INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: December 27, 2012

RE: Navistar, Inc / 097-32543-00039

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

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

(1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
(2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
(3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

(1) the name and address of the person making the request;
(2) the interest of the person making the request;
(3) identification of any persons represented by the person making the request;
(4) the reasons, with particularity, for the request;
(5) the issues, with particularity, proposed for considerations at any hearing; and
(6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures
FNPER-AM.dot12/3/07

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Mr. Metz
EHS Manager/Navistar, Inc.
5565 Brookville Road
Indianapolis, IN 46219

December 27, 2012

Re: 097-32543-00039
First Administrative Amendment to
Part 70 Renewal No.: T097-30905-00039

Dear Mr: Metz

Navistar, Inc. was issued a Part 70 Operating Permit Renewal on April 19, 2012 for a stationary foundry and engine assembly plants located at 5565 Brookville Road, Indianapolis, in Indiana. A letter requesting changes to this permit was received on November 21, 2012. The source requested that the permit be updated to add insignificant activities to the permit. Pursuant to 326 IAC 2-7-11(a)(2), this change to the permit qualifies as an administrative permit amendment, since it is a revision that adds two (2) diesel emergency fire pumps and one natural gas commercial boiler which are insignificant activities pursuant to 326 IAC 2-7-1(21)(E).

Pursuant to the provisions of 326 IAC 2-7-11, the permit is hereby administratively amended as follows with deleted language as ~~strikeouts~~ and new language **bolded**:

A.3 Specifically Regulated Insignificant Activities
[326 IAC 2-7-1(21)][326 IAC 2-7-4(c)][326 IAC 2-7-5(14)]

...

(n) One (1) emergency fire pump 1, installed in 1974 with a maximum capacity of 0.64 MMBtu/hr [40CFR Part 63, Subpart ZZZZ][326IAC 20-82].

(o) One (1) emergency fire pump 2, installed in 1979 with a maximum capacity of 0.95 MMBtu/hr[40CFR Part 63, Subpart ZZZZ][326IAC 20-82].

(p) One (1) natural gas commercial boiler installed in 2012 with a maximum capacity of 0.1 MMBtu/hr [326 IAC 6.5-1-2(b)(3)].

...

D.5 Facility Operation Conditions

...

(g) (8) One (1) emergency fire pump 1, installed in 1974 with a maximum capacity of 0.64 MMBtu/hr.

(9) One (1) emergency fire pump 2, installed in 1979 with a maximum capacity of 0.95 MMBtu/hr.

(10) One (1) natural gas commercial boiler installed in 2012 with a maximum capacity of 0.1 MMBtu/hr.

...

D.5.3 Particulate Emission Limitations [326 IAC 6.5-1-2(a)]

...

(c) Pursuant to 326 IAC 6.5-1-2(b)(3), particulate emissions from the natural gas commercial boiler shall not exceed 0.01 grains per dry standard cubic foot

...

SECTION E.2 FACILITY OPERATION CONDITIONS

...

(e) One (1) emergency fire pump 1, installed in 1974 with a maximum capacity of 0.64 MMBtu/hr.

(f) One (1) emergency fire pump 2, installed in 1979 with a maximum capacity of 0.95 MMBtu/hr.

...

E.2.2 National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

(a) Pursuant to CFR Part 63, Subpart ZZZZ (included as Attachment E of this permit), the Permittee shall comply with the provisions of National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, which are incorporated by reference as 326 IAC 20-82, for the one (1) emergency diesel generator **and two emergency fire pumps 1 & 2** as follows:

...

All other conditions of the permit shall remain unchanged and in effect.

This decision is subject to the Indiana Administrative Orders and Procedures Act – IC 4-21.5-3-5. If you have any questions on this matter, please contact Diya Bhattacherjee, OAQ, 100 North Senate Avenue, MC 61-53, Room 1003, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Diya Bhattacherjee or extension (5372), or dial (317)234-5372.

Sincerely,

Tripurari Sinha

Tripurari P. Sinha, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachments:
Updated Permit
PTE Calculations

klc

cc: File – Marion County
Marion County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch

Mr. Rick Bacon
Navistar, Inc.
5565 Brookville Rd
Indianapolis, IN 46219

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Part 70 Operating Permit Renewal
OFFICE OF AIR QUALITY
Navistar, Inc
5565 Brookville Road
Indianapolis, Indiana 46219

(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. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions

Operation Permit No.: 097-30905-00039	
Issued by: Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: April 19, 2012 Expiration Date: April 19, 2017

Operation Permit No.: 097-32543-00039	
Issued by: Tripurari P. Sinha Tripurari P. Sinha, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: December 26, 2012 Expiration Date: April 19, 2017

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Certification
Emergency Occurrence Report
Quarterly Report
Quarterly Deviation and Compliance Monitoring Report
Semiannual Compliance Report

Attachment A: NESHAP 40 CFR 63, Subpart EEEEE

Attachment B: NESHAP 40 CFR 63, Subpart ZZZZ

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 grey iron foundry, metal machining operations, engine testing, and engine assembly source.

Source Address:	5565 Brookville Road, Indianapolis, Indiana 46219
General Source Phone Number:	317-352-4500
SIC Code:	3321 and 3519
County Location:	Marion
Source Location Status:	Nonattainment for PM2.5 Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD Rules Major Source, under NA NSR for PM2.5 Major Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

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

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

Coremaking Operations

(a) One (1) sand receiving and handling system, identified as emission unit EU-F01, constructed in 1962, with a maximum capacity of one hundred twenty (120) tons of sand per hour, with portions of the sand receiving and handling system's emissions controlled by the "Snow Room" dust collector, and exhausting through stack SV-10A.

(b) Thirteen (13) cold box core machines, each with its own mixer, collectively identified as emission unit EU-F02, using a two (2) part phenolic urethane resin system with a nominal resin content of 2.5% and an amine gas as a catalyst with a nominal usage rate of 1.9 pounds per ton of cores to activate the resin to produce the finished product, with emissions controlled by wet scrubbers #2, #3, #4, and #5, and exhausting through stacks SV-11A, SV-11B, SV-11C, and SV-12. The individual cold box core machines have the following construction dates and capacities.

Machine	Machine Description	Construction Date	Capacity (tons of cores/hr)	Scrubber ID	Stack Vent ID
EU-F02H	5050 EAST	1989	9.3	#2	SV-11C
EU-F02B	CB30	1977	6.05	#2	
EU-F02I	5050 WEST	1989	3.5	#2	
EU-F02D	4040 #2	1985	2.18	#3	SV-11B
EU-F02K	4040 #3	1991	3.07	#3	
EU-F02L	4040 #4	1991	3.5	#3	
EU-F02A	NORTH ISOCURE	1977	2.77	#4	SV-11A
EU-F02C	SOUTH ISOCURE	1979	2.77	#4	
EU-F02E	3540 NORTH	1988	1.96	#5	SV-12
EU-F02F	4040 #5	1989	1.74	#5	
EU-F02G	4040 #6	1989	1.74	#5	
EU-F02J	3540 SOUTH	1990	1.67	#5	
EU-F02M	4040 #7	1995	1.74	#5	

EU-F02 is considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(c) One (1) core line collectively identified as emission unit EU-28, constructed in 1999, with a maximum capacity of 7.9 tons of cores per hour, consisting of the following:

(1) Three (3) sand receiving bins, identified as emission units EU-28B, EU-28C, and EU-28D, with emissions controlled by one dust collector below 4,000 acfm, and exhausting through stack SV-28B.

(2) Three (3) cold box core machines, each with its own mixer, collectively identified as EU-28A, each having a maximum capacity of 2.63 tons cores per hour with a nominal resin content of 2.5% and with a nominal catalyst gas usage rate of 1.9 pounds per ton of cores with amine gas emissions controlled by wet scrubber #1, and exhausting through stack SV-28A.

EU-28A is subject to the applicable requirements of 40 CFR 63, Subpart EEEEE.

Melting Operations

(d) One (1) Phase I melting process, collectively identified as emission unit EU-F04, constructed in 1971, with a maximum charge capacity of twenty (20) tons of metal per hour, comprised of the following:

(1) One (1) natural gas-fired scrap preheater Phase I, constructed in 1989 and modified in 2000, with a maximum heat input capacity of nineteen and a half (19.5) million British thermal units per hour; and

(2) Three (3) electric induction furnaces, #1, #2, and #3, with a maximum melt rate of twenty (20) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions are controlled by the EM-1 Baghouse which exhausts through stack SV-14. This baghouse does not control emissions from the ladles. The Phase I scrap preheater and electric induction furnaces #1, #2, and #3 associated with EU-F04 are considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(e) One (1) Phase II melting process, collectively identified as emission unit EU-F05, constructed in 1971, with a maximum charge capacity of twenty (20) tons of metal per hour, comprised of the following:

(1) One (1) natural gas-fired scrap preheater Phase II, constructed in 1989 and modified in 2000, with a maximum heat input capacity of nineteen and a half (19.5) million British thermal units per hour; and

(2) Three (3) electric induction furnaces, #4, #5 and #6, with a maximum melt rate of twenty (20) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions are controlled by the EM-2 Baghouse which exhausts through stack SV-15. This baghouse does not control emissions from the ladles. The Phase II scrap preheater and electric induction furnaces #4, #5, and #6 associated with EU-F05 are considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(f) One (1) Phase III melting process, collectively identified as EU-F19, constructed in 1998, with a maximum charge capacity of twenty-five (25) tons of metal per hour, comprised of the following:

(1) One (1) natural gas fired Phase III dryer, identified as EU-F19A, with a maximum heat input capacity of seven hundred fifty thousand (750,000) British thermal units per hour; and

(2) Two (2) grey iron electric induction furnaces, constructed in 1998 and 1999, respectively, collectively identified as EU-F19B, with a maximum melt rate of twenty-five (25) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation, identified as EU-F19C; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions from these units are controlled by two baghouses identified as EM-3 baghouse constructed in 2000 and EM-3B baghouse constructed in 2006. The EM-3 baghouse controls the two induction furnaces (EU-F19B) and exhausts through stack SV-33. The

EM-3B baghouse controls the Phase III dryer (EU-F19A) and exhausts through stack SV-33a. These baghouses do not control emissions from the ladles. EU-F19B is subject to the applicable requirements of 40 CFR 63, Subpart EEEEE.

Molding, Pouring/Cooling and Sand Handling Operations

(g) One (1) M3 molding line, identified as emission unit EU-F06, constructed in 1976, consisting of casting punch out, casting shakeout, a storage hopper and a sand muller, with a maximum capacity of sixty (60) tons of casting per hour, with emissions controlled by the M3 Baghouse which exhausts through stacks SV-16a and SV-16b.

(h) One (1) M3 mold casting cooling (Fume Tunnel M3) operation, identified as emission unit EU-F07, constructed in 1974, with a maximum capacity of sixty (60) tons of casting per hour, with emissions uncontrolled, and exhausting through stacks SV-17A East, SV 17-A West, SV17-B, SV-17C East, SV-17C West, SV-17D, SV-17E and SV-27A.

(i) One (1) M1 mold pouring operation, identified as emission unit EU-F08, constructed in 1957, with a maximum capacity of thirty (30) tons of metal poured per hour, with emissions uncontrolled, and exhausting through stacks SV-19A and SV-19B. EU-F08 is considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(j) One (1) M1 mold casting cooling (Fume Tunnel M1) operation, identified as emission unit EU-F09, constructed in 1957, with a maximum capacity of thirty (30) tons of metal poured per hour, with emissions uncontrolled, and exhausting through stacks SV-19A and SV-19B.

(k) One (1) molding operation, identified as emission unit EU-F10, constructed in 1976, consisting of the M1 sand system and M1 sand cooler and M1 and M3 casting cooling, with maximum sand throughput of one hundred fifty (150) tons per hour, with emissions controlled by the Phase III South baghouse and the Phase V baghouse, and exhausting through stacks SV-20A through SV-20B and stacks SV-23 a, b, and c respectively.

(l) The M3 sand cooler system, identified as emission unit EU-F10A, constructed in 1976 with a nominal sand throughput of three hundred thirty (330) tons per hour and a maximum capacity of five hundred (500) tons per hour, with emissions controlled by the Phase III North baghouse and exhausting through Stack SV-20c.

(m) One (1) casting vibratory conveyor and casting cooling operation, identified as emission unit EU-F11, constructed in 1977, consisting of casting punch out, shakers, casting shakeout, and casting cooling, with a maximum capacity of ninety (90) tons of metal poured per hour, with emissions controlled by the Phase IV baghouse, and exhausting through stacks SV-21A through SV-21D.

(n) One (1) M3 mold pouring operation, identified as emission unit EU-F17, constructed in 1974, with a maximum capacity of sixty (60) tons of metal poured per hour, with emissions uncontrolled, and exhausting through stacks SV-27A through SV-27C. EU-F17 is considered part of the affected source under 40 CFR 63, Subpart EEEEE. The M3 mold pouring operation modified in 2011 includes: One Compacted Graphite Iron (CGI) ladle metallurgy process, consisting of two stations; with a capacity of 30 tons/hour, 80%

of particulate emissions controlled by a baghouse identified as the Phase 14 Dust Collector, exhausting to Stack SV-35. CGI molds will be poured at the existing M-1 pouring station and then will return to the M-3 casting line.

Note: CGI molds will be poured at the existing M-1 pouring station with a maximum capacity of 30 tons per hour and then will return to the M-3 mold pouring operation.

Casting Cleaning and Finishing Operations

(o) One (1) casting cleaning operation, identified as emission unit EU-F12, constructed in 1989, consisting of a V shot blast machine, with a nominal capacity of 33.7 tons per hour, with emissions controlled by the Phase VII baghouse, and exhausting through stack SV-22.

(p) One (1) casting cleaning operation, identified as emission unit EU-F13, constructed in 1978, consisting of the I-Block grinder and the V-Block grinder, with a combined nominal capacity of 33.7 tons per hour, with emissions controlled by the Phase V baghouse, and exhausting through stacks SV-23A through SV-23C.

(q) One (1) I-Shot blast machine, identified as emission unit EU-F14, constructed in 1989, with a nominal capacity of 27.1 tons per hour, with emissions controlled by the Phase VI baghouse, and exhausting through stack SV-24.

(r) One (1) casting cleaning operation, identified as emission unit EU-F15, constructed in 1975 and modified in 2000, with a nominal capacity of 10.7 tons per hour, consisting of one (1) grinder and one (1) BMD separator, with emissions controlled by the Phase I baghouse, and exhausting through stacks SV-25A and SV-25B.

(s) One (1) waste sand handling operation, identified as emission unit EU-F16, constructed in 1996, consisting of sand storage silos, dump hoppers, and a sand dump, with a maximum capacity of one hundred (100) tons of sand per hour, with emissions controlled by the Phase VIII baghouse, and exhausting through stack SV-34.

Engine Plant Grinding/Broaching Operation

(t) One (1) head grinding operation, identified as EU-F06N, constructed in 2003, with a rated capacity of five (5) tons per hour, with emissions controlled by a 21,000 cfm baghouse, exhausting to stack SV-06N, when not redirected to exhaust indoors.

(u) One (1) block broaching operation, identified as EU-F07N, constructed in 2003, with a rated capacity of ten (10) tons per hour, with emissions controlled by a 21,000 cfm baghouse, exhausting to stack SV-07N, when not redirected to exhaust indoors.

A.3 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) Paved and unpaved roads and parking lots with public access [326 IAC 6-4].

(b) 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 8-3-5]

(c) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing less than five tenths (0.5) percent sulfur by weight:

(1) One (1) distillate oil-fired boiler, for emergency purposes only, identified as IS-E02, constructed in 1974, located in pump house building #37, with a maximum capacity of 1.5 million British thermal units per hour. [326 IAC 6.5-1-2(b)(2)]

(d) A gasoline fuel transfer dispensing operation handling less than or equal to one thousand three hundred (1,300) gallons per day and filling storage tanks having a capacity equal to or less than ten thousand five hundred (10,500) gallons. Such storage tanks may be in a fixed location or on mobile equipment. [326 IAC 2-7-1(21)(G)(ii)(AA)]

(e) A petroleum fuel other than gasoline dispensing facility, having a storage tank capacity less than or equal to ten thousand five hundred (10,500) gallons, and dispensing three thousand five hundred (3,500) gallons per day or less. [326 IAC 2-7-1(21)(G)(ii)(BB)]

(f) Emergency generators as follows: gasoline generators not exceeding 110 horsepower; diesel generators not exceeding 1600 horsepower; natural gas turbines or reciprocating engines not exceeding 16,000 horsepower which include the following:

(1) One (1) stand-by diesel generator, identified as IS-E05, with a maximum capacity of 325 horse power, respectively. [326 IAC 6.5-1-2]

(g) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone which include the following:

(1) Two (2) trimmers, identified as IS-E06 and IS-E07, equipped with a dust collector. [326 IAC 6.5-1-2]

(h) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations which include the following:

(1) Core sand hopper and mixing operations, identified as IS-F04, which take place immediately upstream of the cold box core machines. [326 IAC 6.5-1-2]

(2) Two (2) sand storage silos and three (3) bond storage silos, collectively identified as IS-F01. [326 IAC 6.5-1-2]

(3) Batch sand mullers and one (1) sand heater. [326 IAC 6.5-1-2]

(4) Core sand storage in buildings. [326 IAC 6.5-1-2]

(i) Emission units with PM and PM10 emissions less than five (5) tons per year, SO_2, NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year which include the following:

(1) One (1) miscellaneous grinding operation, identified as IS-E03, controlled by multi-clones and vented inside. [326 IAC 6.5-1-2]

(2) Laser welders. [326 IAC 6.5-1-2]

(3) Induction Hardening heat treatment operations. [326 IAC 6.5-1-2]

(4) Holding furnaces. [326 IAC 6.5-1-2]

(5) CNC machines

(j) Research and Development activities conducted under close supervision of technically trained personnel that are not engaged in the manufacture of products for sale, exchange for commercial profit, or distribution which include the following:

(1) One (1) 500 kW electric furnace, identified as IS-F05, with a 1,000 pound per hour capacity. [326 IAC 6.5-1-2]

(k) Noncontact cooling tower systems with natural draft not regulated under a NESHAP. [326 IAC 6.5-1-2]

(l) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour which include the following:

(1) Five (5) natural gas-fired drying ovens located with the cold box core machines collectively identified as emission unit EU-F02.

(2) One (1) natural gas-fired drying oven rated at 3.60 MMBtu/hr located with the Loramendi core line identified as emission unit EU-28. [326 IAC 6.5-1-2]

(3) One (1) 2.5 MMBtu/hr Hagan Oven, identified as EU-F21. [326 IAC 6.5-1-2]

(m) Brazing, cutting torches, soldering and welding activities not resulting in the emission of HAP. [326 IAC 6.5-1-2]

(n) One (1) emergency fire pump 1, installed in 1974 with a maximum capacity of 0.64 MMBtu/hr [40 CFR Part 63, Subpart ZZZZ][326 IAC 20-82].

(o) One (1) emergency fire pump 2, installed in 1979 with a maximum capacity of 0.95 MMBtu/hr [40 CFR Part 63, Subpart ZZZZ][326 IAC 20-82]. .

(p) One (1) natural gas commercial boiler installed in 2012 with a maximum capacity of 0.1 MMBtu/hr [326 IAC 6.5-1-2(b)(3)].

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

This stationary source also includes the following insignificant activities as defined in 326 IAC 2-7-1(21), which are not specifically regulated:

(a) Slag removal from ladles, corebox cleaning, ladle preheater area, slag dumping, ladle relining, refractory application, core debining, core assembly, pattern cleaning and refuse sand loading.

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

(c) Combustion source flame safety purging on startup. [326 IAC 2-7-1(21)(G)(i)(CC)]

(d) The following VOC and HAP storage containers:

(1) Storage tanks with capacity less than or equal to one thousand (1,000) gallons and annual throughputs equal to or less than twelve thousand (12,000) gallons. [326 IAC 2-7-1(21)(G)(iii)(AA)]

(2) Vessels storing the following: lubricating oils, hydraulic oils, machining oils or machining fluids. [326 IAC 2-7-1(21)(G)(iii)(BB)]

(e) Refractory storage not requiring air pollution control equipment. [326 IAC 2-7-1(21)(G)(iv)]

(f) Space heaters, process heaters, heat treat furnaces, or boilers using the following fuels [326 IAC 2-7-1(21)(K)(i)(AA):

(1) Propane or liquefied petroleum gas or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) British thermal units per hour.

(2) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing equal to or less than five-tenths percent (0.5%) sulfur by weight.

(3) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour.

(g) Application of oils, greases, lubricants and other nonvolatile material as temporary protective coatings. [326 IAC 2-7-1(21)(G)(vi)(AA)]

(h) Machining where an aqueous cutting coolant continuously floods the machining interface. [326 IAC 2-7-1(21)(G)(vi)(BB)]

(i) Cleaners and solvents:

(1) Having a vapor pressure equal to or less than two (2.0) kilo Pascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pound per square inch) measured at thirty-eight (38) degrees Centigrade (one hundred (100) degrees Fahrenheit); or

(2) Having a vapor pressure equal to or less than seven-tenths (0.7) kilo Pascal (five (5) millimeters of mercury or one-tenth (0.1) pound per square inch) measured at twenty (20) degrees Centigrade (sixty-eight (68) degrees Fahrenheit) the use of which, for all cleaners and solvents combined, does not exceed one hundred forty-five (145) gallons per twelve (12) months. [326 IAC 2-7-1(21)(G)(vi)(DD)]

(j) Closed loop heating and cooling systems. [326 IAC 2-7-1(21)(G)(vi)(FF)]

(k) Infrared cure equipment. [326 IAC 2-7-1(21)(G)(vi)(GG)]

(l) Any operation using aqueous solutions containing less than or equal to one percent (1%) by weight of VOCs excluding HAPs. [326 IAC 2-7-1(21)(G)(ix)(DD)]

(m) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment. [326 IAC 2-7-1(21)(G)(x)(AA)]

(n) Routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process, including the following:

(1) Purging of gas lines.

(2) Purging of vessels. [326 IAC 2-7-1(21)(G)(xvii)]

(o) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including the following:

(1) Catch tanks,

(2) Temporary liquid separators,

(3) Tanks, and

(4) Fluid handling equipment. [326 IAC 2-7-1(21)(G)(xix)]

(p) On-site fire and emergency response training approved by IDEM. [326 IAC 2-7-1(21)(G)(xxii)(AA)]

(q) Stationary fire pumps. [326 IAC 2-7-1(21)(G)(xxii)(CC)]

(r) Purge double block and bleed valves. [326 IAC 2-7-1(21)(G)(xxiv)]

(s) Filter or coalescer media changeout. [326 IAC 2-7-1(21)(G)(xxv)]

(t) Mold release agents using low volatile products (vapor pressure less than or equal to two (2) kilo Pascals measured at thirty-eight (38) degrees Centigrade). [326 IAC 2-7-1(21)(G)(xxii)]

(u) Heat exchanger cleaning and repair [326 IAC 2-7-1 (21)(G)(X)(BB)]

(v) Blowdown from sight glasses; boilers; compressors; pumps and cooling towers [326 IAC 2-7-1(21)(G)(xx)]

(w) Furnaces used for melting metals other than beryllium with a brim full capacity equal to or less than four hundred fifty (450) cubic meters by volume [326 IAC 2-7-1(21)(G)(xxi)].

(x) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to one percent (1%) by volume [326 IAC 2-7-1(21)(G)(ix)(AA)].

(y) Water-based adhesives that are less than or equal to five percent (5%) by volume of VOCs excluding HAPs. [326 IAC 2-7-1(21)(G)(ix)(EE)].

(z) Noncontact cooling towers with forced or induced draft systems not regulated by a NESHAP. [326 IAC 2-7-1(21)(G)(ix)(FF)(bb)].

(aa) Quenching operations used with heat treating processes [326 IAC 2-7-1(21)(G)(ix)(GG)]

(bb) Two (2) 4,500 gallon phenolic urethane resin storage tanks identified as IS-20 and IS-21, each constructed in 1987, and one (1) 6,800 gallon Part II isocyanate resin storage tank identified as IS-22 constructed in 1985.

(cc) Routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process, including:

One (1) woodworking operation controlled by a cyclone

A.5 Part 70 Permit Applicability [326 IAC 2-7-2]

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

(a) It is a major source, as defined in 326 IAC 2-7-1(22);

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, 097-32543-00039, 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(34), 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(34).

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

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

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

and

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

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

(c) The annual compliance certification report shall include the following:

(1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and

(5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

The Permittee shall implement the PMPs.

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

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

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

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

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, no later than 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

(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

no later than 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(34).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) 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.

(h) The Permittee shall include all emergencies lasting one (1) hour or more in the Quarterly Deviation and Compliance Monitoring Report unless the emergency report made pursuant to Condition B.11(b)(5) included a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

(c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.

(d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;

(2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and

(4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

(e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).

(f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]

(g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

(h) In addition to the nonapplicability determinations set forth in Section D of this permit, the IDEM, OAQ has made the following determinations regarding this source:

(1) 40 CFR 60.40c, Subpart Dc - Standards of Performance of Small Industrial-Commercial-Institutional Steam Generating Units.

The conversion of the boilers, identified as EU-01A, EU-01B and EU-01C from firing coal to firing natural gas in 1993 did not constitute a modification or reconstruction pursuant to 40 CFR § 60.2.

(2) New Source Performance Standards for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR Part 60, Subpart Kb].

Storage tanks IS-20, IS-21 and IS-22 each has a storage capacity less than seventy-five (75) cubic meters and, therefore, are not affected facilities and are exempt from the general provisions of 40 CFR Part 60, Subpart A, and from the provisions of 40 CFR Part 60, Subpart Kb, pursuant to 40 CFR § 60.110b.

(3) 326 IAC 2-4.1 (New Source Toxics Control).
The requirements of this rule do not apply to emission units constructed prior to the July 27, 1997 applicability date. The following emission units constructed or modified after July 27, 1997, identified as EU-F06N, EU-F07N, EU-F15, EU-F19, EU-28B, EU-28C, EU-28D, IS-E02, IS-E03, IS-E04, IS-E05, IS-E06, IS-E07, IS-F01 IS-F04, IS-F05, IS-20, and IS-21, each do not have a potential to emit

greater than ten (10) tons per year of a single HAP or a potential to emit twenty-five (25) tons per year of combined HAP. Therefore, the requirements of this rule do not apply to this source.

(4) Emission Standards for Hazardous Air Pollutants for Organic Liquid Distribution [326 IAC 20-83-1] [40 CFR Part 63, Subpart EEEE]

40 CFR § 63.2343 contains notification, recordkeeping, and reporting requirements for emission sources identified in 40 CFR § 63.2338 that do not require control under the rule. The two phenolic urethane resin storage tanks identified as IS-20 and IS-21 are not subject to control under the rule because they have capacities less than 5,000 gallons. Pursuant to 40 CFR § 63.2343(a), Permittee must keep documentation that verifies that IS-20 and IS-21 are each not required to be controlled. Documentation must be kept up-to-date and must be in a form suitable and readily available for expeditious inspection and review according to 40 CFR § 63.10(b)(1), including records stored in electronic form in a separate location. (For purposes of IS-20 and IS-21, the documentation may consist of identification of the tanks on a plant site plan or process and instrumentation diagram (P & ID)). The Part II isocyanate resin storage tank, identified as IS-22, is not subject to Subpart EEEE because the Part II isocyanate resin has an annual average true vapor pressure of less than 0.7 kilopascals (0.1 psia).

(5) Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [326 IAC 20-82-1] [40 CFR Part 63, Subpart ZZZZ]

Pursuant to 40 CFR § 63.6585, Reciprocating Internal Combustion Engines (RICE) that are being tested at a stationary RICE test cell/stand are exempt from 40 CFR Part 63, Subparts A and ZZZZ. The only other RICE used by Permittee are two (2) stand-by diesel generators, identified as IS-E04 and IS-E05, which are used only for emergency purposes, and these RICE were constructed before December 19, 2002 and have not been reconstructed since that date. Permittee's RICE, identified as IS-E04 and IS-E05, used for emergency purposes are subject to Subpart ZZZZ; however, because IS-E04 and IS-E05 are existing RICE used for emergency purposes, they are not subject to any emission limitations or other requirements under Subpart ZZZZ and are exempt from the initial notification and other requirements of 40 CFR Part 63, Subpart A, pursuant to 40 CFR § 63.6590.

(6) National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Stands [326 IAC 20-75-1][40 CFR Part 63, Subpart PPPPP]

The engine test cells/stand identified as EU-E03E, are subject to 40 CFR 63, Subpart PPPPP.

Because the Permittee commenced construction or reconstruction of the engine test cells/stands, identified as emission unit EU-E03E and the four (4) cold engine test cells with the ability to perform both cold engine tests and cylinder contribution audits, prior to May 14, 2002, the standard for engine test

cells/stands does not include any limitations for existing affected sources, and all of these engine test cells/stands are part of the existing affected source. While the standard is applicable, there are no technical or administrative requirements that apply pursuant to 40 CFR § 63.9290. The facility is also not required to file the initial notification and is not subject to the other requirements of 40 CFR Part 63, Subpart A, pursuant to 40 CFR § 63.9290(b).

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 097-32543-00039 and issued pursuant to permitting programs approved into the state implementation plan have been either:

(1) incorporated as originally stated,

(2) revised under 326 IAC 2-7-10.5, or

(3) deleted under 326 IAC 2-7-10.5.

(b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this combined new source review and part 70 operating permit, 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(34).

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

(1) That this permit contains a material mistake.

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

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

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

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

B.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(40). 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(34).

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 reasonable 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(34).

(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),(c), without a prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;

(3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

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

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

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b). 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), (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(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require 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(34).

(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 SO_2 or NO_X 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(34).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.

(b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of thirty percent (30%) 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 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

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

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

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(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(34).

(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.7 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(34).

(b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require 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(34).

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

Compliance Requirements [326 IAC 2-1.1-11]

C.8 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.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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 or of initial start-up, whichever is later, 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 or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.10 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.

(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.11 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.12 Response to Abnormal or Out-of-Range Compliance Monitoring Measurements [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) Upon detecting a measurement required by a compliance monitoring condition of this permit that is outside the normal or usual range of values for the monitoring parameter, the Permittee shall take reasonable steps to restore operation of the emissions unit(s) (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 are 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 a measurement indicating abnormal or out-of-range values will be based on information available, which may include, but is not necessarily limited to, the following:

(1) monitoring results;

(2) review of operation and maintenance procedures and records and/or;

(3) inspection of the control device, associated capture system, and the process.

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

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

C.13 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(34).

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

C.14 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 no later than 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:

(a) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);

(b) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) (“Regulated pollutant, which is used only for purposes of Section 19 of this rule”) from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
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(34).

C.15 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2][326 IAC 2-3]

(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. 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(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) 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(rr)(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(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(dd) and/or 326 IAC 2-3-1(y)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(pp) and/or 326 IAC 2-3-1(kk)), the Permittee shall comply with following:

(1) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

(2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

C.16 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the 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(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

(b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue

MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

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

(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

(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 (qq) and/or 326 IAC 2-3-1 (ll)) 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 (xx) and/or 326 IAC 2-3-1 (qq), 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.17 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 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]: Coremaking Operations

(g) One (1) sand handling system, identified as emission unit EU-F01, constructed in 1962, with a maximum capacity of one hundred twenty (120) tons of sand per hour, with emissions controlled by the "Snow Room" dust collector, and exhausting through stack SV-10A.

(h) Thirteen (13) cold box core machines, each with its own mixer, collectively identified as emission unit EU-F02, using a two (2) part phenolic urethane resin system with a nominal resin content of 2.5% and an amine gas as a catalyst with a nominal usage rate of 1.9 pounds per ton of cores to activate the resin to produce the finished product, with emissions controlled by wet scrubbers #2, #3, #4, and #5, and exhausting through stacks SV-11A, SV-11B, SV-11C, and SV-12. The individual cold box core machines have the following construction dates and capacities.

Machine	Machine Description	Construction Date	Capacity (tons of cores/hr)	Scrubber ID	Stack Vent ID
EU-F02H	5050 EAST	1989	9.3	#2	SV-11C
EU-F02B	CB30	1977	6.05	#2	
EU-F02I	5050 WEST	1989	3.5	#2	
EU-F02D	4040 #2	1985	2.18	#3	SV-11B
EU-F02K	4040 #3	1991	3.07	#3	
EU-F02L	4040 #4	1991	3.5	#3	
EU-F02A	NORTH ISOCURE	1977	2.77	#4	SV-11A
EU-F02C	SOUTH ISOCURE	1979	2.77	#4	
EU-F02E	3540 NORTH	1988	1.96	#5	SV-12
EU-F02F	4040 #5	1989	1.74	#5	
EU-F02G	4040 #6	1989	1.74	#5	
EU-F02J	3540 SOUTH	1990	1.67	#5	
EU-F02M	4040 #7	1995	1.74	#5	

EU-F02 is considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(i) One (1) core line collectively identified as emission unit EU-28, constructed in 1999, with a maximum capacity of 7.9 tons of cores per hour, consisting of the following:

(1) Three (3) sand receiving bins, identified as emission units EU-28B, EU-28C, and EU-28D, with emissions controlled by one dust collector below 4,000 acfm, and exhausting through stack SV-28B.

(2) Three (3) cold box core machines, each with its own mixer, collectively identified as EU-28A, each having a maximum capacity of 2.63 tons cores per hour with a nominal resin content of 2.5% and with a nominal catalyst gas usage rate of 1.9 pounds per ton of cores with amine gas emissions controlled by wet scrubber #1, and exhausting through stack SV-28A.

EU-28A is considered part of the affected source under 40 CFR 63, Subpart EEEEE.

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

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

D.1.1 VOC Emissions [326 IAC 2-2][326 IAC 2-3][326 IAC 8-1-6] [326 IAC 20][40 CFR 63, Subpart EEEEE]

Pursuant to EPA Order EPA-5-05-IN-13, signed on September 30, 2005, the Permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries (40 CFR 63, Subpart EEEEE) as provided in Section E.1 of this permit for the thirteen (13) cold box core machines collectively identified as emission unit EU-F02, on and after December 1, 2005, regardless of whether triethylamine (TEA) gas or a non-TEA gas is used as the catalyst in connection with EU-F02. Compliance with this condition, satisfies compliance with Prevention of Significant Deterioration (326 IAC 2-2), Emission Offset (326 IAC 2-3), and Best Available Control Technology (326 IAC 8-1-6) for VOC from the 13 cold box core machines (EU-F02).

D.1.2 VOC and HAP Emission Limitations [326 IAC 2-2] [326 IAC 2-4.1] [326 IAC 8-1-6]

The Permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries (40 CFR 63, Subpart EEEEE) as provided in Section E.1 of this permit for coldbox core machine (EU-28A), regardless of whether triethylamine (TEA) gas or a non-TEA gas is used as the catalyst in connection with EU-F28A. Compliance with this condition satisfies the requirements of 326 IAC 8-1-6. Compliance with this condition shall render the requirements of 326 IAC 2-2, Prevention of Significant Deterioration and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants) not applicable to the modification consisting of the construction of the core line.

D.1.3 PSD Minor Limit [326 IAC 2-2]

The PM and PM10 emissions from the sand receiving bins (EU-28B, EU-28C, and EU-28D) combined shall not exceed 3.0 pounds per hour. Compliance with these limitations will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification consisting of the construction of the core line constructed in 1999.

D.1.4 Particulate Emission Limitations [326 IAC 6.5-1-2(a)]

Pursuant to 326 IAC 6.5-1-2(a) (Particulate Emission Limitations), particulate emissions from the sand handling system (EU-F01) and sand receiving bins (EU-28B, EU-28C, EU-28D) shall each not exceed 0.03 grains per dry standard cubic foot.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan (PMP) is required for the 'Snow Room" Dust Collector. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.1.6 Particulate Control [326 IAC 2-7-6(6)]

In order to ensure compliance with Conditions D.1.3 and D.1.4, the "Snow Room" dust collector and small dust collector for particulate control shall be in operation and control emissions from the sand handling system (EU-F01) and sand receiving bins (EU-28B, EU-28C, EU-28D) at all times

that the sand handling system (EU-F01) and sand receiving bins (EU-28B, EU-28C, EU-28D) associated with the respective control device are in operation.

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

D.1.7 Visible Emissions Notations [40 CFR 64]

(a) Visible emission notations of SV-10A stack exhausts from the sand handling system (EU-F01) shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Observation of abnormal emissions that do not violate 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.

D.1.8 Parametric Monitoring [40 CFR 64]

(a) The Permittee shall record the overall pressure drop across the "Snow Room" dust collector used in conjunction with the sand handling system (EU-F01), at least once per day when the process is in operation. When for any one reading, the overall pressure drop across the baghouse is outside the normal range of 2.0 to 6.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Abnormal or Out-of-Range Compliance Monitoring Measurements contains the Permittee's obligation with regard to the reasonable response steps required by this condition. An overall pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.1.9 Broken or Failed Filter and Bag Detection [40 CFR 64]

(a) For a single compartment bin vent filter or baghouse, controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down as soon as safely possible until the failed unit has been repaired or replaced.

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

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

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

D.1.10 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.1.7, the Permittee shall maintain records of visible emission notations of SV-10A stack exhaust 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 a visible emission notation (e.g. the process did not operate that day).

(b) In order to document the compliance status with Condition D.1.8, the Permittee shall maintain records once per day of the overall pressure drop. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

Melting Operations

(j) One (1) Phase I melting process, collectively identified as emission unit EU-F04, constructed in 1971, with a maximum charge capacity of twenty (20) tons of metal per hour, comprised of the following:

(1) One (1) natural gas-fired scrap preheater Phase I, constructed in 1989 and modified in 2000, with a maximum heat input capacity of nineteen and a half (19.5) million British thermal units per hour; and

(2) Three (3) electric induction furnaces, #1, #2, and #3, with a maximum melt rate of twenty (20) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions are controlled by the EM-1 Baghouse which exhausts through stack SV-14. This baghouse does not control emissions from the ladles. The Phase I scrap preheater and electric induction furnaces #1, #2, and #3 associated with EU-F04 are considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(k) One (1) Phase II melting process, collectively identified as emission unit EU-F05, constructed in 1971, with a maximum charge capacity of twenty (20) tons of metal per hour, comprised of the following:

(1) One (1) natural gas-fired scrap preheater Phase II, constructed in 1989 and modified in 2000, with a maximum heat input capacity of nineteen and a half (19.5) million British thermal units per hour; and

(2) Three (3) electric induction furnaces, #4, #5 and #6, with a maximum melt rate of twenty (20) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions are controlled by the EM-2 Baghouse which exhausts through stack SV-15. This baghouse does not control emissions from the ladles. The Phase II scrap preheater and electric induction furnaces #4, #5, and #6 associated with EU-F05 are considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(l) One (1) Phase III melting process, collectively identified as EU-F19, constructed in 1998, with a maximum charge capacity of twenty-five (25) tons of metal per hour, comprised of the following:

(1) One (1) natural gas fired Phase III dryer, identified as EU-F19A, with a maximum heat

input capacity of seven hundred fifty thousand (750,000) British thermal units per hour; and

(2) Two (2) grey iron electric induction furnaces, constructed in 1998 and 1999, respectively, collectively identified as EU-F19B, with a maximum melt rate of twenty-five (25) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation, identified as EU-F19C; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions from these units are controlled by two baghouses identified as EM-3 baghouse constructed in 2000 and EM-3B baghouse constructed in 2006. The EM-3 baghouse controls the two induction furnaces (EU-F19B) and exhausts through stack SV-33. The EM-3B baghouse controls the Phase III dryer (EU-F19A) and exhausts through stack SV-33a. These baghouses do not control emissions from the ladles. EU-F19B is subject to the applicable requirements of 40 CFR 63, Subpart EEEEE.

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

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

D.2.1 Particulate Emission Limitations [326 IAC 6.5-6-26] [326 IAC 6.5-1-2]

(a) Pursuant to 326 IAC 6.5-6-26 (Particulate Emission Limitations-Marion County), the Permittee shall comply with the following limitations:

Control Device	Particulate Emission Limitation (gr/dscf)	Particulate Emission Limitation (ton/yr)
EM-1 Baghouse	0.019	45.7
EM-2 Baghouse	0.020	53.5

(b) Pursuant to 326 IAC 6.5-1-2(e)(2), particulate emissions shall not exceed 0.07 grains per dry standard cubic foot from Phase III melting (EU-F19B).

D.2.2 PSD Minor Limit [326 IAC 2-2]

(a) The combined PM10 emissions from the natural gas fired Phase 3 dryer and two (2) grey iron electric induction furnaces associated with Phase III Melting Process (EU-F19A and EU-F19B) shall be limited to 0.21 pound per ton of metal throughput.

(b) The combined PM emissions from the natural gas fired Phase 3 dryer and two (2) grey iron electric induction furnaces associated with Phase III Melting Process (EU-F19A and EU-F19B) shall be limited to 0.38 pound per ton of metal throughput.

(c) The combined lead emissions from the natural gas fired Phase 3 dryer and two (2) grey iron electric induction furnaces associated with Phase III Melting Process (EU-F19A and EU-F19B) shall be limited to 0.010 pound per ton of metal throughput.

(d) The PM10 emissions from the alloy additions and modifications operation associated with the ladle of the Phase III Melting Process (EU-F19C) shall be limited to 0.05 pound per ton of metal throughput.

(e) The PM emissions from the alloy additions and modifications operation associated with the ladle of the Phase III Melting Process (EU-F19C) shall be limited to 0.05 pound per ton of metal throughput.

(f) The throughput of metal processed by the Phase III Melting Process (EU-F19) shall be limited to 114,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with these conditions limits the PM10, PM and lead emissions from the Phase III Melting Process (EU-F19) to less than 15, 25, and 0.6 tons per year respectively. Therefore, 326 IAC 2-2 does not apply.

D.2.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan (PMP) is required for the EM-3B baghouse. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.2.4 Particulate Control [326 IAC 2-7-6(6)]

In order to ensure compliance with Condition D.2.2, the EM-3B baghouse shall be in operation and control emissions from the Phase III dryer at all times that the Phase III dryer is in operation. The EM-1, EM-2 and EM-3 baghouses are subject to conditions set forth in Section E of this permit.

D.2.5 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) On or before August 21, 2012, in order to demonstrate the compliance status with Condition D.2.1(a), the Permittee shall perform PM testing for the baghouses associated with the Phase II Melting Process (EU-F05), utilizing methods as approved by the Commissioner. This test shall be repeated within every five (5) years from the date of a 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.

(b) On or before February 20, 2013, in order to demonstrate the compliance status with Condition D.2.1(a), the Permittee shall perform PM testing for the baghouses associated with the Phase I Melting Process (EU-F04), utilizing methods as approved by the Commissioner. This test shall be repeated within every five (5) years from the date of a 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.

(c) On or before August 22, 2012, in order to demonstrate the compliance status with Conditions D.2.1(b) and D.2.2(a) and (b), the Permittee shall perform PM and PM10 testing for the Phase III dryer (EU-F19A) and the grey iron electric induction furnaces (EU-F19B), utilizing methods as approved by the Commissioner. This test shall be repeated within every five (5) years from the date of a 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.. PM10 includes filterable PM10 and condensable PM.

(d) On or before August 22, 2012, in order to demonstrate the compliance status with Conditions D.2.2(c), the Permittee shall perform lead testing for EU-F19A and EU-19B, utilizing methods as approved by the Commissioner. This test shall be repeated within every five (5) years from the date of a 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.

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

D.2.6 Visible Emissions Notations [40 CFR 64]

(a) Once per day visible emission notations of SV-33a, stack exhaust from the Phase III dryer shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Observation of abnormal emissions that do not violate 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 Abnormal or Out-of-Range Monitoring Measurements contains the Permittee's obligations with regard to responding to the

reasonable response steps required by this condition.

D.2.7 Parametric Monitoring [40 CFR 64]

(a) The Permittee shall record the overall pressure drop across the EM-3B baghouse used in conjunction with the Phase III dryer, at least once per day when the Phase III dryer is in operation. When for any one reading, the overall pressure drop across the baghouse is outside the normal range of 2.0 to 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Abnormal or Out-of-Range Compliance Monitoring Measurements contains the Permittee's obligation with regard to the reasonable response steps required by this condition. An overall pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.2.8 Broken or Failed Bag Detection [40 CFR 64]

For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down as soon as safely possible until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the line. 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).

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

D.2.9 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.2.6, the Permittee shall maintain records of once per day visible emission notation of SV-33a stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(b) In order to document the compliance status with Condition D.2.7, the Permittee shall maintain records of the overall pressure drop once per day. The Permittee shall include in its daily record when an overall pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

(c) In order to document the compliance status with Condition D.2.2, the Permittee shall keep monthly records of the tons of metal melted in the Phase III melting process.

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

D.2.10 Reporting Requirements

A quarterly summary of the information to document compliance status with Condition D.2.2(f) shall be submitted to IDEM at the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

Molding, Pouring/Cooling and Sand Handling Operations

(m) One (1) M3 molding line, identified as emission unit EU-F06, constructed in 1976, consisting of casting punch out, casting shakeout, a storage hopper and a sand muller, with a maximum capacity of sixty (60) tons of casting per hour, with emissions controlled by the M3 Baghouse which exhausts through stacks SV-16a and SV-16b.

(n) One (1) M3 mold casting cooling (Fume Tunnel M3) operation, identified as emission unit EU-F07, constructed in 1974, with a maximum capacity of sixty (60) tons of casting per hour, with emissions uncontrolled, and exhausting through stacks SV-17-A East, SV-17A West, SV 17-B, SV-17C East, SV-17C West, SV-17D, SV-17E, and SV-27A.

(o) One (1) M1 mold pouring operation, identified as emission unit EU-F08, constructed in 1957, with a maximum capacity of thirty (30) tons of metal poured per hour, with emissions uncontrolled, and exhausting through stacks SV-19A and SV-19B. EU-F08 is considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(p) One (1) M1 mold casting cooling (Fume Tunnel M1) operation, identified as emission unit EU-F09, constructed in 1957, with a maximum capacity of thirty (30) tons of metal poured per hour, with emissions uncontrolled, and exhausting through stacks SV-19A and SV-19B.

(q) One (1) molding operation, identified as emission unit EU-F10, constructed in 1976, consisting of the M1 sand system and M1 sand cooler and M1 and M3 casting cooling, with maximum sand throughput of one hundred fifty (150) tons per hour, with emissions controlled by the Phase III South baghouse and the Phase V baghouse, and exhausting through stacks SV-20A through SV-20B and stacks SV-23 a, b, and c respectively.

(r) The M3 sand cooler system, identified as emission unit EU-F10A, constructed in 1976 with a nominal sand throughput of three hundred thirty (330) tons per hour and a maximum capacity of five hundred (500) tons per hour, with emissions controlled by the Phase III North baghouse and exhausting through Stack SV-20c.

(s) One (1) casting vibratory conveyor and casting cooling operation, identified as emission unit EU-F11, constructed in 1977, consisting of casting punch out, shakers, casting shakeout, and casting cooling, with a maximum capacity of ninety (90) tons of metal poured per hour, with emissions controlled by the Phase IV baghouse, and exhausting through stacks SV-21A through SV-21D.

(t) One (1) M3 mold pouring operation, identified as emission unit EU-F17, constructed in 1974, with a maximum capacity of sixty (60) tons of metal poured per hour, with emissions uncontrolled, and exhausting through stacks SV-27A through SV-27C. EU-F17 is considered part of the affected source under 40 CFR 63, Subpart EEEEE. The M3 mold pouring operation, modified in 2011, includes: One Compacted Graphite Iron (CGI) ladle metallurgy process, consisting of two stations; with a capacity of 30 tons/hour, 80% of particulate emissions controlled by a baghouse identified as the Phase 14 Dust Collector, exhausting to Stack SV-35. CGI molds will be poured at the existing M-1 pouring station and then will return to the M-3 casting line.

Note: CGI molds will be poured at the existing M-1 pouring station with a maximum capacity of 30 tons per hour and then will return to the M-3 mold pouring operation.

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

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

D.3.1 Particulate Emission Limitations [326 IAC 6.5-1-2(a)]

Pursuant to 326 IAC 6.5-1-2(a) (Particulate Emission Limitations), particulate emissions from the M3 mold casting cooling operation (EU-F07), M1 mold pouring operation (EU-F08), M1 mold casting cooling operation (EU-F09), M3 mold pouring operation (EU-F17) and Compacted Graphite iron process shall each not exceed 0.03 grains per dry standard cubic foot.

D.3.2 Particulate Emission Limitations [326 IAC 6.5-6-26]

Pursuant to 326 IAC 6.5-6-26 (Particulate Matter Limitations-Marion County), the Permittee shall comply with the following limitations:

Control Device	Particulate Emission Limitation (gr/dscf)	Particulate Emission Limitation (ton/yr)
M3 Baghouse	0.015	72.4
Phase III Baghouse*	0.020	55.1
Phase IV Baghouse	0.02	99.6
Phase V Baghouse	0.02	62.0

* The Phase III Baghouse includes both North and South baghouses combined.

D.3.3 PSD Minor Limit and Nonattainment NSR Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

The Permittee shall comply with the following for the Compacted Graphite Iron (CGI) constructed in 2011:

(a) PM emissions shall not exceed 24.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

PM = [P x (0.2PMu + 0.8PMc)] / 2000 lbs/ton

Where:

P = 12 consecutive month production of CGI in tons

PMu = Uncontrolled PM emissions, lbs/ton of metal (Until stack test results, the emission rate shall be assumed to be 0.35 lbs/ton of metal)

PMc = Controlled PM emissions, lbs/ton of metal (Until stack test results, the emission rate shall be assumed to be 0.035 lbs/ton of metal).

(b) PM_{10} emissions shall not exceed 14.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

PM_{10} = [P x $(0.2PM_{10}u + 0.8PM_{10}c)$] / 2000 lbs/ton

Where:

P = 12 consecutive month production of CGI in tons

$PM_{10}u$ = Uncontrolled PM_{10} emissions, lbs/ton of metal (Until stack test results, the emission rate shall be assumed to be 0.195 lbs/ton of metal)

$PM_{10}c$ = Controlled PM_{10} emissions, lbs/ton of metal (Until stack test results, the emission rate shall be assumed to be 0.035 lbs/ton of metal).

(c) $PM_{2.5}$ emissions shall not exceed 9.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

$PM_{2.5} = [P \times (0.2PM_{10}u + 0.8PM_{10}c)] / 2000$ lbs/ton

Where:

P = 12 consecutive month production of CGI in tons

$PM_{2.5}u$ = Uncontrolled $PM_{2.5}$ emissions, lbs/ton of metal (Until stack test results, the emission rate shall be assumed to be 0.12 lbs/ton of metal)

$PM_{2.5}c$ = Controlled $PM_{2.5}$ emissions, lbs/ton of metal (Until stack test results, the emission rate shall be assumed to be 0.035 lbs/ton).

Compliance with these limits will ensure that the PM emissions from the Compacted Graphite Iron process are less than 25 tons per year, PM10 emissions less than 15 tons per year and PM2.5 emissions are less than 10 tons per year, and render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable to the 2011 modification.

D.3.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan (PMP) is required for the control devices associated with M3 molding line (EU-F06), molding operation (EU-F10), M3 sand cooler system (EU-F10A), and shakeout operation (EU-F11). Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan.

Compliance Determination Requirement

D.3.5 Particulate Control [326 IAC 2-7-6(6)]

In order to ensure compliance with Conditions D.3.2 and D.3.3, the CGI, M3, Phase III North, Phase III South, Phase IV, and Phase V baghouses shall be in operation and control emissions from the CGI, M3 molding line (EUF06), molding operation (EU-F10), and molding operation (EU-F11) operations at all times that the operations associated with the respective control device are in operation.

D.3.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

(a) In order to demonstrate the compliance status with Condition D.3.2, the Permittee shall perform PM testing for the, M3, Phase III North, Phase III South, Phase IV, and Phase V baghouses utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with 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.

(b) In order to demonstrate the compliance status with Condition D.3.1, the Permittee shall perform PM testing for M3 mold pouring operation (EU-F17) on or before May 8, 2012, M1 mold pouring operation (EU-F08) on or before March 27, 2013, and utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with 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.

(c) Within one hundred and eighty (180) days after the operation of the CGI process, in order to demonstrate the compliance status with Condition D.3.3, the Permittee shall perform the inlet and outlet PM, PM10 and PM2.5 testing on Compacted Graphite Iron process baghouse utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with 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.

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

D.3.7 Visible Emissions Notations [40 CFR 64]

(a) Once per day visible emission notations of SV-16A, SV-16B, SV-20A, SV-20B, SV-20C, SV-21A, SV-21B, SV-21C, SV-21D, SV-28 and SV-23 a, b and c, stack exhausts shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Observation of abnormal emissions that do not violate 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.

D.3.8 Parametric Monitoring [40 CFR 64]

(a) The Permittee shall record the overall pressure drop across each of the baghouses used in conjunction with the M3 molding line (EU-F06), molding operation (EU-F10), M3 sand

cooler system (EU-F10A), and casting vibratory conveyor casting cooling operation (EU-F11) and Compacted Graphite Iron process at least once per day when the M3 molding line (EU-F06), molding operation (EU-F10), M3 sand cooler system (EU-F10A), and/or casting vibratory conveyor casting cooling operation (EU-F11) and Compacted Graphite Iron process are in operation. When for any one reading, the overall pressure drop across the baghouse is outside the normal range of 2.0 to 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Abnormal or Out-of-Range Compliance Monitoring Measurements contains the Permittee's obligation with regard to the reasonable response steps required by this condition. An overall pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.3.9 Broken or Failed Bag Detection [40 CFR 64]

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.

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

D.3.10 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.3.7, the Permittee shall maintain records of once per day visible emission notations of SV-16A, SV-16B, SV-20A, SV-20B, SV-20C, SV-21A, SV-21B, SV-21C, SV-21D,SV-28 and SV-23 a, b and c stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(b) In order to document the compliance status with Condition D.3.8, the Permittee shall maintain records of the overall pressure drop across the baghouses once per day. The Permittee shall include in its daily record when an overall pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

Casting Cleaning and Finishing Operations

(u) One (1) casting cleaning operation, identified as emission unit EU-F12, constructed in 1989, consisting of a V shot blast machine, with a nominal capacity of 33.7 tons per hour, with emissions controlled by the Phase VII baghouse, and exhausting through stack SV-22.

(v) One (1) casting cleaning operation, identified as emission unit EU-F13, constructed in 1978, consisting of the I-Block grinder and the V-Block grinder, with a combined nominal capacity of 33.7 tons per hour, with emissions controlled by the Phase V baghouse, and exhausting through stacks SV-23A through SV-23C.

(w) One (1) I-Shot blast machine, identified as emission unit EU-F14, constructed in 1989, with a nominal capacity of 27.1 tons per hour, with emissions controlled by the Phase VI baghouse, and exhausting through stack SV-24.

(x) One (1) casting cleaning operation, identified as emission unit EU-F15, constructed in 1975 and modified in 2000, with a nominal capacity of 10.7 tons per hour, consisting of one (1) grinder and one (1) BMD separator, with emissions controlled by the Phase I baghouse, and exhausting through stacks SV-25A and SV-25B.

(y) One (1) waste sand handling operation, identified as emission unit EU-F16, constructed in 1996, consisting of sand storage silos, dump hoppers, and a sand dump, with a maximum capacity of one hundred (100) tons of sand per hour, with emissions controlled by the Phase VIII baghouse, and exhausting through stack SV-34.

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

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

D.4.1 PSD Minor Limit [326 IAC 2-2]

(a) Pursuant to 326 IAC 2-2, the PM emissions from EU-F13 are limited as follows:

(1) The combined amount of castings grinded at the I-Block and V-Block grinders, collectively identified as EU-F13, shall be limited to less than 240,000 tons per twelve consecutive month period with compliance determined at the end of each month.

(2) The PM emissions from EU-F13 shall not exceed 0.208 pounds per ton metal grinded.

Compliance with these limits renders the requirements of 326 IAC 2-2, Prevention of Significant Deterioration, not applicable to the 1978 modification.

(b) The casting cleaning operation (EU-F12) shall be limited as follows:

(1) The combined amount of castings shot blast at the casting cleaning operation (EU-F12) shall be limited to less than 240,000 tons per twelve consecutive month period with compliance determined at the end of each month.

(2) The PM and PM10 emissions from the casting cleaning operation (EU-F12) shall each not exceed 0.056 pounds per ton of castings. These limitations are structured such that, when including the limited PM and PM10 emissions from the shot blast machine (EU-F14) and the maximum potential PM and PM10 emissions from the Phase I and II scrap preheaters (D.2), PM emissions are less than twenty-five (25) tons per twelve (12) consecutive month period and PM10 emissions are less than fifteen (15) tons per twelve (12) consecutive month period. Compliance with these limitations will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification consisting of the construction of the casting cleaning operation (EU-F12) and the I-Shot blast machine (EU-F14).

These limitations are structured such that, when including the limited PM and PM10 emissions from the shot blast machine (EU-F14) and the maximum potential PM and PM10 emissions from the Phase I and II scrap preheaters (D.2), PM emissions are less than twenty-five (25) tons per twelve (12) consecutive month period and PM10 emissions are less than fifteen (15) tons per twelve (12) consecutive month period. Compliance with these limitations will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification consisting of the construction of the casting cleaning operation (EU-F12) and the I-Shot blast machine (EU-F14).

(c) The I-Shot blast machine (EU-F14) shall be limited as follows:

(1) The total throughput of the I-Shot blast machine (EU-F14) shall not exceed 240,000 tons per twelve consecutive month period with compliance determined at the end of each month.

(2) The PM and PM10 emissions from the I-Shot blast machine (EU-F14) shall not exceed 0.056 pounds per ton of castings.

These limitations are structured such that, when including the limited PM and PM10 emissions from the casting cleaning operation (EU-F12) and the maximum potential PM and PM10 emissions from the Phase I and II scrap preheaters (D.2), PM emissions are less than twenty-five (25) tons per twelve (12) consecutive month period and PM10 emissions are less than fifteen (15) tons per twelve (12) consecutive month period. Compliance with these limitations will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the modification consisting of the construction of the casting cleaning operation (EU-F12) and the I-Shot blast machine (EU-F14).

(d) The PM emissions from the waste sand handling operation (EU-F16) shall not exceed 5.68 pounds per hour and the PM10 emissions from the sand handling operation (EU-F16) shall not exceed 3.40 pounds per hour. Compliance with these limitations will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not

applicable to the modification consisting of the construction of the waste sand handling operation (EU-F16).

D.4.2 Particulate Emission Limitations [326 IAC 6.5-1-2(a)]

Pursuant to 326 IAC 6.5-1-2(a) (Particulate Emission Limitations), particulate emissions from the casting cleaning operation (EU-F12), I-shot blast machine (EU-F14) and waste sand handling operation (EU-F16) shall each not exceed 0.03 grains per dry standard cubic foot.

D.4.3 Particulate Emission Limitations [326 IAC 6.5-6-26]

Pursuant to 326 IAC 6.5-6-26 (Particulate Emission Limitations-Marion County), the Permittee shall comply with the following limitations:

Control Device	Particulate Emission Limitation (gr/dscf)	Particulate Emission Limitation (ton/yr)
Phase V baghouse	0.02	62.0
Phase I Baghouse	0.020	35.4

D.4.4 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan (PMP) is required for any control devices listed in Section D.4. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan.

Compliance Determination Requirements

D.4.5 Particulate Control [326 IAC 2-7-6(6)]

In order to ensure compliance with Conditions D.4.1, D.4.2, and D.4.3, the Phase VII, Phase V, Phase VI,Phase I, and Phase VIII baghouses shall be in operation and control emissions from the castingcleaning operation (EU-F12), casting cleaning operation (EU-F13), I-shot blast machine (EUF14), casting cleaning operation (EU-F15), and waste sand handling operation (EU-F16), at alltimes that the operations associated with the respective control device are in operation.

D.4.6 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.4.1(a)(2), D.4.1(d), D.4.2 and D.4.3, the Permittee shall perform PM testing on the casting cleaning operation (EU-F13); PM and PM10 testing on Phase VIII baghouse controlling waste sand handling operations (EU-F16); and PM testing on the Phase I baghouse controlling casting cleaning operations (EU-F15), utilizing methods as approved by the Commissioner. All emission units venting to the Phase V baghouse shall be in operation during the stack test. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with 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. PM10 includes filterable PM10 and condensable PM.

(b) On or before March 1, 2014, in order to demonstrate the compliance status with Conditions D.4.1(b)(2), D.4.1(c)(2), and D.4.2, the Permittee shall perform PM and PM10 testing on the casting cleaning operation (EU-F12), and I-shot blast machine utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with 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. PM10 includes filterable PM10 and condensable PM.

(c) In order to demonstrate the compliance status with Conditions D.4.6(a) and (b), the Permittee shall perform the PM and PM10 testing utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of the last valid compliance demonstration. Testing shall be conducted in accordance with Section C -- Performance Testing.

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

D.4.7 Visible Emissions Notations [40 CFR 64]

(a) Once per day visible emission notations of SV-22, SV-23A SV-23B, SV-23C, SV-24, SV-25A, SV-25B, and SV-34 stack exhausts from three casting cleaning operation (EU-F12, EU-F13, EU-F15), I-shot blast machine (EU-F14), and waste sand handling operation (EU-F16), shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Observation of abnormal emissions that do not violate 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.

D.4.8 Parametric Monitoring [40 CFR 64]

(a) The Permittee shall record the overall pressure drop across the baghouses used in conjunction with the casting cleaning operation (EU-F12), casting cleaning operation (EU-F13), I-shot blast machine (EU-F14), casting cleaning operation (EU-F15), and waste sand handling operation (EU-F16) at least once per day when the casting cleaning

operation (EU-F12), casting cleaning operation (EU-F13), I-shot blast machine (EU-F14), casting cleaning operation (EU-F15), and sand handling operation (EU-F16) are in operation. When for any one reading, the overall pressure drop across the baghouse is outside the normal range of 2.0 to 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response step. Section C - Response to Abnormal or Out-of-Range Compliance Monitoring Measurements contains the Permittee's obligation with regard to the reasonable response steps required by this condition. An overall pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.4.9 Broken or Failed Bag Detection [40 CFR 64]

(a) For a single compartment baghouse, controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down as soon as safely possible until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

(c) 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.

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

D.4.10 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.4.1(a), the Permittee shall maintain monthly records of the amount of castings grinded at the I-Block and V-Block grinders (EU-F13).

(b) In order to document the compliance status with Condition D.4.1(b), the Permittee shall maintain records of the metal throughput to the V-shot blast machine (EU F-12).

(c) In order to document the compliance status with Condition D.4.1(c), the Permittee shall maintain monthly records of the metal throughput to the I-Shot blast machine (EU-F14).

(d) In order to document the compliance status with Condition D.4.7, the Permittee shall maintain records of once per day visible emission notations of SV-22, SV-23A SV-23B, SV-23C, SV-24, SV-25A, SV-25B, and SV-34 stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(e) In order to document the compliance status with Condition D.4.8, the Permittee shall maintain records of the overall pressure drop once per day. The Permittee shall include in its daily record when an overall pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

D.4.11 Reporting Requirements

A quarterly summary of the information to document compliance status with Conditions D.4.1(a), D.4.1(b) and D.4.1(c) shall be submitted to IDEM at the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.5 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]: Insignificant Activities

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

(b) 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 8-3-5]

(c) Fuel oil-fired combustion sources with heat input equal to or less than two million (2,000,000) British thermal units per hour and firing fuel containing less than five tenths (0.5) percent sulfur by weight which include the following:

(1) One (1) distillate oil-fired boiler, for emergency purposes only, reconstructed in 2002, identified as IS-E02, located in pump house building #37, with a maximum capacity of 1.5 million British thermal units per hour. [326 IAC 6.5-1-2(b)(2)]

(d) Emergency generators as follows: gasoline generators not exceeding 110 horsepower; diesel generators not exceeding 1600 horsepower; natural gas turbines or reciprocating engines not exceeding 16,000 horsepower which include the following:

(1) One (1) stand-by diesel generator, identified as IS-E05, with a maximum capacity of 325 horsepower, respectively. [326 IAC 6.5-1-2]

(e) Trimmers that do not produce fugitive emissions and that are equipped with a dust collection or trim material recovery device such as a bag filter or cyclone which include the following:

(1) Two (2) trimmers, identified as IS-E06 and IS-E07, equipped with a dust collector. [326 IAC 6.5-1-2]

(f) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations which include the following:

(1) Core sand hopper and mixing operations, identified as IS-F04, which take place immediately upstream of the cold box core machines. [326 IAC 6.5-1-2]

(2) Two (2) sand storage silos and three (3) bond storage silos, collectively identified as IS-F01. [326 IAC 6.5-1-2]

(3) Batch sand mullers and one (1) sand heater. [326 IAC 6.5-1-2]

(4) Core sand storage in buildings. [326 IAC 6.5-1-2]

(g) Emission units with PM, PM10, and PM2.5 emissions less than five (5) tons per year, SO_2,

NOx, and VOC emissions less than ten (10) tons per year, CO emissions less than twenty-five (25) tons per year, lead emissions less than two-tenths (0.2) tons per year, single HAP emissions less than one (1) ton per year, and combination of HAPs emissions less than two and a half (2.5) tons per year which include the following:

(1) One (1) miscellaneous grinding operation, identified as IS-E03, controlled by multi-clones and vented inside. [326 IAC 6.5-1-2]

(2) Four (4) cold engine test cells with the ability to perform both cold engine tests and cylinder contribution audits combusting diesel fuel. [326 IAC 6.5-1-2]

(3) Laser welders. [326 IAC 6.5-1-2]

(4) Induction Hardening heat treatment operations. [326 IAC 6.5-1-2]

(5) Holding furnaces. [326 IAC 6.5-1-2]

(6) Oil mist collectors. [326 IAC 6.5-1-2]

(7) CNC machines

(8) One (1) emergency fire pump 1, installed in 1974 with a maximum capacity of 0.64 MMBtu/hr

(9) One (1) emergency fire pump 2, installed in 1979 with a maximum capacity of 0.95 MMBtu/hr.

(10) One (1) natural gas commercial boiler installed in 2012 with a maximum capacity of 0.1 MMBtu/hr.

(h) Research and Development activities conducted under close supervision of technically trained personnel that are not engaged in the manufacture of products for sale, exchange for commercial profit, or distribution which include the following:

(1) One (1) 500 kW electric furnace, identified as IS-F05, with a 1,000 pound per hour capacity. [326 IAC 6.5-1-2]

(i) Noncontact cooling tower systems with natural draft not regulated under a NESHAP. [326 IAC 6.5-1-2]

(j) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour which include the following:

(1) Five (5) natural gas-fired drying ovens located with the cold box core machines collectively identified as emission unit EU-F02, consisting of the following sizes:

(2) One (1) natural gas-fired drying oven rated at 3.60 MMBtu/hr located with the Loramendi core line identified as emission unit EU-28. [326 IAC 6.5-1-2]

(3) One (1) 2.5 MMBtu/hr Hagan Oven, identified as EU-F21. [326 IAC 6.5-1-2]

(k) Brazing, cutting torches, soldering and welding activities not resulting in the emission of HAP. [326 IAC 6.5-1-2]

(l) One (1) engine test area described as Reliability where research and warranty parts analysis is performed, identified as emissions unit EU-E03E, constructed prior to 1985 consisting of two (2) engine test run stands and two (2) engine test dyno stands. The two dyno test stands with a nominal fuel consumption rate of one hundred-twenty (120) pounds per hour per engine test dyno stand and the two engine test run stands with a nominal fuel consumption rate of twenty one (21) pounds per hour per engine test stand, and exhausting through stacks SV-E03E1 through SV-E03E4. [326 IAC 6.5-1-2]

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

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

D.5.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations existing as of January 1, 1980, located in Clark, Elkhart, Floyd, Lake, Marion, Porter and St. Joseph Counties at sources which have potential emissions of one hundred (100) tons per year or greater of VOC, the Permittee shall:

(a) Equip the cleaner with a cover;

(b) Equip the cleaner with a facility for draining cleaned parts;

(c) Close the degreaser cover whenever parts are not being handled in the cleaner;

(d) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;

(e) Provide a permanent, conspicuous label summarizing the operation requirements; and

(f) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.5.2 Volatile Organic Compounds (VOC) [326 8-3-5]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaner degreaser operations without remote solvent reservoirs existing as of July 1, 1990, located in Clark, Elkhart, Floyd, Lake, Marion, Porter or St. Joseph Counties, the Permittee shall ensure that the following requirements are met:

(1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:

(A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38ºC) (one hundred degrees Fahrenheit (100ºF));

(B) The solvent is agitated; or

(C) The solvent is heated.

(2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38ºC) (one hundred degrees Fahrenheit (100ºF)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).

(4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

(5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38ºC) (one hundred degrees Fahrenheit (100ºF)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9ºC) (one hundred twenty degrees Fahrenheit (120ºF)):

(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) Other systems of demonstrated equivalent control such as a refrigerated chiller of carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.

(b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility, construction of which commenced after July 1, 1990, shall ensure that the following operating requirements are met:

(1) Close the cover whenever articles are not being handled in the degreaser.

(2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.

(3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.5.3 Particulate Emission Limitations [326 IAC 6.5-1-2(a)]

(a) Pursuant to 326 IAC 6.5-1-2(a) (Particulate Emission Limitations), particulate emissions from the insignificant activities described in this Section D.5(d) through (l), shall each not exceed 0.03 grains per dry standard cubic foot.

(b) Pursuant to 326 IAC 6.5-1-2(b)(2), particulate emissions from the distillate oil-fired boiler (IS-E02) shall not exceed 0.15 pound per million British thermal units per hour.

(c) Pursuant to 326 IAC 6.5-1-2(b)(3), particulate emissions from the natural gas commercial boiler shall not exceed 0.01 grains per dry standard cubic foot.

Compliance Determination Requirement

D.5.4 Particulate Control [326 IAC 2-7-6(6)]

In order to ensure compliance with Condition D.5.3, the dust collectors, fabric filters, dry filters, and multi-clones shall be in operation and control emissions from the insignificant activities described in this Section D.5(e), (f) and (g) at all times that the operations associated with the respective control device are in operation.

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

Engine Plant Grinding/Broaching Operation

(z) One (1) head grinding operation, identified as EU-F06N, constructed in 2003, with a rated capacity of five (5) tons per hour, with emissions controlled by a 21,000 cfm baghouse, exhausting to stack SV-06N, when not redirected to exhaust indoors.

(aa) One (1) block broaching operation, identified as EU-F07N, constructed in 2003, with a rated capacity of ten (10) tons per hour, with emissions controlled by a 21,000 cfm baghouse, exhausting to stack SV-07N, when not redirected to exhaust indoors.

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

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

D.6.1 PSD Minor Particulate Emission Limitations [326 IAC 2-2]

The Permittee shall limit the PM emissions to less than 5.7 pounds per hour and filterable and condensable emissions of PM10 to less than 3.4 pounds per hour from the head grinding (EU-F06N) and block broaching (EU-F07N) operations. Compliance with this condition will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) not applicable to the construction of the head grinding operation (EU-F06N) and the block broaching operation (EU-F07N).

D.6.2 Particulate Emission Limitations [326 IAC 6.5-1-2(a)]

Pursuant to 326 IAC 6.5-1-2(a) (Particulate Emission Limitations), particulate emissions from the head grinding operation (EU-F06N) and block broaching operation (EU-F07N) shall each not exceed 0.03 grains per dry standard cubic foot.

D.6.3 Preventive Maintenance Plan [326 IAC 2-7-5(12)]

A Preventive Maintenance Plan (PMP) is required for any control devices listed in Section D.6. Section B - Preventive Maintenance Plan contains the Permittee's obligations with regard to the preventive maintenance plan.

Compliance Determination Requirements

D.6.4 Particulate Control

In order to ensure compliance with Conditions D.6.1 and D.6.2, the head grinding and block broaching baghouses shall be in operation and control emissions from the head grinding operation (EU-F06N) and block broaching operation (EU-F07N) at all times that the operations associated with the respective control device are in operation.

D.6.5 Operation of Control Devices [326 IAC 2-7-6(6)]

In the event that bag failure is observed in a multi-compartment baghouse, if operations will

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

D.6.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

The Permittee shall perform PM and PM10 testing within 180 days of startup. In order to demonstrate the compliance status with Condition D.6.1, the Permittee shall perform PM and PM10 testing on the head grinding operation (EU-F06N) and block broaching operation (EU-F07N), utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with 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. PM10 includes filterable PM10 and condensable PM.

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

D.6.7 Visible Emissions Notations [40 CFR 64]

(a) Once per day visible emission notations of SV-06N and SV-07N stack exhausts from head grinding operation (EU-F06N) and block broaching operation (EU-F07N) shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

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

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

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

(e) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Observation of abnormal emissions that do not violate 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.

D.6.8 Parametric Monitoring [40 CFR 64]

(a) The Permittee shall record the overall pressure drop across the baghouses used in conjunction with the head grinding operation (EU-F06N) and block broaching operation (EU-F07N) at least once per day when the head grinding operation (EU-F06N) and block broaching operation (EU-F07N) are in operation and venting to the atmosphere. When for any one reading, the overall pressure drop across the baghouse is outside the normal

range of 2.0 to 10.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Abnormal or Out-of-Range Compliance Monitoring Measurements contains the Permittee's obligation with regard to the reasonable response steps required by this condition. An overall pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

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

D.6.9 Broken or Failed Bag Detection [40 CFR 64]

For a single compartment baghouse, controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.6.10 Record Keeping Requirements

(a) In order to document the compliance status with Condition D.6.6, the Permittee shall maintain records of daily visible emission notations of SV-06N and SV-07N stack exhaust. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of a visible emission notation (e.g. the process did not operate that day).

(b) In order to document the compliance status with D.6.7, the Permittee shall maintain records of the overall pressure drop across the baghouses. The Permittee shall include in its daily record when an overall pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

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

SECTION E.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

Core Making Operations

(h) Thirteen (13) cold box core machines, each with its own mixer, collectively identified as emission unit EU-F02, using a two (2) part phenolic urethane resin system with a nominal resin content of 2.5% and an amine gas as a catalyst with a nominal usage rate of 1.9 pounds per ton of cores to activate the resin to produce the finished product, with emissions controlled by wet scrubbers #2, #3, #4, and #5, and exhausting through stacks SV-11A, SV-11B, SV-11C, and SV-12. The individual cold box core machines have the following construction dates and capacities.

Machine	Machine Description	Construction Date	Capacity (tons of cores/hr)	Scrubber ID	Stack Vent ID
EU-F02H	5050 EAST	1989	9.3	#2	SV-11C
EU-F02B	CB30	1977	6.05	#2	
EU-F02I	5050 WEST	1989	3.5	#2	
EU-F02D	4040 #2	1985	2.18	#3	SV-11B
EU-F02K	4040 #3	1991	3.07	#3	
EU-F02L	4040 #4	1991	3.5	#3	
EU-F02A	NORTH ISOCURE	1977	2.77	#4	SV-11A
EU-F02C	SOUTH ISOCURE	1979	2.77	#4	
EU-F02E	3540 NORTH	1988	1.96	#5	SV-12
EU-F02F	4040 #5	1989	1.74	#5	
EU-F02G	4040 #6	1989	1.74	#5	
EU-F02J	3540 SOUTH	1990	1.67	#5	
EU-F02M	4040 #7	1995	1.74	#5	

EU-F02 is considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(i) One (1) core line collectively identified as emission unit EU-28, constructed in 1999, with a maximum capacity of 7.9 tons of cores per hour, consisting of the following:

(1) Three (3) sand receiving bins, identified as emission units EU-28B, EU-28C, and EU-28D, with emissions controlled by one dust collector below 4,000 acfm, and exhausting through stack SV-28B.

(2) Three (3) cold box core machines, each with its own mixer, collectively identified as EU-28A, each having a maximum capacity of 2.63 tons cores per hour with a nominal resin content of 2.5% and with a nominal catalyst gas usage rate of 1.9 pounds per ton of cores with amine gas emissions controlled by wet scrubber #1, and exhausting

through stack SV-28A.

EU-28A is considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(j) One (1) Phase I melting process, collectively identified as emission unit EU-F04, constructed in 1971, with a maximum charge capacity of twenty (20) tons of metal per hour, comprised of the following:

(1) One (1) natural gas-fired scrap preheater Phase I, constructed in 1989 and modified in 2000, with a maximum heat input capacity of nineteen and a half (19.5) million British thermal units per hour; and

(2) Three (3) electric induction furnaces, #1, #2, and #3, with a maximum melt rate of twenty (20) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions are controlled by the EM-1 Baghouse which exhausts through stack SV-14. This baghouse does not control emissions from the ladles. The Phase I scrap preheater and electric induction furnaces #1, #2, and #3 associated with EU-F04 are considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(k) One (1) Phase II melting process, collectively identified as emission unit EU-F05, constructed in 1971, with a maximum charge capacity of twenty (20) tons of metal per hour, comprised of the following:

(1) One (1) natural gas-fired scrap preheater Phase II, constructed in 1989 and modified in 2000, with a maximum heat input capacity of nineteen and a half (19.5) million British thermal units per hour; and

(2) Three (3) electric induction furnaces, #4, #5 and #6, with a maximum melt rate of twenty (20) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions are controlled by the EM-2 Baghouse which exhausts through stack SV-15. This baghouse does not control emissions from the ladles. The Phase II scrap preheater and electric induction furnaces #4, #5, and #6 associated with EU-F05 are considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(l) One (1) Phase III melting process, collectively identified as EU-F19, constructed in 1998, with a maximum charge capacity of twenty-five (25) tons of metal per hour, comprised of the following:

(1) One (1) natural gas fired Phase III dryer, identified as EU-F19A, with a maximum heat input capacity of seven hundred fifty thousand (750,000) British thermal units per hour; and

(2) Two (2) grey iron electric induction furnaces, constructed in 1998 and 1999, respectively, collectively identified as EU-F19B, with a maximum melt rate of twenty-five

(25) tons of metal per hour. A portion of alloy additions and modifications occur in the furnace.

(3) One (1) alloy additions and modifications operation, identified as EU-F19C; this operation occurs when magnesium and other elements are added to the molten grey iron. Alloy additions and modifications occur in the ladles used to remove and pour the molten iron.

Emissions from these units are controlled by two baghouses identified as EM-3 baghouse constructed in 2000 and EM-3B baghouse constructed in 2006. The EM-3 baghouse controls the two induction furnaces (EU-F19B) and exhausts through stack SV-33. The EM-3B baghouse controls the Phase III dryer (EU-F19A) and exhausts through stack SV-33a. These baghouses do not control emissions from the ladles. EU-F19B is subject to the applicable requirements of 40 CFR 63, Subpart EEEEE.

Mold Pouring Operations

(o) One (1) M1 mold pouring operation, identified as emission unit EU-F08, constructed in 1957, with a maximum capacity of thirty (30) tons of metal poured per hour, with emissions uncontrolled, and exhausting through stacks SV-19A and SV-19B. EU-F08 is considered part of the affected source under 40 CFR 63, Subpart EEEEE.

(t) One (1) M3 mold pouring operation, identified as emission unit EU-F17, constructed in 1974, with a maximum capacity of sixty (60) tons of metal poured per hour, with emissions uncontrolled, and exhausting through stacks SV-27A through SV-27C. EU-F17 is considered part of the affected source under 40 CFR 63, Subpart EEEEE. The M3 mold pouring operation, modified in 2011, includes: One Compacted Graphite Iron (CGI) ladle metallurgy process, consisting of two stations; with a capacity of 30 tons/hour, 80% of particulate emissions controlled by a baghouse identified as the Phase 14 Dust Collector, exhausting to Stack SV-35. CGI molds will be poured at the existing M-1 pouring station and then will return to the M-3 casting line.

Note: CGI molds will be poured at the existing M-1 pouring station with a maximum capacity of 30 tons per hour and then will return to the M-3 mold pouring operation.

(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)]

E.1.1 General Provisions Relating to NESHAP EEEEE [326 IAC 20-1] [40 CFR Part 63, Subpart A]

(a) Pursuant to 40 CFR 63.7760, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in Table 1 of 40 CFR Part 63, Subpart EEEEE in accordance with schedule in 40 CFR 63 Subpart EEEEE.

(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
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

E.1.2 Iron and Steel Foundries NESHAP [40 CFR Part 63, Subpart EEEEE]

The Permittee that operates an iron and steel foundry, which is a major source of hazardous air pollutants, shall comply with the following provisions of 40 CFR Part 63, Subpart EEEEE (included as Attachment A of this permit), with a compliance date of April 23, 2007:

(1) 40 CFR 63.7680;
(2) 40 CFR 63.7681;
(3) 40 CFR 63.7682(a), (b) and (c);
(4) 40 CFR 63.7683(a), (b) and (f);
(5) 40 CFR 63.7690(a)(1), (a)(5), (a)(7), (a)(11), (b)(1) and (b)(5);
(6) 40 CFR 63.7700(a), (b), (c)(1)(i), (c)(2),(c)(3) and (e);
(7) 40 CFR 63.7710;
(8) 40 CFR 63.7720;
(9) 40 CFR 63.7730; (a) and (b);
(10) 40 CFR 63.7731;
(11) 40 CFR 63.7732(a), (b)(1), (b)(2), (b)(4), (b)(5), (b)(6),(c)(1), (c)(2), (c)(4), (c)(5), (c)(6), (d), (g), (h), and (i);
(12) 40 CFR 63.7733(a), (d), (e) and (f);
(13) 40 CFR 63.7734(a)(1), (a)(5), (a)(7), (a)(11), (b)(1) and (b)(5);
(14) 40 CFR 63.7735(a), (b) and (d);
(15) 40 CFR 63.7736;
(16) 40 CFR 63.7740(a), (b), (c) and (g);
(17) 40 CFR 63.7741(a), (b), (e) and (f);
(18) 40 CFR 63.7742;
(19) 40 CFR 63.7743(a)(1), (a)(5),(a)(7), (a)(11), (a)(12), (b), (c) and (g);
(20) 40 CFR 63.7744(a) and (c);
(21) 40 CFR 63.7745;
(22) 40 CFR 63.7746;
(23) 40 CFR 63.7747 (b), (c) and (d);
(24) 40 CFR 63.7750(a), (b), (d) and (e);
(25) 40 CFR 63.7751;
(26) 40 CFR 63.7752;
(27) 40 CFR 63.7753;
(28) 40 CFR 63.7760;
(29) 40 CFR 63.7761;
(30) 40 CFR 63.7765; and
(31) Table 1.

SECTION E.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(14)]:

Insignificant Activities:

(d) Emergency generators as follows: gasoline generators not exceeding 110 horsepower; diesel generators not exceeding 1600 horsepower; natural gas turbines or reciprocating engines not exceeding 16,000 horsepower which include the following:

(1) One (1) stand-by diesel generators, identified as IS-E05, with a maximum capacity of 325 horse power. [326 IAC 6.5-1-2]

(e) One (1) emergency fire pump 1, installed in 1974 with a maximum capacity of 0.64 MMBtu/hr.

(f) One (1) emergency fire pump 2, installed in 1979 with a maximum capacity of 0.95 MMBtu/hr.

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

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

E.2.1 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, as designated by 40 CFR 63.6590(a)(1), except when otherwise specified in 40 CFR Part 63 Subpart ZZZZ.

E.2.2 National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines [40 CFR Part 63, Subpart ZZZZ] [326 IAC 20-82]

(a) Pursuant to CFR Part 63, Subpart ZZZZ (included as Attachment E of this permit), the Permittee shall comply with the provisions of National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, which are incorporated by reference as 326 IAC 20-82, for the one (1) emergency diesel generator and two emergency fire pumps 1 & 2 as follows:

(1) 40 CFR 63.6585
(2) 40 CFR 63.6590(a)(1)(ii)
(3) 40 CFR 63.6595(a)(1)
(4) 40 CFR 63.6602
(5) 40 CFR 63.6605
(6) 40 CFR 63.6625(e)(2) and (f)
(7) 40 CFR 63.6640(a), (b), (f)(1)
(8) 40 CFR 63.6645(a)(5)
(9) 40 CFR 63.6655(e)(2)
(10) 40 CFR 63.6660
(11) 40 CFR 63.6665

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
CERTIFICATION

Source Name: Navistar, Inc
Source Address: 5565 Brookville Road, Indiapolis, Indiana 46219
Part 70 Permit No.: 097-32543-00039

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:

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: Navistar, Inc
Source Address: 5565 Brookville Road, Indiapolis, Indiana 46219
Part 70 Permit No.: 097-32543-00039

This form consists of 2 pages **Page 1 of 2**

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

- The Permittee must notify the Office of Air Quality (OAQ), no later than 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 no later than two (**2**) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency:
Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A **Page 2 of 2**

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
Type of Pollutants Emitted: TSP, PM-10, SO_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance Data Section

Part 70 Quarterly Report

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039
Facility: Phase III Melting Process (EU-F19)
Parameter: Metal Throughput
Limit: The throughput of metal shall not exceed 114,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ 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 Data Section

Part 70 Quarterly Report

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039
Facility: I-Shot Blast Machine (EU-F14)
Parameter: Total throughput engine blocks
Limit: Less than 240,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ 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 Data Section

Part 70 Quarterly Report

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039
Facility: I-Block and V-Block grinders (EU-F13)
Parameter: Total amount of castings grinded
Limit: Less than 240,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER: _____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ 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 Data Section

Part 70 Quarterly Report

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039
Facility: Casting cleaning operation (EU-F12)
Parameter: Combined amount of castings shot blast
Limit: Less than 240,000 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER:_____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ 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 Data Section

Part 70 Quarterly Report

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039
Facility: One Compacted Graphite Iron (CGI) ladle metallurgy station
Parameter: PM
Limit: Less than 24.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER:_____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ 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 Data Section

Part 70 Quarterly Report

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039
Facility: One Compacted Graphite Iron (CGI) ladle metallurgy station
Parameter: PM10
Limit: Less than 14.9 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER:_____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ 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 Data Section

Part 70 Quarterly Report

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039
Facility: One Compacted Graphite Iron (CGI) ladle metallurgy station
Parameter: PM2.5
Limit: Less than 9.99 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

QUARTER:_____ YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

☐ 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 Data Section

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039

Months: _____ to _____ Year: _____

This report shall be submitted quarterly based on a calendar year. 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

Permit Requirement (specify permit condition #)

Date of Deviation: **Duration of Deviation:**

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation: **Duration of Deviation:**

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)
Date of Deviation: **Duration of Deviation:**
Number of Deviations:
Probable Cause of Deviation:
Response Steps Taken:
Permit Requirement (specify permit condition #)
Date of Deviation: **Duration of Deviation:**
Number of Deviations:
Probable Cause of Deviation:
Response Steps Taken:
Permit Requirement (specify permit condition #)
Date of Deviation: **Duration of Deviation:**
Number of Deviations:
Probable Cause of Deviation:
Response Steps Taken:

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance Data Section

PART 70 OPERATING PERMIT
Melt Department Iron & Steel Foundry NESHAP
SEMIANNUAL COMPLIANCE REPORT

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039

Months: _____ to _____ Year: _____

This report shall be submitted semi-annually based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ 40 C.F.R. 63.7736(a)(1)(i) & 40 C.F.R. 63.7736(b)(1) A capture system and control device O&M plan was submitted to the administrator for approval on 4/23/2007

☐ 40 C.F.R. 63.7736(c)(1) A bag leak detection system monitoring plan was submitted to the administrator on 4/23/2007

☐ 40 C.F.R. 63.7736(c)(2) & 40 C.F.R. 63.7736(c)(3) Navistar, Inc. will inspect, operate and maintain each bag leak detection system according to the procedures in the O&M plan and will follow the corrective action procedures for the bag leak detection system alarms according to the requirements of the plan.

☐ 40 C.F.R. 63.7736(a)(1)(ii) & 40 C.F.R. 63.7736(b)(2) Navistar, Inc. will inspect, operate and maintain each capture system and control device according to the procedure in the O&M plan for Melt Department Baghouses and capture systems.

☐ 40 C.F.R. 63.7736(d)(1) & 40 C.F.R. 63.7736(d)(2) A mold vent ignition inspection plan has been submitted to the administrator on 4/23/2007.

☐ The facility has determined that mold vents automatically ignite.

☐ 40 C.F.R. 63.7751(b)(6) There were no periods during which the CPMS was out-of-control during the reporting period for the Melt Department Baghouses

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
Compliance Data Section

PART 70 OPERATING PERMIT
Core Room - Iron & Steel Foundry NESHAP
SEMIANNUAL COMPLIANCE REPORT

Source Name: Navistar, Inc.
Source Address: 5565 Brookville Road, Indianapolis, Indiana 46219
Part 70 Permit No.: T097-32543-00039

Months: _____ to _____ Year: _____

This report shall be submitted semi-annually based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

☐ 40 C.F.R. 63.7736(a)(1)(ii) & 40 C.F.R. 63.7736(b)(1) A capture system and control device O&M plan was submitted to the administrator for approval on 12/1/2005

☐ 40 C.F.R. 63.7736(a)(1)(ii) & 40 C.F.R. 63.7736(b)(2) ICC will inspect, operate, and maintain each capture system and control device according to the procedures in the O&M plan for Core Machines and Core room scrubbers

☐ 40 C.F.R. 63.7751(b)(6) There were no periods during which the CPMS was out-of-control during the reporting period for the Core Room pH meters and liquid flow rate devices

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation: **Duration of Deviation:**

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation: **Duration of Deviation:**

Number of Deviations:
Probable Cause of Deviation:
Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	**Duration of Deviation:**
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (<=600 HP)
Maximum Input Rate (<=4.2 MMBtu/hr)

Company Name: **Navistar, Inc.**
Address City IN Zip: **5565 Brookville Road, Indianapolis, IN 46219**
Permit Number: **097-32543-00039**
Reviewer: **Diya Bhattacherjee**

B. Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	255.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	127,500

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	0.14	0.14	0.14	0.13	1.98	0.16	0.43

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

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-hr****	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons/yr	4.16E-04	1.83E-04	1.27E-04	1.74E-05	5.27E-04	3.42E-04	4.13E-05	7.50E-05

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

Potential Emission of Total HAPs (tons/yr)	**1.73E-03**

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-hr	1.15	0.00	0.00
Potential Emission in tons/yr	73.31	0.00	0.00

Summed Potential Emissions in tons/yr	**7.33E+01**
CO2e Total in tons/yr	**7.36E+01**

Methodology
Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Diesel Fuel
Output Rating (<=600 HP)
Maximum Input Rate (<=4.2 MMBtu/hr)

Company Name: **Navistar, Inc.**
Address City IN Zip: **5565 Brookville Road, Indianapolis, IN 46219**
Permit Number: **097-32543-00039**
Reviewer: **Diya Bhattacherjee**

B. Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	380.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	190,000

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-h	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons	0.21	0.21	0.21	0.19	2.95	0.24	0.63

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

Hazardous Air Pollutants (HAPs)

	Pollutant							
	Benzene	Toluene	Xylene	1,3-Butadiene	Formaldehyde	Acetaldehyde	Acrolein	Total PAH HAPs***
Emission Factor in lb/hp-h	6.53E-06	2.86E-06	2.00E-06	2.74E-07	8.26E-06	5.37E-06	6.48E-07	1.18E-06
Potential Emission in tons	6.20E-04	2.72E-04	1.90E-04	2.60E-05	7.85E-04	5.10E-04	6.15E-05	1.12E-04

***PAH = Polyaromatic Hydrocarbon (PAHs are considered HAPs, since they are considered Polycyclic Organic Matter)

****Emission factors in lb/hp-hr were calculated using emission factors in lb/MMBtu and a brake specific fuel consumption of 7,000 Btu / hp-hr (AP-42 Table 3.3-1).

Potential Emission of Total HAPs (tons/yr)	**2.58E-03**

Green House Gas Emissions (GHG)

	Pollutant		
	CO2	CH4	N2O
Emission Factor in lb/hp-h	1.15	0.00	0.00
Potential Emission in tons	109.25	0.00	0.00

Summed Potential Emissions in tons/yr	**1.09E+02**
CO2e Total in tons/yr	**1.10E+02**

Methodology

Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
CH4 and N2O Emission Factor from 40 CFR 98 Subpart C Table C-2.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100

Company Name: **Navistar, Inc.**
Address City IN Zip: **5565 Brookville Road, Indianapolis, IN 46219**
Permit Number: **097-32543-00039**
Reviewer: **Diya Bhattacherjee**

Heat Input Capacity MMBtu/hr	HHV mmBtu / mmscf	Potential Throughput MMCF/yr
0.1	1020	1.0

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	7.6	0.6	100 **see below	5.5	84
Potential Emission in tons/	0.001	0.004	0.004	0.000	0.049	0.003	0.041

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combin
PM2.5 emission factor is filterable and condensable PM2.5 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recircul

Methodology

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02,
Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,02
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 l

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
HAPs Emissions

Company Name: **Navistar, Inc.**
Address City IN Zip: **5565 Brookville Road, Indianapolis, IN 46219**
Permit Number: **097-32543-00039**
Reviewer: **Diya Bhattacherjee**

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMc	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/	1.028E-06	5.874E-07	3.671E-05	8.812E-04	1.664E-06

	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMc	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/	2.448E-07	5.385E-07	6.853E-07	1.860E-07	1.028E-06

Methodology is the same as page 1.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1

See Page 3 for Greenhouse Gas calculations.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Greenhouse Gas Emissions

Company Name: **Navistar, Inc.**
Address City IN Zip: **5565 Brookville Road, Indianapolis, IN 46219**
Permit Number: **097-32543-00039**
Reviewer: **Diya Bhattacherjee**

	Greenhouse Gas		
	CO2	CH4	N2O
Emission Factor in lb/MMc	120,000	2.3	2.2
Potential Emission in tons/	59	0.0	0.0
Summed Potential Emissions in tons/yr	59		
CO2e Total in tons/yr	59		

Methodology

The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
Global Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Brent Rasche
Guardian Automotive Trim, Inc
. 601 N Congress Ave
Evansville IN 47716

DATE: December 27, 2012

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

SUBJECT: Final Decision
Title 5
163-32179-00017

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	DPABST 12/27/2012 Navistar, Inc 097-32543-00009 (Final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender	▶	Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	Type of Mail: **CERTIFICATE OF MAILING ONLY**

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee Remarks
1		Steve Metz Navistar, Inc 5565 Brookville Rd Indianapolis IN 46219 (Source CAATS) (CONFIRM DELIVERY)									
2		Eric Tharp Plant Mgr Navistar, Inc 5565 Brookville Rd Indianapolis IN 46219 *(RO CAATS)*									
3		Marion County Health Department 3838 N, Rural St Indianapolis IN 46205-2930 *(Health Department)*									
4		Indianapolis City Council and Mayors Office 200 East Washington Street, Room E Indianapolis IN 46204 *(Local Official)*									
5		Marion County Commissioners 200 E. Washington St. City County Bldg., Suite 801 Indianapolis IN 46204 *(Local Official)*									
6		Matt Mosier Office of Sustainability 1200 S Madison Ave #200 Indianapolis IN 46225 *(Local Official)*									
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