test.

(2) To document the compliance status with Conditions D.1.11 - Continuous Emissions Monitoring, D.1.14 - Wet Scrubbers, D.1.15 - SO2 Monitoring System Downtime, D.1.16 - Particulate (PM) Monitoring System Downtime, and D.1.18 - Monitoring Requirement for the Wet Scrubber, the Permittee shall maintain records in accordance with (A) through (D) below. The Permittee shall maintain records in accordance with (D) below during PM CEMS downtime if a backup CEMS is not used.

(A) All continuous emissions monitoring data for SO2 emissions reduction, as a twenty-four (24) hour daily (block) average, in accordance with Condition D.1.14 - Wet Scrubber.

(B) All ESP parametric monitoring readings, in accordance with Condition D.1.16 - Particulate (PM) Monitoring System Downtime. The Permittee shall include in its daily record when a reading is not taken and the reason for the lack of a recorded reading (e.g. the process did not operate that day).

(C) All wet scrubber liquid inlet flow rate readings measured by pump amperage, in accordance with Condition D.1.18. The Permittee shall include in its daily record when a reading is not taken and the reason for the lack of a recorded reading (e.g. the process did not operate that day).

(D) All ESP and scrubber parametric monitor readings, in accordance with Conditions D.1.16 - Particulate (PM) Monitoring System Downtime and D.1.18.

(c) The following shall apply for Boiler No. 4:

To document the compliance status with Conditions D.1.1 - PSD Minor Limits, D.1.11 - Continuous Emissions Monitoring, D.1.13(a) - Transformer-Rectifier (T-R) Sets, D.1.14 - Wet Scrubber, the Permittee shall maintain records in accordance with (A) through (C) below.

Records shall be complete and sufficient to establish compliance with the limits established in Conditions D.1.1 - PSD Minor Limits.

(A) Data and results from the most recent stack test.
(B) Daily records of the number of T-R sets in service, the primary and secondary voltages, and the currents of the T-R sets. The Permittee shall include in its daily record when a reading is not taken and the reason for the lack of a recorded reading (e.g. the process did not operate that day).

(C) All wet scrubber pH, exhaust air stream pressure drop, and pump motor current readings, in accordance with Conditions D.1.15 - SO2 Monitoring System Downtime and D.1.18. The Permittee shall include in its daily record when a reading is not taken and the reason for the lack of a recorded reading (e.g. the process did not operate that day).

(d) The following shall apply for Boiler No. 1, Boiler No. 2, Boiler No. 3, and Boiler No. 4:

To document the compliance status with Condition D.1.1(c), D.1.1(d), and D.1.2, the Permittee shall keep monthly heat input records of Boiler No.1, Boiler No. 2, Boiler No. 3, and Boiler No. 4 that verify the emissions rates of H2SO4, PM10, and PM2.5 from Boiler No.1, Boiler No. 2, Boiler No. 3, and Boiler No. 4. These shall be made available upon request to IDEM, OAQ and the US EPA.

D.1.20 Reporting Requirement

(a) The following shall apply for Boiler No. 1, Boiler No. 2, and Boiler No. 3:

A quarterly report of the information to document the compliance status with Conditions D.1.1, D.1.2, D.1.6, and D.1.7 (a), (b) and (c) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee’s obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a “responsible official,” as defined by 326 IAC 2-7-1 (35).

(b) The following shall apply to Boiler No. 1, Boiler No. 2, Boiler No. 3, and Boiler No. 4:

Pursuant to 326 IAC 3-5-7(5), reporting of continuous monitoring system instrument downtime, except for zero (0) and span checks, which shall be reported separately, shall include the following:

(1) Date of downtime.

(2) Time of commencement.

(3) Duration of each downtime.

(4) Reasons for each downtime.

(5) Nature of system repairs and adjustments.

The report submitted by the Permittee does require the certification by a “responsible official” as defined by 326 IAC 2-7-1(35).
SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

(e) One (1) unloading station for barges, constructed prior to 1974, consisting of a clamshell bucket that transfers coal, limestone, and calcined petroleum coke from the barge to a spud hopper, with a nominal throughput of 1,300 tons of coal per hour, 800 tons of limestone per hour, and 150 tons of calcined petroleum coke per hour, a pipe conveyor will transfer the material to a hopper used for loading trucks, with emissions from the drop points controlled by a baghouse, exhausting through Stack 244. The spud hopper and the baghouse were installed in 2008 in order to accommodate the transfer of limestone and approved for modification in 2013 in order to accommodate the transfer of calcined petroleum coke.

(f) A coal transfer system, constructed prior to 1974, with a nominal throughput of 1,300 tons of coal per hour, consisting of the following equipment:

1. One (1) unloading station for trucks, adjacent to the 211 railcar dumper, with a drop point to an underground conveyor, with the drop point, identified as DP-1, equipped with wet suppression, and exhausting to the ambient air.

2. The 211 rail car dumper, modified in 2013, with an enclosed drop point from a fixed bottom discharge to an underground conveyor, with the drop point, identified as DP-3, equipped with wet suppression and exhausting to the ambient air.

3. One (1) 9.0 acre coal storage pile, having an estimated storage capacity of 300,000 tons, with fugitive emissions controlled by periodic watering by truck, and exhausting to the ambient air.

4. The 210H truck hopper, with a drop point on a coal storage pile identified as F-1, uncontrolled and exhausting to the ambient air.

5. Multiple unloading stations for trucks, with drop points to a coal storage pile, identified as F-1, uncontrolled and exhausting to the ambient air.

6. Enclosed conveyor (4), with a drop point to the F-1 coal pile stacking tower, uncontrolled and exhausting to the ambient air.

7. Enclosed conveyors 5 and 5A with each transfer point enclosed.

8. Nineteen (19) coal bunkers (four (4) coal bunkers per unit for units 1-3, and seven (7) for unit 4). Bunkers are loaded via a conveyor tripper system servicing Boilers No. 1, No. 2, No. 3 and No. 4. Particulate matter generated from loading bunkers is controlled by rotoclones or water sprays and exhausts to the ambient air.

9. One (1) frozen coal breaker, with maximum capacity of 650 tons per hour, constructed in 2014, the frozen coal breaker is part of a coal processing facility that includes conveying, stockpiles and crushing and equipped with wet suppression, and exhausting to the ambient air.

10. A Standby conveyor, identified as Conveyor 4A, with maximum capacity of 650 tons per hour, constructed in 2014, which transfer coal from bottom rail dumper to stockpile 210C or to the frozen coal breaker.

(g) A limestone transfer and handling system were installed in 2008, with a nominal throughput of 500 tons of limestone per hour, consisting of the following equipment:
(1) One (1) 1.42 acre limestone storage pile, having an estimated storage capacity of 22,000 tons, with fugitive emissions controlled by periodic watering by truck.

(2) One (1) limestone hopper, receiving limestone from the stockpiles via front end loaders, emissions uncontrolled and exhausting to ambient air.

[Under 40 CFR 60, Subpart OOO, the one (1) limestone hopper is considered affected unit.]

(3) One (1) enclosed pipe conveyor, transferring limestone from the limestone hopper to one (1) of the three (3) limestone day silos, emissions controlled by the limestone day silos bin vent filters.

[Under 40 CFR 60, Subpart OOO, one (1) pipe conveyor and three (3) limestone day silos are considered affected units.]

(4) Three (3) limestone day silos No. 1 - No. 3, each with maximum throughput capacity of 20.0 tons per hour, each equipped with a bin vent filter for particulate control, exhausting to vents 245, 246, and 247, respectively.

[Under 40 CFR 60, Subpart OOO, three (3) limestone day silos are considered affected units.]

(5) Three (3) weigh scales, each with a maximum capacity of 20.0 tons per hour, each receiving material from one of the limestone day silos and transferring limestone to one (1) of three (3) gravity discharge chutes, all emissions control by the limestone day silos' bin vent filters, and exhausting to vents 245, 246, 247.

[Under 40 CFR 60, Subpart OOO, three (3) weigh scales and three (3) gravity discharge chutes are considered affected units.]

(6) Three (3) wet ball mill crushers, receiving limestone from weigh scales via the three (3) gravity discharge chutes, the transfer point is enclosed and emissions are controlled by the limestone day silos' bin vent filters, and exhausting to vents 245, 246, and 247.

[Under 40 CFR 60, Subpart OOO, three (3) wet ball mill crushers and three (3) gravity discharge chutes are considered affected units.]

(h) One (1) dry flyash storage and loadout system, consisting of the following equipment:

(1) Three (3) pneumatic conveyors with filter/separators, Units #1, #2, and #3 Pneumatic Conveyor Air Filter/Separators, were installed 2009; each of a capacity of 14.0 tons per hour, each equipped with a baghouse for particulate control, and venting to stacks 283A1, 283A2, and 283A3, respectively.

(2) One (1) pneumatic conveyor with filter/separator, Unit #4 Pneumatic Conveyor Air Filter/Separator, installed in 2009; with a capacity of 30.0 tons per hour, equipped with a baghouse for particulate control, and venting to stack 283B1.

(3) One (1) intermediate silo, Units #1 - #3 Intermediate Flyash Silo installed in 2009, with a capacity of 42.0 tons per hour, equipped with a baghouse for particulate control, and
exhausting to stack 283A.

(4) One (1) intermediate silo, Unit #4 Intermediate Flyash Silo installed in 2009, with a capacity of 30.0 tons per hour, equipped with a baghouse for particulate control, and exhausting to stack 283B.

(5) One (1) dry flyash storage silo, Flyash Loadout Silo installed in 2009, with a capacity of 72.0 tons per hour, equipped with a baghouse for particulate control, exhausting to stack 283C.

(i) A gypsum transfer and handling system installed in 2008, with a nominal throughput of 72 tons of gypsum per hour, consisting of the following equipment:

(1) One (1) gypsum vacuum belt press dewatering system installed in 2008, with a nominal capacity of 72 tons of gypsum per hour, emissions are uncontrolled and exhausting through vent 248 to ambient atmosphere.

(2) One (1) saturated gypsum enclosed pipe conveyor installed in 2008, with a nominal capacity of 72 tons of saturated gypsum 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.2.1 Particulate Emission Limitations for Manufacturing Process [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, (Particulate Emission Limitations for Manufacturing Process) particulate (PM) emissions from each of the following operations shall not exceed the pound per hour limits listed in the table below:

<table>
<thead>
<tr>
<th>Unit Description</th>
<th>Max. Throughput Rate (tons/hr)</th>
<th>Particulate Emission Limit (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unloading Station (when handling coal)</td>
<td>1,300</td>
<td>81</td>
</tr>
<tr>
<td>Coal storage, handling drop points, crushers, and bunkers</td>
<td>1,300</td>
<td>81</td>
</tr>
<tr>
<td>Unloading Station (when handling limestone)</td>
<td>800</td>
<td>74.74</td>
</tr>
<tr>
<td>Limestone storage and handling drop points</td>
<td>500</td>
<td>68.96</td>
</tr>
<tr>
<td>Limestone wet ball mills</td>
<td>20</td>
<td>51</td>
</tr>
<tr>
<td>Dewatered gypsum transfer and handling system</td>
<td>72</td>
<td>48</td>
</tr>
<tr>
<td>Unit #1 Pneumatic Conveyor Air Filter/Separators</td>
<td>14</td>
<td>24</td>
</tr>
<tr>
<td>Unit #2 Pneumatic Conveyor Air Filter/Separators</td>
<td>14</td>
<td>24</td>
</tr>
<tr>
<td>Unit #3 Pneumatic Conveyor Air Filter/Separators</td>
<td>14</td>
<td>24</td>
</tr>
<tr>
<td>Unit #4 Pneumatic Conveyor Air Filter/Separator</td>
<td>30</td>
<td>40</td>
</tr>
</tbody>
</table>
### Unit Description

<table>
<thead>
<tr>
<th>Unit Description</th>
<th>Max. Throughput Rate (tons/hr)</th>
<th>Particulate Emission Limit (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit #1 - #3 Intermediate Flyash Silo</td>
<td>42</td>
<td>42.97</td>
</tr>
<tr>
<td>Unit #4 Intermediate Flyash Silo</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>Flyash Loadout Silo</td>
<td>72</td>
<td>48</td>
</tr>
<tr>
<td>Unloading Station (when handling calcined petroleum coke)</td>
<td>150</td>
<td>55.44</td>
</tr>
<tr>
<td>Frozen Coal Breaker</td>
<td>650</td>
<td>72.15</td>
</tr>
<tr>
<td>Conveyor</td>
<td>650</td>
<td>72.15</td>
</tr>
<tr>
<td>Enclosed portable limestone screw conveyor</td>
<td>60</td>
<td>46.30</td>
</tr>
</tbody>
</table>

These limits are determined by the following equations:

Interpolation of the data for the process weight rate up to 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.

When the process weight rate exceeds two hundred (200) tons per hour, the maximum allowable emission may exceed \( E \) pounds per hour, provided 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.2.2 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

In order to render 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable, the following conditions shall apply:

(a) The PM/PM\(_{10}\) emissions shall not exceed the following:

<table>
<thead>
<tr>
<th>Process Description</th>
<th>Control (Stack/Vent)</th>
<th>PM Emission Limit (lbs/hr)</th>
<th>PM(_{10}) Emission Limit (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unloading Station for Barges Spud Hopper, Truck Loading Hopper, and conveyance points</td>
<td>Unloading Station for Barges Spud Hopper and Truck Loading Hopper Baghouse (244)</td>
<td>9.43</td>
<td>9.43</td>
</tr>
<tr>
<td>Limestone Day Silos No. 1, No. 2, and No. 3, and associated weight scales and conveyance drop</td>
<td>Limestone Day Silos Bin Vent Filters (245), (246), (247)</td>
<td>0.29</td>
<td>0.29</td>
</tr>
<tr>
<td>Process Description</td>
<td>Control (Stack/Vent)</td>
<td>PM Emission Limit (lbs/hr)</td>
<td>PM₁₀ Emission Limit (lbs/hr)</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>----------------------</td>
<td>----------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Unit #1 Flyash Transfer</td>
<td>Unit #1 Conveyor Baghouse (283A1)</td>
<td>0.37</td>
<td>0.37</td>
</tr>
<tr>
<td>Unit #2 Flyash Transfer</td>
<td>Unit #2 Conveyor Baghouse (283A2)</td>
<td>0.37</td>
<td>0.37</td>
</tr>
<tr>
<td>Unit #3 Flyash Transfer</td>
<td>Unit #3 Conveyor Baghouse (283A3)</td>
<td>0.37</td>
<td>0.37</td>
</tr>
<tr>
<td>Unit #4 Flyash Transfer</td>
<td>Unit #4 Conveyor Baghouse (283B1)</td>
<td>0.37</td>
<td>0.37</td>
</tr>
<tr>
<td>Unit #1-#3 Intermediate Storage</td>
<td>Unit #1-#3 Intermediate Silo Baghouse (283A)</td>
<td>0.03</td>
<td>0.03</td>
</tr>
<tr>
<td>Unit #4 Intermediate Storage</td>
<td>Unit #4 Intermediate Silo Baghouse (283B)</td>
<td>0.06</td>
<td>0.06</td>
</tr>
<tr>
<td>Flyash Storage/Loadout Silo</td>
<td>Baghouse (283C)</td>
<td>0.3</td>
<td>0.3</td>
</tr>
</tbody>
</table>

Compliance with these limits, in conjunction with the PM/PM10 fugitive emissions from the "Y-pit" gravel haul, associated limestone, gypsum, and calcium hydroxide road travel and limestone and gypsum storage piles, the unloading station for barges spud hopper, truck loading hopper, and conveyance points ensures the PM emissions from the limestone transfer, handling, and storage, shall not exceed 429.13 tons per year, and the PM₁₀ emissions shall not exceed 145.93 tons per year.

(b) The coal throughput to the coal transfer station shall not exceed 3,707,969 tons per twelve (12) consecutive month period with compliance determined at the end of each month. The calcined petroleum coke throughput to the unloading station for barges spud hopper, truck loading hopper, and conveyance points shall not exceed 123,846 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with these limits ensures the PM/PM10 emissions from the coal transfer station and calcined petroleum coke hauling, including PM/PM10 fugitive emissions from the associated road travel, shall not exceed 450 tons per year of PM and 340 tons per year of PM10.

Compliance with the PM/PM₁₀ limits in Conditions D.1.1, and D.3.2 shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to Significant Source Modifications No. 173-22006-00002.

(c) The following conditions limitations shall apply to 211 rail car dumper operation;

(1) The PM emissions from the rail car dumper shall not exceed 24.8 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

(2) The PM₁₀ emissions from the rail car coal dumper shall not exceed 14.8 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
Compliance with the above limits, combined with the potential to emit particulate emissions from other emission units at the source, shall limit the potential to emit of particulate matter (PM and PM\(_{10}\)) to less than Prevention of Significant Deterioration (PSD) significant levels, and render the requirements of 326 IAC 2-2 not applicable to the modification approved by 173-33817-00002.

(d) The following conditions limitations shall apply to frozen coal breaker operation;

1. The throughput of coal to the frozen breaker shall not exceed 3,707,969 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.

2. The PM10 emissions shall not exceed 0.0057 pounds per ton.

3. The control efficiency of the wet suppression shall not be less than 70%.

Compliance with the above limits will limit the PM10 emissions from the frozen coal breaker to less than 15 tons per year and render the requirements of 326 IAC 2-2 (PSD) not applicable to the 2014 Modification.

**D.2.3 Emission Offset Minor Limit for PM2.5 [326 IAC 2-3]**

In order to render 326 IAC 2-3 (Emission Offset) not applicable, the following conditions shall apply:

(a) The PM2.5 emissions shall not exceed the following:

<table>
<thead>
<tr>
<th>Process Description</th>
<th>Control</th>
<th>PM2.5 Emission Limit (lbs/hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unloading Station for Barges Spud Hopper, Truck Loading Hopper, and conveyance points</td>
<td>Hopper Baghouse (244)</td>
<td>9.43</td>
</tr>
<tr>
<td>Limestone Day Silos No. 1, No. 2, and No. 3, and associated weight scales and conveyance drop points.</td>
<td>Limestone Day Silos Bin Vent Filters (245), (246), (247)</td>
<td>0.29</td>
</tr>
<tr>
<td>Unit #1 Flyash Transfer</td>
<td>Unit #1 Conveyor Baghouse (283A1)</td>
<td>0.37</td>
</tr>
<tr>
<td>Unit #2 Flyash Transfer</td>
<td>Unit #2 Conveyor Baghouse (283A2)</td>
<td>0.37</td>
</tr>
<tr>
<td>Unit #3 Flyash Transfer</td>
<td>Unit #3 Conveyor Baghouse (283A3)</td>
<td>0.37</td>
</tr>
<tr>
<td>Unit #4 Flyash Transfer</td>
<td>Unit #4 Conveyor Baghouse (283B1)</td>
<td>0.37</td>
</tr>
<tr>
<td>Unit #1-3 Intermediate Storage</td>
<td>Unit #1-3 Intermediate Silo Baghouse (283A)</td>
<td>0.03</td>
</tr>
<tr>
<td>Unit #4 Intermediate Storage</td>
<td>Unit #4 Intermediate Silo Baghouse (283B)</td>
<td>0.06</td>
</tr>
<tr>
<td>Flyash Storage/Loadout Silo</td>
<td>Baghouse (283C)</td>
<td>0.3</td>
</tr>
</tbody>
</table>

Compliance with these limits, in conjunction with the PM2.5 fugitive emissions from the "Y-pit" gravel haul road, associated limestone, gypsum, and calcium hydroxide road travel and limestone and gypsum storage piles, ensures the PM\(_{2.5}\) emissions from the limestone transfer, handling, and storage, shall not exceed 125.05 tons per year.
(b) The coal throughput to the coal transfer station shall not exceed 3,707,969 tons per
twelve (12) consecutive month period and a calcined petroleum coke throughput of
123,456 tons per twelve (12) consecutive month period with compliance determined at
the end of each month.

Compliance with this limit ensures the PM$_{2.5}$ emissions from the coal transfer station,
including fugitive emissions from the associated road travel, shall not exceed 340 tons
per year.

(c) The PM$_{2.5}$ emissions from the unloading station for barges spud hopper, truck loading
hopper, and conveyance points baghouse shall not exceed 7.07 tons per twelve (12)
consecutive month period, with compliance determined at the end of each month.

Compliance with the PM$_{2.5}$ limits in Conditions D.1.2, and D.3.3 shall render the requirements of
326 IAC 2-3 (Emission Offset) not applicable to Significant Source Modifications No. 173-22006-
00002.

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

D.2.4 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) In order to demonstrate the compliance status with conditions D.2.1 and D.2.2, the
Permittee shall perform PM and PM$_{10}$ testing of the limestone unloading operations
utilizing methods as approved by the Commissioner. These tests shall be repeated by
December 31 of every fifth calendar year following the calendar year in which the most
recent valid compliance demonstration was performed. Testing shall be conducted in
accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section
C - Performance Testing contains the Permittee’s obligation with regard to performance
testing required by this condition.

(b) In order to demonstrate the compliance status with conditions D.2.1 and D.2.2, the
Permittee shall perform PM and PM$_{10}$ testing of the barge unloading of the coal
operations utilizing methods as approved by the Commissioner. These tests shall be
repeated by December 31 of every fifth calendar year following the calendar year in
which the most recent valid compliance demonstration was performed. Testing shall be
conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section
C - Performance Testing contains the Permittee’s obligation with regard to performance
testing required by this condition.

(c) In order to demonstrate the compliance status with conditions D.2.3, the Permittee shall
perform PM$_{2.5}$ testing of the following units, utilizing methods as approved by the
Commissioner:

1. A representative Limestone day silo for silos 1-3. The test protocol shall provide
the rationale why the proposed silo will be representative of all 3 silos:

2. Dry fly ash storage and load out system;

3. Units 1-3 intermediate dry flyash storage silo;

4. Unit 4 intermediate dry flyash storage silo; and

5. The unloading station baghouse when coal and limestone and calcined
petroleum coke is unloaded. The initial compliance test shall be performed by
December 31, 2017.

These tests shall be repeated by December 31 of every fifth calendar year following the
calendar year in which the most recent valid compliance demonstration was performed.
Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source
Sampling Procedures). Section C - Performance Testing contains the Permittee’s
obligation with regard to performance testing required by this condition.

(d) In order to demonstrate the compliance status with conditions D.2.1 and D.2.2, the Permittee shall perform PM and PM10 testing of the barge unloading of the petroleum coke operations utilizing methods as approved by the Commissioner. These tests shall be repeated every five years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligations with regard to the performance testing required by this condition.

D.2.5 Particulate Control [326 IAC 2-7-6(6)]

(a) The watering system for the coal storage pile shall be in operation and control emissions as needed when coal is being unloaded. The watering system for the limestone storage pile shall be in operation and control emissions as needed when limestone is being unloaded.

(b) The dust collectors for particulate control shall be in operation and control emissions at all times the associated coal processing or conveyors are in operation.

(c) The bin vent filters and the hopper baghouse for particulate control shall be in operation and control emissions at all times the associated limestone weighing, storage or conveyors are in operation.

(d) The bin vent filters for particulate control shall be in operation and control emissions at all times when the flyash is being loaded into the loadout flyash silo or intermediate silos.

(e) The rotoclones for particulate control shall be in operation and control emissions at all times the associated coal bunkers are in operation and the coal bunkers feed conveyor water sprays are not operating. In the event of simultaneous rotoclone and water spray system failure, a trained employee will make hourly visible emission observations at the coal bunker feed conveyor area to confirm the absence of dusting while the conveyor continues operating.

(f) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

(g) Whenever the rail car dumper is in operation, the wet suppression system shall be in operation and control particulate emissions from the rail car coal dumper operation, except during the following conditions:

1. The ambient air temperature is at or below 32°F; or
2. There is active precipitation at the railcar dumper location.

D.2.6 Compliance Determination Requirements [326 IAC 2-2]

In order to demonstrate compliance with Condition D.2.2(c) - PSD Minor Limits, the particulate emissions from the railcar dumper shall be determined based on the following formulas:

\[
\text{PM Emissions (tons/month)} = 0.0509 \times (\text{Coal}_{\text{unc.}} + \text{Coal}_{\text{w.s.}} \times (1 - CE)) \times 1 \text{ ton/2000 lbs}
\]

\[
\text{PM}_{10} \text{ Emissions (tons/month)} = 0.0241 \times (\text{Coal}_{\text{unc.}} + \text{Coal}_{\text{w.s.}} \times (1 - CE)) \times 1 \text{ ton/2000 lbs}
\]
Where:

PM Emission limit (lb/ton), or as determined from the latest IDEM approved performance test.
PM$_{10}$ Emission limit (lb/ton), or as determined from the latest IDEM approved performance test.

Coal(unc.) = Coal dumped with no wet suppression (tons/mo.)
Coal(w.s) = Coal dumped using wet suppression (tons/mo.)
CE = Wet suppression control efficiency: 90%

D.2.7 Particulate Control [326 IAC 2-7-6(6)] [40 CFR 64]

In the event that rotoclones failure has been observed and the coal bunker conveyor water sprays are not operating, thus resulting in visible emissions in the bunker conveyor area:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)] [40 CFR 64]

D.2.8 Visible Emissions Notations

(a) The following conditions shall apply to the coal transfer station, limestone handling, and the gypsum transfer and handling system:

(1) Visible emission notations of the coal drop points, coal transfer points and the frozen coal breaker, limestone handling, and the gypsum transfer and handling system exhaust vent (248) shall be performed once per week during normal daylight operations. A trained employee shall record whether the emissions are normal or abnormal.

(2) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation.

(3) 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.

(4) 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.

(5) If abnormal emissions are observed from the coal unloading station drop points, coal transfer station exhausts, or coal crushers, the Permittee shall take reasonable response steps. Visible emissions that do not violate 326 IAC 6-4 (Fugitive Dust Emissions), 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) or an applicable opacity limit is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(b) Pursuant to 40 CFR 64, the following conditions shall apply to the coal, limestone and
petroleum coke unloading station:

(1) Visible emission notations of the coal and limestone unloading station baghouse exhaust (244) shall be performed daily. A trained employee shall record whether any emissions are observed.

(2) 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.

(3) If visible emissions are observed, the Permittee shall suspend operations controlled by this baghouse within 1 hour of the observance of visible emissions and shall not resume these operations until the cause of the visible emissions has been identified and corrected. Failure to take the response steps outlined above shall be considered a deviation from this permit. Section C – Response to Excursions or Exceedances contains the Permittee's obligations with regard to responding to the reasonable response steps required by this condition.

(c) The following conditions shall apply to the dry flyash storage and loadout system:

(1) When Unit 2 is down, Visible emission notations of the common Stack exhausts for Unit #1 Conveyor Baghouse, and Unit #3 Conveyor Baghouse, shall be performed at least once per day during normal daylight operations. In addition, visible emissions of the, Unit #1-#3 Intermediate Silo Baghouse (283A), Unit #4 Intermediate Silo Baghouse (283B), and the Flyash Storage/Loadout Silo Baghouse (283C) shall be performed at least once per day during normal daylight operations.

(2) 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.

(3) If visible emissions are observed, and the emission units that exhaust to the exhaust stacks listed in D.2.7(c) cannot be shutdown within one (1) hour of the visible emissions observation, an employee certified to perform an EPA Method 9 evaluation shall determine whether opacity exceeds five percent (5%) in one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4, and:

(1) If opacity exceeds five percent (5%) per Method 9, the Permittee shall shutdown the associated process as soon as practical unless either:

(i) the Permittee is able to bring the opacity below five percent (5%) within a reasonable period of time, or

(ii) the situation qualifies as an “emergency” under 326 IAC 2-7-1(12). If the Permittee continues to operate the associated process after determining the opacity exceeds five percent (5%) per Method 9, then the Permittee shall perform an additional Method 9 reading every four (4) daylight hours until the opacity is below five percent (5%) per Method 9.

(2) If opacity does not exceed five percent (5%) per the Method 9 observation referenced above, inspection of the baghouse shall be scheduled at the next available process down time. Repairs shall be scheduled as expeditiously as practical, based on the inspection results.
Failure to take the response steps required by Condition D.3.6(c) upon observation of visible emissions, shall be considered a deviation from this permit.

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

D.2.9 Record Keeping Requirement [40 CFR 64]

(a) To document the compliance status with Section C - Opacity, Section C - Fugitive Dust Emissions, and Condition D.2.8(a), the Permittee shall maintain a log of the weekly visible emission notations of the coal transfer station drop points and transfer points, the frozen coal breaker, limestone handling, and the gypsum transfer and handling system.

(b) To document the compliance status with Section C - Opacity, Section C - Fugitive Dust Emissions, and Condition D.2.8(b), the Permittee shall maintain a daily record of the visible emission notations of the coal and limestone unloading station baghouse exhaust (244). 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).

(c) To document the compliance status with Condition D.2.8(c) - Visible Emission Notation, the Permittee shall maintain records of visible emission notations of the common Stack exhaust from the Unit #1 Conveyor Baghouse and Unit #3 Conveyor Baghouse when Unit 2 is down. In addition, to document the compliance status with Condition D.3.7(c), the Permittee shall maintain records of visible emission notations of Unit #1-#3 Intermediate Silo Baghouse (283A), Unit #4 Intermediate Silo Baghouse (283B), and the Flyash Storage/Loadout Silo Baghouse (283C) once per day. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).

(d) To document the compliance status with Conditions D.2.2(b) and D.2.3(b), the Permittee shall maintain records of the monthly coal throughput to the coal transfer station.

(e) In order to document compliance status with condition D.2.2(c), the Permittee shall maintain monthly records of the particulate emissions from the car coal dumper. These shall include:

   (1) PM emissions; and

   (2) PM10 emissions.

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

D.2.10 Reporting Requirement [40 CFR 64]

A quarterly summary of the information to document the compliance status with Conditions D.2.2(d) shall be submitted, using the reporting forms located at the end of this permit, or their equivalent, not later than thirty (30) days following the end of each calendar quarter. 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 C - General Reporting Requirements contains the Permittee's obligations with regard to the reporting required by this condition.
SECTION D.3  EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

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

(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.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

(a) Pursuant to 326 IAC 8-3-2 (Cold Cleaner Degreaser Control Equipment and Operating Requirements), for cold cleaning degreasers without remote solvent reservoirs constructed after July 1, 1990:

(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) The Permittee shall 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.3.2 Material Requirements for Cold Cleaner Degreasers [326 IAC 8-3-8]

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

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

D.3.3 Record Keeping Requirements

(a) Pursuant to 326 IAC 8-3-8(c)(2), the following records shall be maintained for each purchase of cold cleaner degreaser solvent:

(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 of this permit contains the Permittee’s obligations with regard to the records required by this condition
SECTION E.1  TITLE IV CONDITIONS

ORIS Code: 1001

Emissions Unit Description:

(d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced on March 16, 1968, with an electrostatic precipitator (ESP) for control of particulate matter. Boiler No. 4 was configured with a low NOx burner in 1998, a Selective Catalytic Reduction (SCR) system permitted and constructed in 2004, a wet FGD scrubber, which commenced operation in 2008, and a reagent injection system that will reduce sulfuric acid emissions exiting the SCR, constructed in 2009. Boiler No. 4 has a nominal heat input capacity of 2,958 MMBtu/hr, and vents to Stack 243, which has continuous emissions monitors (CEMs) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), mercury (Hg, sorbent tube traps), particulate matter (PM) and sulfur dioxide (SO2). Boiler No. 4 has a natural gas burner for start-up and may be fired in conjunction with the coal-fired capability. Construction of a dedicated wet limestone slurry absorber scrubber began in 2005.

[Under NESHAP Subpart UUUUU, this unit is part of an affected source.]

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

Acid Rain Program

E.1.1 Acid Rain Permit [326 IAC 2-7-5(1)(C)] [326 IAC 21] [40 CFR 72 through 40 CFR 78]

Pursuant to 326 IAC 21 (Acid Deposition Control), the Permittee shall comply with all provisions of the Acid Rain permit issued for this source, and any other applicable requirements contained in 40 CFR 72 through 40 CFR 78. The Acid Rain permit for this source is attached to this permit as Appendix A, and is incorporated by reference.

E.1.2 Title IV Emissions Allowances [326 IAC 2-7-5(4)] [326 IAC 21]

Emissions exceeding any allowances that the Permittee lawfully holds under the Title IV Acid Rain Program of the Clean Air Act are prohibited, subject to the following limitations:

(a) No revision of this permit shall be required for increases in emissions that are authorized by allowances acquired under the Title IV Acid Rain Program, provided that such increases do not require a permit revision under any other applicable requirement.

(b) No limit shall be placed on the number of allowances held by the Permittee. The Permittee may not use allowances as a defense to noncompliance with any other applicable requirement.

(c) Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act.
SECTION E.2 NSPS

Emissions Unit Description:

(g) A limestone transfer and handling system were installed in 2008, with a nominal throughput of 500 tons of limestone per hour, consisting of the following equipment:

1. One (1) 1.42 acre limestone storage pile, having an estimated storage capacity of 22,000 tons, with fugitive emissions controlled by periodic watering by truck.

2. One (1) limestone hopper, receiving limestone from the stockpiles via front end loaders, emissions uncontrolled and exhausting to ambient air.

[Under 40 CFR 60, Subpart OOO, the one (1) limestone hopper is considered affected unit.]

3. One (1) enclosed pipe conveyor, transferring limestone from the limestone hopper to one (1) of the three (3) limestone day silos, emissions controlled by the limestone day silos' bin vent filters.

[Under 40 CFR 60, Subpart OOO, one (1) pipe conveyor and three (3) limestone day silos are considered affected units.]

4. Three (3) limestone day silos No. 1 - No. 3, each with maximum throughput capacity of 20.0 tons per hour, each equipped with a bin vent filter for particulate control, exhausting to vents 245, 246, and 247, respectively.

[Under 40 CFR 60, Subpart OOO, three (3) limestone day silos are considered affected units.]

5. Three (3) weigh scales, each with a maximum capacity of 20.0 tons per hour, each receiving material from one of the limestone day silos and transferring limestone to one (1) of three (3) gravity discharge chutes, all emissions control by the limestone day silos' bin vent filters, and exhausting to vents 245, 246, 247.

[Under 40 CFR 60, Subpart OOO, three (3) weigh scales and three (3) gravity discharge chutes, are considered affected units.]

6. Three (3) wet ball mill crushers, receiving limestone from weigh scales via the three (3) gravity discharge chutes, the transfer point is enclosed and emissions are controlled by the limestone day silos' bin vent filters, and exhausting to vents 245, 246, and 247.

[Under 40 CFR 60, Subpart OOO, three (3) wet ball mill crushers and three (3) gravity discharge chutes are considered affected units.]

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

E.2.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

<table>
<thead>
<tr>
<th>(a)</th>
<th>Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(b)</td>
<td>Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:</td>
</tr>
<tr>
<td></td>
<td>Indiana Department of Environmental Management</td>
</tr>
<tr>
<td></td>
<td>Compliance and Enforcement Branch, Office of Air Quality</td>
</tr>
<tr>
<td></td>
<td>100 North Senate Avenue</td>
</tr>
<tr>
<td></td>
<td>MC 61-53 IGCN 1003</td>
</tr>
<tr>
<td></td>
<td>Indianapolis, Indiana 46204-2251</td>
</tr>
</tbody>
</table>

E.2.2 Standards of Performance for Stationary Nonmetallic Mineral Processing Plants [326 IAC 12] [40 CFR Part 60, Subpart OOO]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart OOO (included as Attachment A to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

| (1) | 40 CFR 60.670(a) |
| (2) | 40 CFR 60.670(d) |
| (3) | 40 CFR 60.670(e) |
| (4) | 40 CFR 60.670(f) |
| (5) | 40 CFR 60.671 |
| (6) | 40 CFR 60.672 (a), (b), (e) and (f) |
| (7) | 40 CFR 60.673(b) |
| (8) | 40 CFR 60.675(a) |
| (9) | 40 CFR 60.675(b) |
| (10) | 40 CFR 60.675(g) |
| (11) | 40 CFR 60.676(a) |
| (12) | 40 CFR 60.676(f) |
| (13) | 40 CFR 60.676(g) |
| (14) | 40 CFR 60.676(h) |
| (15) | 40 CFR 60.676 (i)(1) |
| (16) | 40 CFR 60.676(j) |
| (17) | Table 1 to 40 CFR 60, Subpart OOO |
| (18) | Table 2 to 40 CFR 60 Subpart OOO |
| (19) | Table 3 to 40 CFR 60 Subpart OOO |
SECTION E.3  
NESHAP

Emissions Unit Description:

(b) Emergency generators not exceeding 1,600 hp:

   (1) One (1) stationary diesel emergency generator, identified as 202, manufactured and constructed prior to July 22, 2005, rated at 201 hp.

   [Under 40 CFR 63, Subpart ZZZZ, the emergency generators is considered to be affected unit.]

   (2) One (1) stationary diesel emergency generator, identified as 231, manufactured and constructed prior to July 22, 2005, rated at 201 hp.

   [Under 40 CFR 63, Subpart ZZZZ, the emergency generators is considered to be affected unit.]

(c) Stationary fire pump engines:

   (1) One (1) stationary diesel emergency firewater pump engine, identified as 281, manufactured on July 22, 2005, constructed in 2008, rated at 460 hp.

   [Under 40 CFR 63, Subpart ZZZZ, the firewater pump engines engine is considered to be affected unit.]

   (2) One (1) stationary diesel emergency firewater pump engine, identified as 203, manufactured and constructed prior to July 22, 2005, rated at 121 hp.

   [Under 40 CFR 63, Subpart ZZZZ, the firewater pump engine is considered to be affected unit.]

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

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


(a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart ZZZZ.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart ZZZZ (included as Attachment B to the operating permit), which are incorporated by reference as 326 IAC 20-81, for the emission unit(s) listed above:

1. 40 CFR 63.6580
2. 40 CFR 63.6585(a) and (b)
3. 40 CFR 63.6590(a)(1)(ii)
4. 40 CFR 63.6590(a)(1)(iv)
5. 40 CFR 63.6595(a)(1)
6. 40 CFR 63.6595(c)
7. 40 CFR 63.6602
8. 40 CFR 63.6605
9. 40 CFR 63.6612(a)
10. 40 CFR 63.6625(e)
11. 40 CFR 63.6625(f)
12. 40 CFR 63.6625(h)
13. 40 CFR 63.6625(i)
14. 40 CFR 63.6640(a), (b), (e), and (f)
15. 40 CFR 63.6645(a)(5)
16. 40 CFR 63.6650(f)
17. 40 CFR 63.6655(d)
18. 40 CFR 63.6655(e)(2)
19. 40 CFR 63.6655(f)(1)
20. 40 CFR 63.6660
21. 40 CFR 63.6665
22. 40 CFR 63.6670
23. 40 CFR 63.6675
24. Table 2c to Subpart ZZZZ of 63
25. Table 6 to Subpart ZZZZ of 63
26. Table 8 to Subpart ZZZZ of 63
## Emissions Unit Description:

**SECTION E.4 NSPS**

| (a) | One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced on July 26, 1956, with an on-line date of April 1960, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-1, which is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 1 was configured with a low NOx burner and over-fire air in 2003. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 1 were installed in 2008.

Note: Boiler No. 1 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]

(b) | One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced on July 26, 1956, with an on-line date of January 1964, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-2, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 2 was configured with a low NOx burner and over-fire air in 2004. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 2 were installed in 2008.

Note: Boiler No. 2 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]

(c) | One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced on July 26, 1956, with an on-line date of October 1965, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-3, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 3 was configured with a low NOx burner and over-fire air in 2002. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 3 were installed in 2008.

Note: Boiler No. 3 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]
[Under NESHAP Subpart DDDDD, this unit is part of an affected source]

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.4.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart Db.

(b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:

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

E.4.2 New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units: Requirements [326 IAC 12] [40 CFR Part 60, Subpart Db]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Db (included as Attachment C to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

(1) 40 CFR 60.40b(a)
(2) 40 CFR 60.40b(g)
(3) 40 CFR 60.40b(i)
(4) 40 CFR 60.41b
(5) 40 CFR 60.42b(e)
(6) 40 CFR 60.42b(g)
(7) 40 CFR 60.42b(h)
(8) 40 CFR 60.42b(k)(4)
(9) 40 CFR 60.43b(e)
(10) 40 CFR 60.43b(f)
(11) 40 CFR 60.43b(g)
(12) 40 CFR 60.43b(h)
(13) 40 CFR 60.44b(a)
(14) 40 CFR 60.44b(b)
(15) 40 CFR 60.44b(c)
(16) 40 CFR 60.44b(h)
(17) 40 CFR 60.44b(i)
(18) 40 CFR 60.45b(a)
(19) 40 CFR 60.45b(b)
(20) 40 CFR 60.45b(c)(1)
(21) 40 CFR 60.45b(c)(2)
(22) 40 CFR 60.45b(c)(3)
(23) 40 CFR 60.45b(c)(4)
(24) 40 CFR 60.45b(c)(5)
(25) 40 CFR 60.45b(f)
(26) 40 CFR 60.45b(g)
(27) 40 CFR 60.45b(h)
(28) 40 CFR 60.45b(i)
(29) 40 CFR 60.46b(a)
(30) 40 CFR 60.46b(b)
(31) 40 CFR 60.46b(c)
(32) 40 CFR 60.46b(d)(7)
(33) 40 CFR 60.46b(e)(1)
(34) 40 CFR 60.46b(e)(2)
(35) 40 CFR 60.46b(e)(3)
(36) 40 CFR 60.46b(j)
(37) 40 CFR 60.47b(a)
(38) 40 CFR 60.47b(c)
(39) 40 CFR 60.47b(d)
(40) 40 CFR 60.47b(e)
(41) 40 CFR 60.48b(b)
(42) 40 CFR 60.48b(c)
(43) 40 CFR 60.48b(d)
(44) 40 CFR 60.48b(e)
(45) 40 CFR 60.48b(f)
(46) 40 CFR 60.48b(j)(1)
(47) 40 CFR 60.48b(k)
(48) 40 CFR 60.49b(a)
(49) 40 CFR 60.49b(b)
(50) 40 CFR 60.49b(d)
(51) 40 CFR 60.49b(f)
(52) 40 CFR 60.49b(g)
(53) 40 CFR 60.49b(h)(1)
(54) 40 CFR 60.49b(h)(2)
(55) 40 CFR 60.49b(h)(3)
(56) 40 CFR 60.49b(i)
(57) 40 CFR 60.49b(j)
(58) 40 CFR 60.49b(k)
(59) 40 CFR 60.49b(l)
(60) 40 CFR 60.49b(n)
(61) 40 CFR 60.49b(o)
(62) 40 CFR 60.49b(v)
(63) 40 CFR 60.49b(w)
SECTION E.5  NSPS

Emissions Unit Description:

(10) A Standby conveyor, identified as Conveyor 4A, with maximum capacity of 650 tons per hour, constructed in 2014, which transfer coal from bottom rail dumper to stockpile 210C or to the frozen coal breaker.

[Under 40 CFR 60, Subpart Y, the one (1) Standby conveyor, identified as Conveyor 4A is considered affected units]

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

New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

E.5.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 60, Subpart Y.

(b) Pursuant to 40 CFR 60.4, the Permittee shall submit all required notifications and reports to:
Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.5.2 New Source Performance Standards of Performance for Coal Preparation and Processing Plants Requirements [326 IAC 12] [40 CFR Part 60, Subpart Y]

The Permittee shall comply with the following provisions of 40 CFR Part 60, Subpart Y (included as Attachment D to the operating permit), which are incorporated by reference as 326 IAC 12, for the emission unit(s) listed above:

(1) 40 CFR 60.250(a)
(2) 40 CFR 60.250(d)
(3) 40 CFR 60.251
(4) 40 CFR 60.254(b)(3)
(5) 40 CFR 60.254(c)
(6) 40 CFR 60.258
Emissions Unit Description:

(a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced on July 26, 1956, with an on-line date of April 1960, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-1, which is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 1 was configured with a low NOx burner and over-fire air in 2003. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 1 were installed in 2008.

Note: Boiler No. 1 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]

(b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced on July 26, 1956, with an on-line date of January 1964, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-2, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 2 was configured with a low NOx burner and over-fire air in 2004. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 2 were installed in 2008.

Note: Boiler No. 2 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]

(c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced on July 26, 1956, with an on-line date of October 1965, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-3, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 3 was configured with a low NOx burner and over-fire air in 2002. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 3 were installed in 2008.

Note: Boiler No. 3 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]
National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements
[326 IAC 2-7-5(1)]


(a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart DDDDD.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:
Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.6.2 Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD] [326 IAC 20-95]

The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart DDDDD (included as Attachment E to the operating permit), which are incorporated by reference as 326 IAC 20-95, for the emission unit(s) listed above:

(1) 40 CFR 63.7480
(2) 40 CFR 63.7485
(3) 40 CFR 63.7490(a)(1)
(4) 40 CFR 63.7490(d)
(5) 40 CFR 63.7495(b)
(6) 40 CFR 63.7499(a)
(7) 40 CFR 63.7500(a)(1)
(8) 40 CFR 63.7500(a)(2)
(9) 40 CFR 63.7500(a)(3)
(10) 40 CFR 63.7500(f)
(11) 40 CFR 63.7505(a)
(12) 40 CFR 63.7505(c)
(13) 40 CFR 63.7505(d)
(14) 40 CFR 63.7505(d)(1)
(15) 40 CFR 63.7510(a)(1)
(16) 40 CFR 63.7510(a)(2)(i)
(17) 40 CFR 63.7510(a)(3) and (4)
(18) 40 CFR 63.7510(c)
(19) 40 CFR 63.7510(d) and (e)
(20) 40 CFR 63.7515(a) thru (d)
(21) 40 CFR 63.7515(i)
(22) 40 CFR 63.7520(a) thru (f)
(23) 40 CFR 63.7525(a)(1) thru (6)
(24) 40 CFR 63.7525(b)(5) thru (8)
(25) 40 CFR 63.7525(d)(1) thru (5)
(26) 40 CFR 63.7525(e) and (f)
(27) 40 CFR 63.7525(h)
(28) 40 CFR 63.7525(l)(8)
(29) 40 CFR 63.7525(m)
(30) 40 CFR 63.7530(a)
(31) 40 CFR 63.7530(b)(4)(iii)
(32) 40 CFR 63.7530(b)(4)(viii)
(33) 40 CFR 63.7530(e) and (f)
(34) 40 CFR 63.7530(h) and (i)
(35) 40 CFR 63.7535(a) and (d)
(36) 40 CFR 63.7540(a)(1)
(37) 40 CFR 63.7540(a)(8)(i) thru (iv)
(38) 40 CFR 63.7540(a)(9)
(39) 40 CFR 63.7540(a)(10)(i) thru (vi)
(40) 40 CFR 63.7540(a)(13)
(41) 40 CFR 63.7540(a)(19)(i) thru (vi)
(42) 40 CFR 63.7540(b) and (d)
(43) 40 CFR 63.7545(a) and (b)
(44) 40 CFR 63.7545(d) and (e)
(45) 40 CFR 63.7550(a) and (b)
(46) 40 CFR 63.7550(c)(5)(i) thru (viii)
(47) 40 CFR 63.7550(c)(5)(xi) thru (xiii)
(48) 40 CFR 63.7550(c)(5)(xvi) thru (xvii)
(49) 40 CFR 63.7550(e) and (h)
(50) 40 CFR 63.7555(a) thru (c)
(51) 40 CFR 63.7555(d)(1)
(52) 40 CFR 63.7555(d)(6) thru (8)
(53) 40 CFR 63.7555(d)(10) and (11)
(54) 40 CFR 63.7560(a) thru (c)
(55) 40 CFR 63.7565
(56) 40 CFR 63.7570
(57) 40 CFR 63.7575
(58) Table 2 to 40 CFR 63, Subpart DDDDD
(59) Table 3 to 40 CFR 63, Subpart DDDDD
(60) Table 4 to 40 CFR 63, Subpart DDDDD
(61) Table 7 to 40 CFR 63, Subpart DDDDD
SECTION E.7

**Emissions Unit Description:**

(d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced on March 16, 1968, with an electrostatic precipitator (ESP) for control of particulate matter. Boiler No. 4 was configured with a low NOx burner in 1998, a Selective Catalytic Reduction (SCR) system permitted and constructed in 2004, a wet FGD scrubber, which commenced operation in 2008, and a reagent injection system that will reduce sulfuric acid emissions exiting the SCR, constructed in 2009. Boiler No. 4 has a nominal heat input capacity of 2,958 MMBtu/hr, and vents to Stack 243, which has continuous emissions monitors (CEMs) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), mercury (Hg, sorbent tube traps), particulate matter (PM) and sulfur dioxide (SO2). Boiler No. 4 has a natural gas burner for start-up and may be fired in conjunction with the coal-fired capability. Construction of a dedicated wet limestone slurry absorber scrubber began in 2005.

[Under NESHAP Subpart UUUUU, this unit is part of an affected source.]

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

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


(a) Pursuant to 40 CFR 63.1 the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1, for the emission unit(s) listed above, except as otherwise specified in 40 CFR Part 63, Subpart UUUUU.

(b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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


The Permittee shall comply with the following provisions of 40 CFR Part 63, Subpart UUUUU (included as Attachment F to the operating permit), for the emission unit(s) listed above:

1. 40 CFR 63.9981
2. 40 CFR 63.9982(a)(1)
3. 40 CFR 63.9982(d)
4. 40 CFR 63.9984(b), (c) and (f)
5. 40 CFR 63.9990(a)(1)
6. 40 CFR 63.9991(a)(1)
7. 40 CFR 63.10000(a) and (b)
8. 40 CFR 63.10000(c)(1)
9. 40 CFR 63.10000(c)(1)(iv) and (c)(1)(v)
10. 40 CFR 63.10000(c)(1)(vi)(B)
11. 40 CFR 63.10000(d) and (e)
12. 40 CFR 63.10005(a)(1)
13. 40 CFR 63.10005(a)(2)(i) and (ii)
14. 40 CFR 63.10005(b)
15. 40 CFR 63.10005(d)(1)
16. 40 CFR 63.10005(d)(3)
17. 40 CFR 63.10005(e)
18. 40 CFR 63.10005(j) and (k)
19. 40 CFR 63.10006(d) and (f)
20. 40 CFR 63.10006(i)(1)
21. 40 CFR 63.10006(j)
22. 40 CFR 63.10007(a)(1), (2)
23. 40 CFR 63.10007(b)
24. 40 CFR 63.10007(d)
25. 40 CFR 63.10007(e)(1) and (2)
26. 40 CFR 63.10007(f)(1)(ii)
27. 40 CFR 63.10007(g)
28. 40 CFR 63.10010(a)(1)
29. 40 CFR 63.10010(b) thru (d)
30. 40 CFR 63.10010(g)
31. 40 CFR 63.10010(i)(1) thru (5)
32. 40 CFR 63.10010(l)(1) thru (5)
33. 40 CFR 63.10011(c)(1) and (2)
34. 40 CFR 63.10011(e) and (f)
35. 40 CFR 63.10011(g)
36. 40 CFR 63.10020(a) thru (d)
37. 40 CFR 63.10020(e)(1) thru (3)
38. 40 CFR 63.10021(a) and (b)
39. 40 CFR 63.10021(d)(1) and (2)
40. 40 CFR 63.10021(e) thru (g)
41. 40 CFR 63.10021(h)(1) thru (3)
42. 40 CFR 63.10021(i)
43. 40 CFR 63.10030(a) and (b)
44. 40 CFR 63.10030(d)
45. 40 CFR 63.10030(e)(1) thru (8)
46. 40 CFR 63.10031(a) and (b)
47. 40 CFR 63.10031(c)(1) thru (4)
48. 40 CFR 63.10031(c)(5)(i) thru (iii)
49. 40 CFR 63.10031(d) thru (g)
50. 40 CFR 63.10032(a) and (b)
51. 40 CFR 63.10032(d)(1)
52. 40 CFR 63.10032(f) thru (h)
53. 40 CFR 63.10032(i)
54. 40 CFR 63.10033
55. 40 CFR 63.10040
56. 40 CFR 63.10041
57. 40 CFR 63.10042
58. 40 CFR 63, Subpart UUUUU, Table 1
59. 40 CFR 63, Subpart UUUUU, Table 2
60. 40 CFR 63, Subpart UUUUU, Table 3
61. 40 CFR 63, Subpart UUUUU, Table 3 (Items 3 and 4)
62. 40 CFR 63, Subpart UUUUU, Table 5
63. 40 CFR 63, Subpart UUUUU, Table 6
64. 40 CFR 63, Subpart UUUUU, Table 7
65. 40 CFR 63, Subpart UUUUU, Table 8
66. 40 CFR 63, Subpart UUUU, Table 9
67. 40 CFR 63, Subpart UUUU, Appendix A
68. 40 CFR 63, Subpart UUUU, Appendix B

E.7.3 Testing Requirements [326 IAC 2-1.1-11][40 CFR 63, Subpart UUUU]

The Permittee shall perform the stack testing for HCl as required under NESHAP 40 CFR 63.10006(f), utilizing methods as approved by the Commissioner to document compliance with Condition E.7.2. These tests shall be repeated at least once every quarter from the date of the last valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee’s obligation with regard to the performance testing required by this condition.
SECTION FClean Air Interstate Rule (CAIR) Nitrogen Oxides Annual, Sulfur Dioxide, and Nitrogen Oxides Ozone Season Trading Programs – CAIR Permit for CAIR Units Under 326 IAC 24-1-1(a), 326 IAC 24-2-1(a), and 326 IAC 24-3-1(a)

Emissions Unit Description:

(d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced on March 16, 1968, with an electrostatic precipitator (ESP) for control of particulate matter. Boiler No. 4 was configured with a low NOx burner in 1998, a Selective Catalytic Reduction (SCR) system permitted and constructed in 2004, a wet FGD scrubber, which commenced operation in 2008, and a reagent injection system that will reduce sulfuric acid emissions exiting the SCR, constructed in 2009. Boiler No. 4 has a nominal heat input capacity of 2,958 MMBtu/hr, and vents to Stack 243, which has continuous emissions monitors (CEMs) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), mercury (Hg, sorbent tubes traps), particulate matter (PM) and sulfur dioxide (SO2). Boiler No. 4 has a natural gas burner for start-up and may be fired in conjunction with the coal-fired capability. Construction of a dedicated wet limestone slurry absorber scrubber began in 2005.

[Under NESHAP Subpart UUUUU, this unit is part of an affected source.]

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

F.1 Automatic Incorporation of Definitions [326 IAC 24-1-7(e)] [326 IAC 24-2-7(e)] [326 IAC 24-3-7(e)] [40 CFR 97.123(b)] [40 CFR 97.223(b)] [40 CFR 97.323(b)]

This CAIR permit is deemed to incorporate automatically the definitions of terms under 326 IAC 24-1-2, 326 IAC 24-2-2, and 326 IAC 24-3-2.

F.2 Standard Permit Requirements [326 IAC 24-1-4(a)] [326 IAC 24-2-4(a)] [326 IAC 24-3-4(a)] [40 CFR 97.106(a)] [40 CFR 97.206(a)] [40 CFR 97.306(a)]

(a) The Permittee shall operate each source and unit in compliance with this CAIR permit.

(b) The CAIR NOx unit, subject to this CAIR permit is Unit 4. The CAIR SO2 units subject to this CAIR permit are Units 1, 2, 3, and 4. The CAIR NOx ozone season units subject to this CAIR permit is Unit 4 and large affected Warrick units 1, 2, and 3.

F.3 Monitoring, Reporting, and Record Keeping Requirements [326 IAC 24-1-4(b)] [326 IAC 24-2-4(b)] [326 IAC 24-3-4(b)] [40 CFR 97.106(b)] [40 CFR 97.206(b)] [40 CFR 97.306(b)]

(a) The owners and operators, and the CAIR designated representative, of each CAIR NOx source, CAIR SO2 source, and CAIR NOx ozone season source and CAIR NOx unit, CAIR SO2 unit, and CAIR NOx ozone season unit at the source shall comply with the applicable monitoring, reporting, and record keeping requirements of 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11.

(b) The emissions measurements recorded and reported in accordance with 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11 shall be used to determine compliance by each CAIR NOx source, CAIR SO2 source, and CAIR NOx ozone season source with the CAIR NOx emissions limitation under 326 IAC 24-1-4(c), CAIR SO2 emissions limitation under 326 IAC 24-2-4(c), and CAIR NOx ozone season emissions limitation under 326 IAC 24-3-4(c) and Condition H.4.1, Nitrogen Oxides Emission Requirements, Condition H.4.2, Sulfur Dioxide Emission Requirements, and Condition H.4.3, Nitrogen Oxides Ozone Season Emission Requirements.
F.4.1 Nitrogen Oxides Emission Requirements [326 IAC 24-1-4(c)] [40 CFR 97.106(c)]

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOX source and each CAIR NOX unit at the source shall hold, in the source’s compliance account, CAIR NOX allowances available for compliance deductions for the control period under 326 IAC 24-1-9(i) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOX units at the source, as determined in accordance with 326 IAC 24-1-11.

(b) A CAIR NOX unit shall be subject to the requirements under 326 IAC 24-1-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-1-4(c)(2), and for each control period thereafter.

(c) A CAIR NOx allowance shall not be deducted for compliance with the requirements under 326 IAC 24-1-4(c)(1), for a control period in a calendar year before the year for which the CAIR NOx allowance was allocated.

(d) CAIR NOX allowances shall be held in, deducted from, or transferred into or among CAIR NOX allowance tracking system accounts in accordance with 326 IAC 24-1-9, 326 IAC 24-1-10, and 326 IAC 24-1-12.

(e) A CAIR NOx allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NOx annual trading program. No provision of the CAIR NOx annual trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-1-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.

(f) A CAIR NOX allowance does not constitute a property right.

(g) Upon recordation by the U.S. EPA under 326 IAC 24-1-8, 326 IAC 24-1-9, 326 IAC 24-1-10, or 326 IAC 24-1-12, every allocation, transfer, or deduction of a CAIR NOX allowance to or from a CAIR NOX source’s compliance account is incorporated automatically in this CAIR permit.

F.4.2 Sulfur Dioxide Emission Requirements [326 IAC 24-2-4(c)] [40 CFR 97.206(c)]

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO2 source and each CAIR SO2 unit at the source shall hold, in the source’s compliance account, a tonnage equivalent of CAIR SO2 allowances available for compliance deductions for the control period under 326 IAC 24-2-8(j) and 326 IAC 24-2-8(k) not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO2 units at the source, as determined in accordance with 326 IAC 24-2-10.

(b) A CAIR SO2 unit shall be subject to the requirements under 326 IAC 24-2-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-2-4(c)(2), and for each control period thereafter.

(c) A CAIR SO2 allowance shall not be deducted for compliance with the requirements under 326 IAC 24-2-4(c)(1), for a control period in a calendar year before the year for which the CAIR SO2 allowance was allocated.

(d) CAIR SO2 allowances shall be held in, deducted from, or transferred into or among CAIR SO2 allowance tracking system accounts in accordance with 326 IAC 24-2-8, 326 IAC 24-2-9, and 326 IAC 24-2-11.

(e) A CAIR SO2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO2 trading program. No provision of the CAIR SO2 trading program, the CAIR
permit application, the CAIR permit, or an exemption under 326 IAC 24-2-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.

(f) A CAIR SO2 allowance does not constitute a property right.

(g) Upon recordation by the U.S. EPA under 326 IAC 24-2-8, 326 IAC 24-2-9, or 326 IAC 24-2-11, every allocation, transfer, or deduction of a CAIR SO2 allowance to or from a CAIR SO2 source's compliance account is incorporated automatically in this CAIR permit.

F.4.3 Nitrogen Oxides Ozone Season Emission Requirements [326 IAC 24-3-4(c)] [40 CFR 97.306(c)]

(a) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOx ozone season source and each CAIR NOx ozone season unit at the source shall hold, in the source's compliance account, CAIR NOx ozone season allowances available for compliance deductions for the control period under 326 IAC 24-3-9(i) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOx ozone season units at the source, as determined in accordance with 326 IAC 24-3-11.

(b) A CAIR NOx ozone season unit shall be subject to the requirements under 326 IAC 24-3-4(c)(1) for the control period starting on the applicable date, as determined under 326 IAC 24-3-4(c)(2), and for each control period thereafter.

(c) A CAIR NOx ozone season allowance shall not be deducted for compliance with the requirements under 326 IAC 24-3-4(c)(1), for a control period in a calendar year before the year for which the CAIR NOx ozone season allowance was allocated.

(d) CAIR NOx ozone season allowances shall be held in, deducted from, or transferred into or among CAIR NOx ozone season allowance tracking system accounts in accordance with 326 IAC 24-3-9, 326 IAC 24-3-10, and 326 IAC 24-3-12.

(e) A CAIR NOx ozone season allowance is a limited authorization to emit one (1) ton of nitrogen oxides in accordance with the CAIR NOx ozone season trading program. No provision of the CAIR NOx ozone season trading program, the CAIR permit application, the CAIR permit, or an exemption under 326 IAC 24-3-3 and no provision of law shall be construed to limit the authority of the State of Indiana or the United States to terminate or limit the authorization.

(f) A CAIR NOx ozone season allowance does not constitute a property right.

(g) Upon recordation by the U.S. EPA under 326 IAC 24-3-8, 326 IAC 24-3-9, 326 IAC 24-3-10, or 326 IAC 24-3-12, every allocation, transfer, or deduction of a CAIR NOx ozone season allowance to or from a CAIR NOx ozone season source's compliance account is incorporated automatically in this CAIR permit.

F.5 Excess Emissions Requirements [326 IAC 24-1-4(d)] [326 IAC 24-2-4(d)] [326 IAC 24-3-4(d)] [40 CFR 97.106(d)] [40 CFR 97.206(d)] [40 CFR 97.306(d)]

(a) The owners and operators of a CAIR NOx source and each CAIR NOx unit that emits nitrogen oxides during any control period in excess of the CAIR NOx emissions limitation shall do the following:

1. Surrender the CAIR NOx allowances required for deduction under 326 IAC 24-1-9(j)(4).

2. Pay any fine, penalty, or assessment or comply with any other remedy imposed,
for the same violations, the Clean Air Act (CAA) or applicable state law.

Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 326 IAC 24-1-4, the Clean Air Act (CAA), and applicable state law.

(b) The owners and operators of a CAIR SO2 source and each CAIR SO2 unit that emits sulfur dioxide during any control period in excess of the CAIR SO2 emissions limitation shall do the following:

1. Surrender the CAIR SO2 allowances required for deduction under 326 IAC 24-2-8(k)(4).

2. Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 326 IAC 24-2-4, the Clean Air Act (CAA), and applicable state law.

(c) The owners and operators of a CAIR NOX ozone season source and each CAIR NOX ozone season unit that emits nitrogen oxides during any control period in excess of the CAIR NOX ozone season emissions limitation shall do the following:

1. Surrender the CAIR NOX ozone season allowances required for deduction under 326 IAC 24-3-9(j)(4).

2. Pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, the Clean Air Act (CAA) or applicable state law.

Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 326 IAC 24-3-4, the Clean Air Act (CAA), and applicable state law.

F.6 Record Keeping Requirements [326 IAC 24-1-4(e)] [326 IAC 24-2-4(e)] [326 IAC 24-3-4(e)] [326 IAC 2-7-5(3)] [40 CFR 97.106(e)] [40 CFR 97.206(e)] [40 CFR 97.306(e)]

Unless otherwise provided, the owners and operators of the CAIR NOX source, CAIR SO2 source, and CAIR NOX ozone season source and each CAIR NOX unit, CAIR SO2 unit, and CAIR NOX ozone season unit at the source shall keep on site at the source or at a central location within Indiana for those owners or operators with unattended sources, each of the following documents for a period of five (5) years from the date the document was created:

(a) The certificate of representation under 326 IAC 24-1-6(h), 326 IAC 24-2-6(h), and 326 IAC 24-3-6(h) for the CAIR designated representative for the source and each CAIR NOX unit, CAIR SO2 unit, and CAIR NOX ozone season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation. The certificate and documents shall be retained on site at the source or at a central location within Indiana for those owners or operators with unattended sources beyond such five (5) year period until such documents are superseded because of the submission of a new account certificate of representation under 326 IAC 24-1-6(h), 326 IAC 24-2-6(h), and 326 IAC 24-3-6(h) changing the CAIR designated representative.

(b) All emissions monitoring information, in accordance with 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11, provided that to the extent that 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11 provides for a three (3) year period for record keeping, the three (3) year period shall apply.

(c) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NOX annual trading program, CAIR SO2 trading
program, and CAIR NOx ozone season trading program.

(d) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NOx annual trading program, CAIR SO2 trading program, and CAIR NOx ozone season trading program or to demonstrate compliance with the requirements of the CAIR NOx annual trading program, CAIR SO2 trading program, and CAIR NOx ozone season trading program.

This period may be extended for cause, at any time before the end of five (5) years, in writing by IDEM, OAQ or the U.S. EPA. Unless otherwise provided, all records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

F.7 Reporting Requirements [326 IAC 24-1-4(e)] [326 IAC 24-2-4(e)] [326 IAC 24-3-4(e)]

(a) The CAIR designated representative of the CAIR NOx source, CAIR SO2 source, and CAIR NOx ozone season source and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx ozone season unit at the source shall submit the reports required under the CAIR NOx annual trading program, CAIR SO2 trading program, and CAIR NOx ozone season trading program, including those under 326 IAC 24-1-11, 326 IAC 24-2-10, and 326 IAC 24-3-11.

(b) Pursuant to 326 IAC 24-1-4(e), 326 IAC 24-2-4(e), and 326 IAC 24-3-4(e) and 326 IAC 24-1-6(e)(1), 326 IAC 24-2-6(e)(1), and 326 IAC 24-3-6(e)(1), each submission under the CAIR NOx annual trading program, CAIR SO2 trading program, and CAIR NOx ozone season trading program shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

(c) Where 326 IAC 24-1, 326 IAC 24-2, and 326 IAC 24-3 requires a submission to IDEM, OAQ, the information 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

(d) Where 326 IAC 24-1, 326 IAC 24-2, and 326 IAC 24-3 requires a submission to U.S. EPA, the information shall be submitted to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvanian Avenue, NW
Mail Code 6204N
Washington, DC 20460

F.8 Liability [326 IAC 24-1-4(f)] [326 IAC 24-2-4(f)] [326 IAC 24-3-4(f)] [40 CFR 97.106(f)]

The owners and operators of each CAIR NOx source, CAIR SO2 source, and CAIR NOx ozone...
season source and each CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} ozone season unit shall be liable as follows:

(a) Each CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} ozone season source and each CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} ozone season unit shall meet the requirements of the CAIR NO\textsubscript{x} annual trading program, CAIR SO\textsubscript{2} trading program, and CAIR NO\textsubscript{x} ozone season trading program, respectively.

(b) Any provision of the CAIR NO\textsubscript{x} annual trading program, CAIR SO\textsubscript{2} trading program, and CAIR NO\textsubscript{x} ozone season trading program that applies to a CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} ozone season source or the CAIR designated representative of a CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} ozone season source shall also apply to the owners and operators of such source and of the CAIR NO\textsubscript{x} units, CAIR SO\textsubscript{2} units, and CAIR NO\textsubscript{x} ozone season units at the source.

(c) Any provision of the CAIR NO\textsubscript{x} annual trading program, CAIR SO\textsubscript{2} trading program, and CAIR NO\textsubscript{x} ozone season trading program that applies to a CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} ozone season unit or the CAIR designated representative of a CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} ozone season unit shall also apply to the owners and operators of such unit.

F.9 Effect on Other Authorities [326 IAC 24-1-4(g)] [326 IAC 24-2-4(g)] [326 IAC 24-3-4(g)] [40 CFR 97.106(g)] [40 CFR 97.206(g)] [40 CFR 97.306(g)]

No provision of the CAIR NO\textsubscript{x} annual trading program, CAIR SO\textsubscript{2} trading program, and CAIR NO\textsubscript{x} ozone season trading program, a CAIR permit application, a CAIR permit, or an exemption under 326 IAC 24-1-3, 326 IAC 24-2-3, and 326 IAC 24-3-3 shall be construed as exempting or excluding the owners or operators, and the CAIR designated representative, of a CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} ozone season source or CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} ozone season unit from compliance with any other provision of the applicable, approved state implementation plan, a federally enforceable permit, or the Clean Air Act (CAA).

F.10 CAIR Designated Representative and Alternate CAIR Designated Representative [326 IAC 24-1-6] [326 IAC 24-2-6] [326 IAC 24-3-6] [40 CFR 97, Subpart BB] [40 CFR 97, Subpart BBB] [40 CFR 97, Subpart BBBB]

Pursuant to 326 IAC 24-1-6, 326 IAC 24-2-6, and 326 IAC 24-3-6:

(a) Except as specified in 326 IAC 24-1-6(f)(3), 326 IAC 24-2-6(f)(3), and 326 IAC 24-3-6(f)(3), each CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} ozone season source, including all CAIR NO\textsubscript{x} units, CAIR SO\textsubscript{2} units, and CAIR NO\textsubscript{x} ozone season units at the source, shall have one (1) and only one (1) CAIR designated representative, with regard to all matters under the CAIR NO\textsubscript{x} annual trading program, CAIR SO\textsubscript{2} trading program, and CAIR NO\textsubscript{x} ozone season trading program concerning the source or any CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} ozone season unit at the source.

(b) The provisions of 326 IAC 24-1-6(f), 326 IAC 24-2-6(f), and 326 IAC 24-3-6(f) shall apply where the owners or operators of a CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} ozone season source choose to designate an alternate CAIR designated representative.

Except as specified in 326 IAC 24-1-6(f)(3), 326 IAC 24-2-6(f)(3), and 326 IAC 24-3-6(f)(3), whenever the term “CAIR designated representative” is used, the term shall be construed to include the CAIR designated representative or any alternate CAIR designated representative.
Source Name: Alcoa Warrick LLC
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630
Part 70 Permit No.: T173-36540-00002

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

**Facility/Equipment/Operation:**

**Control Equipment:**

**Permit Condition or Operation Limitation in Permit:**

**Description of the Emergency:**

**Describe the cause of the Emergency:**
If any of the following are not applicable, mark N/A

<table>
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<th>Date/Time Emergency started:</th>
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<td>Date/Time Emergency was corrected:</td>
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<td>Was the facility being properly operated at the time of the emergency?</td>
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<td>Type of Pollutants Emitted: TSP, PM-10, SO₂, VOC, NOₓ, CO, Pb, other:</td>
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<td>Estimated amount of pollutant(s) emitted during emergency:</td>
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<td>Describe the steps taken to mitigate the problem:</td>
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<td>Describe the corrective actions/response steps taken:</td>
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<td>Describe the measures taken to minimize emissions:</td>
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If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: ____________________________
Title / Position: ____________________________
Date: ____________________________
Phone: ____________________________
## Part 70 Quarterly Report

**Source Name:** Alcoa Warrick LLC  
**Source Address:** 4700 Darlington Road, Newburgh, Indiana 47630  
**Part 70 Permit No.:** T173-36540-00002  
**Facility:** Boilers No. 1, No. 2, and No. 3  
**Parameter:** PM Emissions  
**Limit:** less than 1,060.0 tons per twelve (12) consecutive month period

### QUARTER: ________________  YEAR: ________________

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- [ ] 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: Alcoa Warrick LLC  
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630  
Part 70 Permit No.: T173-36540-00002  
Facility: Boiler No. 4  
Parameter: PM Emissions  

(Calculated using the most recent PM emission factor in lb/MMBtu, approved by IDEM derived as specified by Condition D.1.11 (e))

Limit: Shall be less than 1,425.0 tons per twelve (12) consecutive month period.

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- [ ] 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:** Alcoa Warrick LLC  
**Source Address:** 4700 Darlington Road, Newburgh, Indiana 47630  
**Part 70 Permit No.:** T173-36540-00002  
**Facility:** Boilers No. 1, No. 2, No. 3, and No. 4  
**Parameter:** NOx Emissions  
**Limit:** Shall be less than 13,720.0 tons per twelve (12) consecutive month period

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- [ ] 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: Alcoa Warrick LLC  
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630  
Part 70 Permit No.: T173-36540-00002  
Facility: Boilers No., 1, No. 2, No. 3, and No. 4  
Parameter: H₂SO₄ Emissions  
Limit: Shall be less than 677.0 tons per twelve (12) consecutive month period.

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- □ 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 Quarterly Report

Source Name: Alcoa Warrick LLC
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630
Part 70 Permit No.: T173-36540-00002
Facility: Boilers No., 1, No. 2, No. 3, and No. 4
Parameter: PM10 Emissions
Limit: Shall be less than 4,490.0 tons per twelve (12) consecutive month period

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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 Quarterly Report

Source Name: Alcoa Warrick LLC
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630
Part 70 Permit No.: T173-36540-00002
Facility: Boilers No., 1, No. 2, No. 3, and No. 4
Parameter: PM2.5 Emissions
Limit: Shall be less than 4,490.0 tons per twelve (12) consecutive month period

<table>
<thead>
<tr>
<th>QUARTER :</th>
<th>YEAR:</th>
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<tr>
<th>Month</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 1 + Column 2</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>This Month</td>
<td>Previous 11 Months</td>
<td>12 Month Total</td>
</tr>
<tr>
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</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: Alcoa Warrick LLC  
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630  
Part 70 Permit No.: T173-36540-00002  
Facility: Boilers No. 1, No. 2, and No. 3  
Parameter: CO Emissions  
Limit: Shall be less than 2,099.80 tons per twelve (12) consecutive month period

<table>
<thead>
<tr>
<th>QUARTER</th>
<th>YEAR</th>
</tr>
</thead>
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<table>
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<tr>
<th>Month</th>
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<tbody>
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<td>Previous 11 Months</td>
<td>12 Month Total</td>
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</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 Quarterly Report**

Source Name: Alcoa Warrick LLC  
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630  
Part 70 Permit No.: T173-36540-00002  
Facility: Boiler No. 1, 2, 3  
Parameter: SO2 Emissions (Condition D.1.8(c))  
Limit: Total shall not exceed 249.5 tons per day with compliance determined at the end of each day.

<table>
<thead>
<tr>
<th>QUARTER:</th>
<th>YEAR:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Average, lb SO2/MMBtu</td>
<td>SO2 ton/day</td>
</tr>
<tr>
<td>Unit 1</td>
<td>Unit 2</td>
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</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: Alcoa Warrick LLC
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630
Part 70 Permit No.: T173-36540-00002
Facility: Boiler No. 1, 2, 3 and 4
Parameter: SO2 Emissions (Conditions D.1.8(a), D.1.8(b) and D.1.8(c))
Limit: (a) Total of all units shall not exceed 157,206 tons per twelve consecutive month period with compliance determined at the end of each month based on 365 day rolling average.
(b) Unit 4 shall not exceed 181.2 tons per day with compliance determined at the end of each day.
(c) Total from Boilers No.1, No.2 and No.3 shall not exceed 249.5 tons/day with compliance determined at the end of each day

<table>
<thead>
<tr>
<th>Date</th>
<th>Unit 1-3 SO2 Daily Tons</th>
<th>Unit 1-3 SO2 Daily Tons</th>
<th>Unit 1-3 SO2 Daily Tons</th>
<th>365-day Rolling Average SO2 Total Tons</th>
</tr>
</thead>
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</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: ________________________________
**Part 70 Quarterly Report**

Source Name: Alcoa Warrick LLC  
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630  
Part 70 Permit No.: T173-36540-00002  
Facility: Rail Car Dumper  
Parameter: PM Emissions  
Limit: 24.8 tons per twelve consecutive month period

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

<table>
<thead>
<tr>
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<th>Column 2</th>
<th>Column 1 + Column 2</th>
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<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: ____________________________
**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**  
**OFFICE OF AIR QUALITY**  
**COMPLIANCE AND ENFORCEMENT BRANCH**

**Part 70 Quarterly Report**

Source Name: Alcoa Warrick LLC  
Source Address: 4700 Darlington Road, Newburgh, Indiana 47630  
Part 70 Permit No.: T173-36540-00002  
Facility: Rail Car Dumper  
Parameter: PM\(_{10}\) Emissions  
Limit: 14.8 tons per twelve consecutive month period

<table>
<thead>
<tr>
<th>QUARTER</th>
<th>YEAR</th>
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<table>
<thead>
<tr>
<th>Month</th>
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<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:** Alcoa Warrick LLC  
**Source Address:** 4700 Darlington Road, Newburgh, Indiana 47630  
**Part 70 Permit No.:** T173-36540-00002  
**Facility:** Frozen Coal Breaker  
**Parameter:** Coal Throughput  
**Limit:** shall not exceed 3,707,969 tons per twelve (12) consecutive month period

<table>
<thead>
<tr>
<th>QUARTER :</th>
<th>YEAR:</th>
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<table>
<thead>
<tr>
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</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: ________________________________
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".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

<table>
<thead>
<tr>
<th>Permit Requirement (specify permit condition #)</th>
<th>Date of Deviation:</th>
<th>Duration of Deviation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Deviations:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Probable Cause of Deviation:</td>
<td></td>
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<tr>
<td>Response Steps Taken:</td>
<td></td>
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</tbody>
</table>

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

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<td>Response Steps Taken:</td>
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<tr>
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<tbody>
<tr>
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<tr>
<td>Probable Cause of Deviation:</td>
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<td>Response Steps Taken:</td>
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</tbody>
</table>

Form Completed by: ____________________________
Title / Position: ____________________________
Date: ____________________________
Phone: ____________________________
Source Description and Location

<table>
<thead>
<tr>
<th>Source Name:</th>
<th>Alcoa Warrick LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Location:</td>
<td>4700 Darlington Road, Newburgh, IN 47630-0010</td>
</tr>
<tr>
<td>County:</td>
<td>Warrick</td>
</tr>
<tr>
<td>SIC Code:</td>
<td>4931 (Electric and Other Services Combined)</td>
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<tr>
<td>Operation Permit No.:</td>
<td>T 173-36540-00002</td>
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<tr>
<td>Operation Permit Issuance Date:</td>
<td>August 23, 2016</td>
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<tr>
<td>Minor Permit Modification No.:</td>
<td>173-40732-00002</td>
</tr>
<tr>
<td>Permit Reviewer:</td>
<td>Jared Karban</td>
</tr>
</tbody>
</table>

Source Definition

This Source Definition from the Part 70 Operating Permit Renewal was incorporated into this permit as follows:

This company consists of two (2) plants:

(a) Alcoa aluminum production plant, the primary operation, is located at Jct. IN Hwys. 66 & 61, Newburgh, Indiana.

(b) Alcoa power plant, the supporting operation, is located at 4700 Darlington Road, Newburgh, Indiana.

However, these plants are located on one or more contiguous properties, have the same two digit SIC code and are under common ownership, therefore they are considered one (1) major source, as defined by 326 IAC 2-7-1(22).

Separate Part 70 Operating permits were issued to Alcoa Inc. – Warrick Operations ID - 173-00007 and Alcoa Warrick Power Plant ID - 173-00002 solely for administrative purposes. This conclusion was initially determined under Part 70 Operating Permit Renewal T173-6630-00002 on June 13, 2006.

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 173-36540-00002 on August 23, 2016. The source has since received the following approvals:

(a) TV AA No. 173-38874-00002, issued on September 20, 2017.
County Attainment Status

The source is located in Warrick County.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Designation</th>
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<tbody>
<tr>
<td>SO₂</td>
<td>Cannot be classified.</td>
</tr>
<tr>
<td>CO</td>
<td>Unclassifiable or attainment effective November 15, 1990.</td>
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<tr>
<td>O₃</td>
<td>Unclassifiable or attainment effective July 20, 2012, for the 2008 8-hour ozone standard.¹</td>
</tr>
<tr>
<td>PM₂₅</td>
<td>Attainment effective October 27, 2011, for the annual PM₂₅ standard.</td>
</tr>
<tr>
<td>PM₁₀</td>
<td>Unclassifiable or attainment effective December 13, 2009, for the 24-hour PM₂₅ standard.</td>
</tr>
<tr>
<td>NO₂</td>
<td>Unclassifiable or attainment effective November 15, 1990.</td>
</tr>
<tr>
<td>Pb</td>
<td>Unclassifiable or attainment effective December 31, 2011.</td>
</tr>
</tbody>
</table>

¹Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005.

(a) Ozone Standards
Volatile organic compounds (VOC) and Nitrogen Oxides (NOₓ) 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 NOₓ emissions are considered when evaluating the rule applicability relating to ozone. Warrick County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOₓ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM₂₅
Warrick County has been classified as attainment for PM₂₅. Therefore, direct PM₂₅, SO₂, and NOₓ emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(c) Other Criteria Pollutants
Warrick County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this source is classified as a fossil fuel-fired steam electric plant of more than two hundred fifty million (250,000,000) British thermal units per hour heat input, it is considered one (1) of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1), 326 IAC 2-3-2(g), or 326 IAC 2-7-1(22)(B). Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

The fugitive emissions of hazardous air pollutants (HAP) are counted toward the determination of Part 70 Permit applicability and source status under Section 112 of the Clean Air Act (CAA).

Greenhouse Gas (GHG) Emissions

On June 23, 2014, in the case of Utility Air Regulatory Group v. EPA, cause no. 12-1146, (available at http://www.supremecourt.gov/opinions/13pdf/12-1146_4g18.pdf) the United States Supreme Court ruled that the U.S. EPA does not have the authority to treat greenhouse gases (GHGs) as an air pollutant for the purpose of determining operating permit applicability or PSD Major source status. On July 24, 2014, the U.S. EPA issued a memorandum to the Regional Administrators outlining next steps in permitting decisions in light of the Supreme Court’s decision. U.S. EPA’s guidance states that U.S. EPA will no longer require PSD or Title V permits for sources “previously classified as ‘Major’ based solely on greenhouse gas emissions.”
The Indiana Environmental Rules Board adopted the GHG regulations required by U.S. EPA at 326 IAC 2-2-1(zz), pursuant to Ind. Code § 13-14-9-8(h) (Section 8 rulemaking). A rule, or part of a rule, adopted under Section 8 is automatically invalidated when the corresponding federal rule, or part of the rule, is invalidated. Due to the United States Supreme Court Ruling, IDEM, OAQ cannot consider GHG emissions to determine operating permit applicability or PSD applicability to a source or modification.

### Source Status - Existing Source

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>
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<tbody>
<tr>
<td>PM(^1)</td>
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<tr>
<td>--------------------------------------------------------</td>
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<tr>
<td>Total PTE of Entire Source Including Fugitives*</td>
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<tr>
<td>2605.6</td>
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<tr>
<td>Title V Major Source Thresholds</td>
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<tr>
<td>NA</td>
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<tr>
<td>PSD Major Source Thresholds</td>
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<td>100</td>
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</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.

(a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because PSD regulated pollutants; PM, PM\(_{10}\), PM\(_{2.5}\), SO\(_2\), NO\(_X\), and CO; are 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 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.

(c) These emissions are based on the TSD of TV Renewal No. 173-36540-00002, issued on August 23, 2016.

### Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an application, submitted by Alcoa Warrick LLC on November 19, 2018, relating to opting out of the acid rain program for three (3) dry bottom, pulverized coal-fired boilers, identified as Boiler No. 1, Boiler No. 2, and Boiler No. 3.

### 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.
Permit Level Determination – Part 70 Modification to an Existing Source and PSD

There are no new emission units or modifications to existing emission units (i.e., no physical change or change in the method of operation occurring at the source) as a result of this modification. See the "Description of Proposed Modification" section above for more detail.

Pursuant to 326 IAC 2-7-12(b)(2), this change to the permit is being made through a Minor Permit Modification because it is a modification to a Part 70 permit that involves the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches.

This change is made possible because the source, as a co-generating station, was not compelled to participate in the Acid Rain Program under Part 72, but opted-in to the program under Part 74. On March 6, 2019, the EPA determined that the source had met the necessary requirements to opt-out of the program. Based on EPA's approval, IDEM accepted the source's request to remove the acid rain requirements for Unit1, Unit2, and Unit3 from the permit.

Federal Rule Applicability Determination

Due to the modification at this source, federal rule applicability has been reviewed as follows:

**New Source Performance Standards (NSPS):**

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

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

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (40 CFR Part 63, 326 IAC 14, and 326 IAC 20) included in the permit for this proposed modification.

State Rule Applicability - Entire Source

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

**326 IAC 2-7-6(5) (Annual Compliance Certification)**

The U.S. EPA Federal Register 79 FR 54978 notice does not exempt Title V Permittees from the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D), but the submittal of the Title V annual compliance certification to IDEM satisfies the requirement to submit the Title V annual compliance certifications to EPA. IDEM does not intend to revise any permits since the requirements of 40 CFR 70.6(c)(5)(iv) or 326 IAC 2-7-6(5)(D) still apply, but Permittees can note on their Title V annual compliance certifications that submission to IDEM has satisfied reporting to EPA per Federal Register 79 FR 54978. This only applies to Title V Permittees and Title V compliance certifications.

**326 IAC 5-1 (Opacity Limitations)**

This source is subject to the opacity limitations specified in 326 IAC 5-1-2(1).

**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 (Particulate Matter Limitations Except Lake County)**

Pursuant to 326 IAC 6.5-1-1(a), this source (located in Warrick County) is not subject to the requirements of 326 IAC 6.5 because it is not located in one of the following counties: Clark, Dearborn, Dubois, Howard, Marion, St. Joseph, Vanderburgh, Vigo or Wayne.
**326 IAC 6.8 (Particulate Matter Limitations for Lake County)**

Pursuant to 326 IAC 6.8-1-1(a), this source (located in Warrick County) is not subject to the requirements of 326 IAC 6.8 because it is not located in Lake County.

**326 IAC 6.8 (Lake County: Fugitive Particulate Matter)**

Pursuant to 326 IAC 6.8-10-1, this source (located in Warrick County) is not subject to the requirements of 326 IAC 6.8-10 because it is not located in Lake County.

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**State Rule Applicability – Individual Facilities**

There are no new or modified state rule for Boilers 1, 2, and 3 due to this modification.

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**Compliance Determination and Monitoring Requirements**

There are no new or modified compliance requirements included with this modification.

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**Proposed Changes**

As part of this permit approval, the permit may contain new or different permit conditions and some conditions from previously issued permits/approvals may have been corrected, changed, or removed. These corrections, changes, and removals may include Title I changes.

The following changes listed below are due to the proposed modification. Deleted language appears as *strikethrough* text and new language appears as **bold** text (these changes may include Title I changes):

1. Three units in section E.1 have been removed because the source has opted out of the Acid Rain Program for Boilers 1, 2, and 3. Additionally, IDEM previously inadvertently omitted Boiler 4 from section E.1, therefore the omission has been corrected to include the boiler subject to acid rain program requirements.

**SECTION E.1 EMISSIONS UNIT OPERATION CONDITIONS**

**EMISSIONS UNIT OPERATION CONDITIONS**

**Emissions Unit Description:**

(a) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 1, construction commenced on July 26, 1956, with an on-line date of April 1960, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-1, which is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 1 was configured with a low NOx burner and over-fire air in 2003. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 1 were installed in 2008.

Note: Boiler No. 1 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. – Warrick Operations (Pit. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]
(b) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 2, construction commenced on July 26, 1956, with an on-line date of January 1964, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-2, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 2 was configured with a low NOx burner and over-fire air in 2004. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 2 were installed in 2008.

Note: Boiler No. 2 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]

(c) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 3, construction commenced on July 26, 1956, with an on-line date of October 1965, with a nominal heat input capacity of 1,589 million Btu per hour (MMBtu/hr), with an electrostatic precipitator (ESP) for control of particulate matter and exhausting to Stack 241-3, is equipped with continuous emissions monitors (CEMS) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulfur dioxide (SO2), and particulate matter (PM). Boiler No. 3 was configured with a low NOx burner and over-fire air in 2002. A dedicated wet limestone slurry absorber scrubber for control of particulate and sulfur dioxide, and modifications to Boiler No. 3 were installed in 2008.

Note: Boiler No. 3 is capable of burning non-hazardous carbon anode production waste from Alcoa Inc. - Warrick Operations (Plt. ID 173-00007).

[Under the Standards of Performance for Industrial-Commercial Steam Generating Units (40 CFR Part 60, Subpart Db), this boiler is considered an affected facility]

[Under NESHAP Subpart DDDDD, this unit is part of an affected source]

(d) One (1) dry bottom, pulverized coal-fired boiler, identified as Boiler No. 4, construction commenced on March 16, 1968, with an electrostatic precipitator (ESP) for control of particulate matter. Boiler No. 4 was configured with a low NOx burner in 1998, a Selective Catalytic Reduction (SCR) system permitted and constructed in 2004, a wet FGD scrubber, which commenced operation in 2008, and a reagent injection system that will reduce sulfuric acid emissions exiting the SCR, constructed in 2009. Boiler No. 4 has a nominal heat input capacity of 2,958 MMBtu/hr, and vents to Stack 243, which has continuous emissions monitors (CEMs) for nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), mercury (Hg, sorbent tube traps), particulate matter (PM) and sulfur dioxide (SO2). Boiler No. 4 has a natural gas burner for start-up and may be fired in conjunction with the coal-fired capability. Construction of a dedicated wet limestone slurry absorber scrubber began in 2005.

[Under NESHAP Subpart UUUUU, this unit is part of an affected source.]

(The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)
E.1.1 Acid Rain Permit [326 IAC 2-7-5(1)(C)] [326 IAC 21] [40 CFR 72 through 40 CFR 78]

Pursuant to 326 IAC 21 (Acid Deposition Control), the Permittee shall comply with all provisions of the Acid Rain permit issued for this source, and any other applicable requirements contained in 40 CFR 72 through 40 CFR 78. The Acid Rain permit for this source is attached to this permit as Appendix A, and is incorporated by reference.

E.1.2 Title IV Emissions Allowances [326 IAC 2-7-5(4)] [326 IAC 21]

Emissions exceeding any allowances that the Permittee lawfully holds under the Title IV Acid Rain Program of the Clean Air Act are prohibited, subject to the following limitations:

(a) No revision of this permit shall be required for increases in emissions that are authorized by allowances acquired under the Title IV Acid Rain Program, provided that such increases do not require a permit revision under any other applicable requirement.

(b) No limit shall be placed on the number of allowances held by the Permittee. The Permittee may not use allowances as a defense to noncompliance with any other applicable requirement.

(c) Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act.

Additional Changes

IDEM, OAQ made additional changes to the permit as described below in order to provide clarification regarding the requirements of these conditions and to fix a typographical error.

D.1.1 Prevention of Significant Deterioration (PSD) Minor Limits [326 IAC 2-2]

In order to render PSD (Prevention of Significant Deterioration) not applicable, the following shall apply:

(a) The PM emissions limits for Boilers No. 1, No. 2, No. 3 and No. 4

(1) The PM emissions from Boilers No. 1, No. 2, and No. 3, combined, shall not exceed 1060.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

(2) The PM emissions from Boiler No. 4 shall not exceed 1425.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

The PM emissions from Boilers No. 1, No. 2, No. 3 and No. 4 shall be determined by PM-CEMS output, determined on a 24 hour average.

Compliance with the above PM limits and Condition D.4.2 shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to Significant Source Modifications No.: 173-22006-00002.

(b) The NOx emissions from Boilers No. 1, No. 2, No. 3 and Boiler No. 4, combined, shall not exceed 13,720.0 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with the above NOx limit and Condition D.5.1 (a), shall render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable to the Significant Source Modification No.: 173-22006-00002.
(d) The PM10 emissions from Boilers No. 1, No. 2, and No. 3, and Boiler No. 4, combined, shall not exceed 4490.00 tons per twelve (12) consecutive month period with compliance determined at the end of each month and the PM10 emissions from Boilers No. 1, No. 2, No. 3 and No. 4 shall be a value established during the latest compliant stack test for the respective boiler. The following equation shall be utilized to determine compliance:

\[
\text{PM10 emissions} = [(\text{PM10 E.F. No. 1 x H.E. No. 1}) + (\text{PM10 E.F. No. 2 x H.E. No. 2}) + (\text{PM10 E.F. No. 3 x H.E. No. 3}) + (\text{PM10 E.F. No. 4 x H.E. No. 4})]
\]

Where:

- PM10 E.F. No. 1 = lb PM10/MMBtu heat input to the Boiler No. 1 established during the latest compliance stack test for this operating condition.
- PM10 E.F. No. 2 = lb PM10/MMBtu heat input to the Boiler No. 2 established during the latest compliance stack test for this operating condition.
- PM10 E.F. No. 3 = lb PM10/MMBtu heat input to the Boiler No. 3 established during the latest compliance stack test for this operating condition.
- PM10 E.F. No. 4 = lb PM10/MMBtu heat input to Boiler No. 4 established during the latest compliance stack test when the SCR is not in operation.
- H.E. No. 1 = Heat Input (MMBtu) to Boiler No. 1
- H.E. No. 2 = Heat Input (MMBtu) to Boiler No. 2
- H.E. No. 3 = Heat Input (MMBtu) to Boiler No. 3
- H.E. No. 4 = Heat Input (MMBtu) to Boiler No. 4 when the SCR is not in operation.

Compliance with the above PM10 limit and Condition D.4.2 shall render the requirements of [326 IAC 2-2] (Prevention of Significant Deterioration (PSD)) not applicable to Significant Source Modifications No.: 173-22006-00002.

D.1.2 Emission Offset Minor Limits for PM2.5 [326 IAC 2-3]

The PM2.5 emissions from Boilers No. 1, No. 2, No. 3, and Boiler No. 4, combined, shall not exceed 4490.00 tons per twelve (12) consecutive month period with compliance determined at the end of each month and the PM2.5 emissions from Boilers No. 1, No. 2, No. 3 and No. 4 shall be a value established during the latest compliant stack test for the respective boiler. The following equation shall be utilized to determine compliance:

\[
\text{PM2.5 emissions} = [(\text{PM2.5 E.F. No. 1 x H.E. No. 1}) + (\text{PM2.5 E.F. No. 2 x H.E. No. 2}) + (\text{PM2.5 E.F. No. 3 x H.E. No. 3}) + (\text{PM2.5 E.F. No. 4 x H.E. No. 4})]
\]

Where:

- PM2.5 E.F. No. 1 = lb PM2.5/MMBtu heat input to Boiler No. 1 established during the latest compliance stack test.
- PM2.5 E.F. No. 2 = lb PM2.5/MMBtu heat input to Boiler No. 2 established during the latest compliance stack test.
- PM2.5 E.F. No. 3 = lb PM2.5/MMBtu heat input to Boiler No. 3 established during the latest compliance stack test.
- PM2.5 E.F. No. 4 = lb PM2.5/MMBtu heat input to Boiler No. 4 established during the latest compliance stack test when the SCR is not in operation.
H.E. No. 1 = Heat Input (MMBtu) to Boiler No. 1  
H.E. No. 2 = Heat Input (MMBtu) to Boiler No. 2  
H.E. No. 3 = Heat Input (MMBtu) to Boiler No. 3  
H.E. No. 4 = Heat Input (MMBtu) to Boiler No. 4 when the SCR is not in operation  

Compliance with the above PM2.5 limits and Condition D.42.3 shall render the requirements of 326 IAC 2-3 (Emission Offset) not applicable to Significant Source Modifications No.: 173-22006-00002.

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 November 19, 2018. Additional information was received on February 1, 2019.

The operation of this proposed modification shall be subject to the conditions of the attached proposed Minor Permit Modification No. 173-40732-00002.

The staff recommends to the Commissioner that the Part 70 Minor Permit Modification.

IDEM Contact

(a) If you have any questions regarding this permit, please contact Jared Karban, 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) 233-4230 or (800) 451-6027, and ask for Jared Karban or (317) 233-4230.

(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.
October 8, 2019

Anna Bogan
ALCOA Warrick, LLC
4000 West State Road 66
Newburgh, IN 47630

Re: Public Notice
ALCOA Warrick, LLC
Permit Level: Title V Minor Permit Mod
Permit Number: 173-40732-00002

Dear Ms. Bogan:

Enclosed is a copy of your draft Title V Minor 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 Ohio Township Public Library, 4111 Lakeshore Drive in Newburgh, IN. 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 Jared Karban, 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 3-4230 or dial (317) 233-4230.

Sincerely,

Theresa Weaver
Theresa Weaver
Permits Branch
Office of Air Quality

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

To: Ohio Township 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: ALCOA Warrick, LLC
Permit Number: 173-40732-00002

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

October 8, 2019
ALCOA Warrick, LLC
173-40732-00002

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.

Enclosure
PN AAA Cover Letter 4/12/2019
AFFECTED STATE NOTIFICATION OF PUBLIC COMMENT PERIOD
DRAFT INDIANA AIR PERMIT

October 8, 2019

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

**Permit Number:** 173-40732-00002  
**Applicant Name:** ALCOA Warrick, LLC  
**Location:** Newburgh, Warrick 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/](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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<th>IDEM Staff</th>
<th>TAWEAVER 10/8/2019 ALCOA Warrick LLC 173-40732-00002 (draft)</th>
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<tr>
<td>Name and address of Sender</td>
<td>Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204</td>
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<tr>
<td>Type of Mail:</td>
<td>CERTIFICATE OF MAILING ONLY</td>
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<td>Warrick County Board of Commissioners 107 W. Locust Street Suite # 301 Boonville IN 47601-0585 (Local Official)</td>
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<td>Mr. Don Mottley Save Our Rivers 6222 Yankeetown Hwy Boonville IN 47601 (Affected Party)</td>
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<td>Newburgh Town Council and Town Manager P.O Box 6 Newburgh IN 47630 (Local Official)</td>
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<td>Mr. Mark Wilson Evansville Courier &amp; Press P.O. Box 268 Evansville IN 47702-0268 (Affected Party)</td>
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<td>Christian Borowiecki Vanderburgh County Health Dept. 420 Mulberry St. Evansville IN 47713 (Affected Party)</td>
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<td>Mr. Bil Musgrove PO Box 520 Chandler IN 47610 (Affected Party)</td>
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<td>Ohio Township Public Library System 4111 Lakeshore Drive, P.O Box 850 Newburgh IN 47630 (Library)</td>
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<td>David Boggs 216 Western Hills Dr Mt Vernon IN 47620 (Affected Party)</td>
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<td>John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)</td>
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Total number of pieces Listed by Sender | Total number of Pieces Received at Post Office | Postmaster, Per (Name of Receiving employee) | The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is $50,000 per piece subject to a limit of $50,000 per occurrence. The maximum indemnity payable on Express mail 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. |

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