



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: February 10, 2011

RE: Bootz Manufacturing Co / 163-29839-00011

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

Notice of Decision: Approval - Effective Immediately

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 IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require 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 of 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.dot12/03/07



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Mr. Marc Wanner
Bootz Manufacturing Company
P.O. Box 18010
Evansville, IN 47719

February 10, 2011

Re: 163-29839-00011
First Significant Permit Revision to
F163-28498-00011

Dear Mr. Wanner:

Bootz Manufacturing Company was issued a Federally Enforceable State Operating Permit (FESOP) Renewal No. F163-29839-00011 on May 21, 2010 for a stationary fabricated metal bathtub, sink, and lavatory manufacturing operations for Plant 1, located at 1400 Park Street, and Plant 2, located at 2301 Maryland Street, Evansville, Indiana 47719. On October 29, 2010, the Office of Air Quality (OAQ) received an application from the source requesting to increase the throughput capacity of the three (3) Urea Foam spray booths currently permitted at the source from 29 units per hour each for Booth #1 and Fog Booth # 3 and 29 units per hour combined for Booth #2A and #2B to 120 units per hour each for Booth #1 and Fog Booth # 3 and 120 units per hour combined for Booth #2A and #2B.

Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Significant Permit Revision (SPR) procedures of 326 IAC 2-8-11.1(f). Pursuant to the provisions of 326 IAC 2-8-11.1, a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit.

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 Deborah Cole of my staff at 317-234-5377 or 1-800-451-6027, and ask for extension 4-5377.

Sincerely,

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

IC/dac

cc: File - Vanderburgh County
Vanderburgh County Health Department
U.S. EPA, Region V
Compliance and Enforcement Branch
Billing, Licensing and Training Section



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Federally Enforceable State Operating Permit Renewal OFFICE OF AIR QUALITY

Bootz Manufacturing Company
1400 Park Street (Plant 1) Evansville, Indiana 47712
2301 Maryland Street (Plant 2) Evansville, Indiana 47710

(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. 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 2-8 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.

Indiana statutes from IC 13 and rules from 326 IAC, quoted 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 FESOP under 326 IAC 2-8.

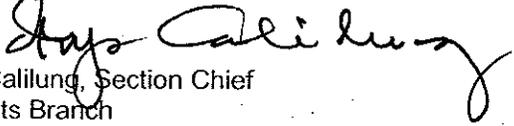
Operation Permit No.: F163-28498-00011	
Issued by: Original signed by: Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 21, 2010 Expiration Date: May 21, 2020
First Administrative Amendment No.: F163-29322-00011 - issued on June 29, 2010 Second Administrative Amendment No.: F163-29654-00011 - issued on September 29, 2010	
First Significant Permit Revision No.: F163-29839-00011	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: February 10, 2011 Expiration Date: May 21, 2020

TABLE OF CONTENTS

A. SOURCE SUMMARY	4
A.1 General Information [326 IAC 2-8-3(b)]	
A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]	
A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]	
A.4 FESOP Applicability [326 IAC 2-8-2]	
B. GENERAL CONDITIONS	6
B.1 Definitions [326 IAC 2-8-1]	
B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]	
B.3 Term of Conditions [326 IAC 2-1.1-9.5]	
B.4 Enforceability [326 IAC 2-8-6] [IC 13-17-12]	
B.5 Severability [326 IAC 2-8-4(4)]	
B.6 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]	
B.7 Duty to Provide Information [326 IAC 2-8-4(5)(E)]	
B.8 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]	
B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]	
B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]	
B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]	
B.12 Emergency Provisions [326 IAC 2-8-12]	
B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]	
B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]	
B.16 Permit Renewal [326 IAC 2-8-3(h)]	
B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]	
B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]	
B.19 Source Modification Requirement [326 IAC 2-8-11.1]	
B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2] [IC 13-30-3-1]	
B.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]	
B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16] [326 IAC 2-1.1-7]	
B.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]	
C. SOURCE OPERATION CONDITIONS.....	16
Emission Limitations and Standards [326 IAC 2-8-4(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]	
C.2 Overall Source Limit [326 IAC 2-8]	
C.3 Opacity [326 IAC 5-1]	
C.4 Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.6 Fugitive Dust Emissions [326 IAC 6-4]	
C.7 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
Testing Requirements [326 IAC 2-8-4(3)]	
C.8 Performance Testing [326 IAC 3-6]	
Compliance Requirements [326 IAC 2-1.1-11]	
C.9 Compliance Requirements [326 IAC 2-1.1-11]	

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

- C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]
- C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)]
[326 IAC 2-8-5(1)]

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

- C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]
- C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]
- C.14 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]
- C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

- C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]
- C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

Stratospheric Ozone Protection

- C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

SECTION D.1 FACILITY OPERATION CONDITIONS

Plant #2 23

Emission Limitations and Standards [326 IAC 2-8-4(1)]

- D.1.1 Particulate Matter Less Than 10 Microns (PM10) [326 IAC 2-8] [326 IAC 2-1.1-5]
- D.1.2 Particulate [326 IAC 2-2]
- D.1.3 Particulate Matter (PM) [326 IAC 6.5-1-2]
- D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

Compliance Determination Requirements

- D.1.5 Particulate Control

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a) (1)]

- D.1.6 Monitoring

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

- D.1.7 Record Keeping Requirements
- D.1.8 Reporting Requirements

SECTION D.2 FACILITY OPERATION CONDITIONS

Insignificant Activities 27

Emission Limitations and Standards [326 IAC 2-8-4(1)]

- D.2.1 Particulate [326 IAC 6.5-1-2]

Certification Form 28

Emergency Occurrence Form 29

Quarterly Report Form 31

Quarterly Deviation and Compliance Monitoring Report Form 34

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 2-8-3(b)]

The Permittee owns and operates a stationary fabricated metal bathtub, sink, and lavatory manufacturing operation.

Source Address:	1400 Park Street (Plant 1), Evansville, Indiana 47712, 2301 Maryland St. (Plant 2), Evansville, Indiana 47710
General Source Phone Number:	812-429-2240
SIC Code:	3469
County Location:	Vanderburgh
Source Location Status:	Nonattainment for PM _{2.5} standard Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary (Plant #2) source consists of the following emission units and pollution control devices:

- (a) Two (2) Largeware Porcelain Enamel booths, identified as Booths #1 and #2, both constructed prior to 1977, which are capable of coating 210 units per hour, equipped with cartridge filter houses to control the PM overspray emissions which are exhausted inside the building;
- (b) One (1) Porcelain Enamel cover coat spray booth and one (1) slip resistant coating booth, both constructed in 1999, capable of coating 265 units per hour, with particulate matter overspray emissions controlled by a cartridge filter house exhausting inside the building; and
- (c) Urea Foam Spray Booths:
 - (1) One (1) Urea Foam spray booth, identified as Booth #1, constructed in 1992, capable of coating 120 units per hour. This booth is equipped with an air atomization spray system, with dry filters to control the PM over spray, at a maximum flow rate of 14, 749 dry standard cubic feet per minute, exhausting to stack S/V 1;
 - (2) Two (2) Urea Foam spray booths, identified as Booth #2A and Booth #2B constructed in 2009, capable of coating 120 units per hour using both booths. The booths share an air atomization spray system, with dry filters to control PM over spray, at a maximum flow rate of 16,856 dry standard cubic feet per minute each, exhausting to stack S/V 2 and S/V 3 respectively;
 - (3) One (1) Urea Foam spray booth, identified as Fog Booth #3, constructed in 2009,

capable of coating 120 units per hour, equipped with an air atomization spray system, with dry filters to control the PM over spray, at a maximum flow rate of 13,000 dry standard cubic feet per minute, exhausting to stack S/V 4. This air atomization spray system can also be used in Booth #2B at a maximum flow rate of 16,856 dry standard cubic feet per minute.

- (d) One (1) 12.35 million BTU/hr natural gas-fired porcelain furnace, constructed in 1999;
- (e) One (1) natural gas-fired Largeware furnace, constructed prior to 1977 and modified in 1999, which is rated at 11.7 million British thermal units per hour (MMBtu/hr).

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

- (a) Natural gas fired combustion sources with heat input equal to or less than ten (10) million (MM) British thermal units (Btu) per hour:
 - (1) one (1) 6.695 MMBtu per hour natural gas-fired boiler exhausting at one (1) stack, identified as S/V-7;
 - (2) one (1) 3.0 MMBtu per hour natural gas-fired washed ware dry-off oven;
 - (3) one (1) 1.5 MMBtu per hour natural gas-fired porcelain dry-off oven;
 - (4) one (1) 3.0 MMBtu per hour natural gas-fired porcelain dry-off oven; and
 - (5) one (1) 3.0 MMBtu per hour natural gas-fired hot water parts cleaner.
 - (6) Three (3) 0.04 MMBtu per hour natural gas-fired space heaters, constructed in 2009;
 - (7) Three (3) 0.10 MMBtu per hour natural gas-fired space heaters, constructed in 2009;
 - (8) One (1) 0.15 MMBtu per hour natural gas-fired space heater, constructed in 2009.
- (b) paved and unpaved roads and parking lots with public access;
- (c) asbestos abatement projects regulated by 326 IAC 14-10;
- (d) filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases;
- (e) closed loop heating and cooling system;
- (f) adhesive usage with potential VOC emissions less than 3 pounds per hour or 15 pounds per day;
- (g) one (1) welding operation using Electrode Type E70S using a maximum of 2.095 pounds of wire per hour; and
- (h) One (1) research and development booth, constructed in 2009, with the primary purpose of analyzing color samples in order to determine the production settings and parameters, with no potential emissions. This unit is considered an exempt activity under 326 IAC 2-1.1-3(3)(2).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F163-28498-00011, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, 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 2-8-6] [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 2-8-4(4)]

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 2-8-4(5)(D)]

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

B.7 Duty to Provide Information [326 IAC 2-8-4(5)(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 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) A certification required by this permit meets the requirements of 326 IAC 2-8-5(a)(1) if:

- (i) it contains a certification by an "authorized individual", as defined by 326 IAC 2-1.1-1(1), and
- (ii) 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) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.9 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (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

- (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 2-8-4(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.10 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.11 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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.12 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or 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, and Southwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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 2-8-3(c)(6) 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 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) 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.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

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

- (a) All terms and conditions of permits established prior to F163-28498-00011 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or

(3) deleted.

(b) All previous registrations and permits are superseded by this permit.

B.14 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

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 2-8-3(h) and 326 IAC 2-8-9.

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]**

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State 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 2-8-4(5)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(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 2-8-8(a)]

(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 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(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 2-8-8(c)]

B.16 Permit Renewal [326 IAC 2-8-3(h)]

(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 2-8-3. 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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 IGCM 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 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-8-3(g), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.17 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

Any such application does require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.18 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) 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 approval required by 326 IAC 2-8-11.1 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 2-8-15(b) through (d). 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 2-8-15(b)(2), (c)(1), and (d).

- (b) **Emission Trades [326 IAC 2-8-15(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 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(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 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.19 Source Modification Requirement [326 IAC 2-8-11.1]

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

B.20 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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 FESOP 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, at reasonable times, 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, at reasonable times, 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, at reasonable times, 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.21 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.22 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ no later than 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) 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.23 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][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 2-8-4(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 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-2 (PSD), potential to emit particulate matter (PM) from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 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.4 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.5 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.6 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).

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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.

Testing Requirements [326 IAC 2-8-4(3)]

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

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.9 Compliance Requirements [326 IAC 2-1.1-11]

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

monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.11 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(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 2-8-4][326 IAC 2-8-5(a)(1)]

C.12 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

- (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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (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.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (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 2-8-5(a)(1) by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (b) The address for report submittal is:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

Stratospheric Ozone Protection

C.18 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 2-8-4(10)]:

Plant #2:

- (a) Two (2) Largeware Porcelain Enamel booths, identified as Booths #1 and #2, both constructed prior to 1977, which are capable of coating 210 units per hour, equipped with cartridge filter houses to control the PM overspray emissions which are exhausted inside the building;
- (b) One (1) Porcelain Enamel cover coat spray booth and one (1) slip resistant coating booth, both constructed in 1999, capable of coating 265 units per hour, with particulate matter overspray emissions controlled by a cartridge filter house exhausting inside the building; and
- (c) Urea Foam Spray Booths:
 - (1) One (1) Urea Foam spray booth, identified as Booth #1, constructed in 1992, capable of coating 120 units per hour. This booth is equipped with an air atomization spray system, with dry filters to control the PM over spray, at a maximum flow rate of 14,749 dry standard cubic feet per minute, exhausting to stack S/V 1;
 - (2) Two (2) Urea Foam spray booths, identified as Booth #2A and Booth #2B, constructed in 2009, capable of coating 120 units per hour using both booths. The booths share an air atomization spray system, with dry filters to control PM over spray, at a maximum flow rate of 16,856 dry standard cubic feet per minute each, exhausting to stack S/V 2 and S/V 3 respectively;
 - (3) One (1) Urea Foam spray booth, identified as Fog Booth #3, constructed in 2009, capable of coating 120 units per hour, equipped with an air atomization spray system, with dry filters to control the PM over spray, at a maximum flow rate of 13,000 dry standard cubic feet per minute, exhausting to stack S/V 4. This air atomization spray system can also be used in Booth #2B at a maximum flow rate of 16,856 dry standard cubic feet per minute.
- (d) One (1) 12.35 million BTU/hr natural gas-fired porcelain furnace, constructed in 1999.
- (e) One (1) natural gas-fired Largeware furnace, constructed prior to 1977 and modified in 1999, which is rated at 11.7 million British thermal units per hour (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 2-8-4(1)]

D.1.1 Particulate Matter Less than 10 Microns (PM10) and PM2.5 [326 IAC 2-8] [326 IAC 2-1.1-5]

- (a) Pursuant to 326 IAC 2-8-4, PM10 and PM2.5 emissions from each of the two (2) Largeware Porcelain Enamel booths, the Urea Foam spray booths, the cover coat spray booth, and the slip resistant coating booth, shall be limited as follows:
 - (1) The total amount of solids delivered to the applicators of the one (1) Largeware Porcelain Enamel booth (Booth #1) and the one (1) Largeware Porcelain Enamel booth (Booth #2) exhausting through the cartridge filter house exhaust shall not exceed 17,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 99% control efficiency of each of the cartridge filter houses;

- (2) The solids delivered to the applicators of the Urea Foam spray booths, identified as Booth #1, Booth #2A, Booth #2B, and Fog Booth #3 exhausting through S/V 1, S/ V 2, S/ V3, and S/ V4 respectively, shall not exceed 3,100 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 90% control efficiency of the dry filters; and
- (3) The solids delivered to the applicators of the Porcelain Enamel cover coat spray booth and the slip resistant coating booth, exhausting through the cartridge filter house exhaust shall not exceed 140,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 99.9% control efficiency of the cartridge filter house.

Compliance with the above limits, combined with the potential to emit PM10 and PM2.5 from other emission units at the source, shall limit the PM10 and PM2.5 from the entire source to less than 100 tons per twelve (12) consecutive month period and render the requirements of 326 IAC 2-7 (Part 70), and 326 IAC 2-2 (PSD) not applicable.

D.1.2 Particulate [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 not applicable, the Permittee shall comply with the following emission rates expressed in the following table:

Emission Unit , Stack ID	PM Emission Rate (lbs/hr)
(1) Largeware Porcelain Enamel Booth # 1 , Cartridge filter house	3.79
(1) Largeware Porcelain Enamel Booth # 2 , Cartridge filter house	6.43
(1) Porcelain Enamel cover coat spray booth and (1) slip resistant coating booth	9.55
(1) Urea Foam spray Booth #1 S/V 1	3.79
(1) Urea Foam spray Booth #2A S/V 2	4.33
(1) Urea Foam spray Booth #2B S/V 3	4.33
(1) Urea Foam spray Booth #3 S/V 4	3.34

Compliance with these limits, combined with the potential to emit PM from other emission units at the source, shall limit the PM from the entire source to less than 250 tons per twelve (12) consecutive month period and render 326 IAC 2-2 not applicable.

D.1.3 Particulate Matter (PM) [326 IAC 6.5-1-2]

Pursuant to 326 IAC 6.5-8 particulate matter (PM) emissions from each of the two (2) Largeware Porcelain Enamel booths, each of the four (4) Urea Foam spray booths, the Porcelain Enamel cover coat spray booth, and the slip resistant coating booth, shall be limited to 0.03 grain per dry standard cubic foot of exhaust air.

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

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

Compliance Determination Requirements

D.1.5 Particulate Control

- (a) In order to comply with conditions D.1.1, D.1.2 and D.1.3:
- (1) the cartridge filter house for particulate control shall be in operation and control emissions from Booth #1 at all times that Booth #1 is in operation.
 - (2) the cartridge filter house for particulate control shall be in operation and control emissions from Booth #2 at all times that Booth #2 is in operation.
 - (3) the cartridge filter house for particulate control shall be in operation and control emissions from the cover coat spray booth and slip resistant coating booth at all times that the cover coat spray and slip resistant coating booth are in operation.
 - (4) the dry filters for particulate control shall be in operation and control emissions from the Urea Foam spray booths at all times that the Urea Foam spray booths are in operation.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.6 Monitoring

- (a) Daily inspections shall be performed to verify the placement, integrity and particle loading of the dry filters and the cartridge filters controlling emissions from the one (1) Largeware Porcelain Enamel Booth #1, the one (1) Largeware Porcelain Enamel booth (Booth #2), the four (4) Urea Foam spray booths, the Porcelain Enamel cover coat spray booth, and the slip resistant coating booth. To monitor the performance of the dry filters controlling emissions from the four (4) Urea Foam spray booths which exhaust to the atmosphere, weekly observations shall be made of the overspray from the surface coating booth stacks S/V 1, S/V 2, S/V 3 and S/V 4 while the booths are in operation. If a condition exists which should result in a response step, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (b) Monthly inspections shall be performed of the coating emissions from stacks S/V 1, S/V 2, S/V 3 and S/V 4 and the presence of overspray on the rooftops and the nearby ground. When there is a noticeable change in overspray emissions, or when evidence of overspray emissions is observed, the Permittee shall take reasonable steps in accordance with Section C - Response to excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances, shall be considered a deviation from this permit.
- (c) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.7 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.1(a), the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the solids usage limits and the PM10, and PM 2.5 emission limits established in Condition D.1.1(a). Records necessary to demonstrate compliance shall be available

within 30 days of the end of each compliance period.

- (1) The solids content of each coating material used.
 - (2) The amount of coating material less water used on a monthly basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (3) The total solids usage, in tons, for each month.
- (b) To document the compliance status with Condition D.1.5, the Permittee shall maintain a log of weekly overspray observations, daily and monthly inspections.
- (c) Section C - General Record Keeping Requirements of this permit contains the Permittee's obligation with regard to the records required by this condition.

D.1.8 Reporting Requirements

A quarterly summary of the information to document the compliance status with Condition D.1.1 shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

Insignificant Activities:

- (a) Natural gas fired combustion sources with heat input equal to or less than ten (10) million (MM) British thermal units (Btu) per hour:
 - (1) one (1) 6.695 MMBtu per hour natural gas-fired boiler exhausting at one (1) stack, identified as S/V-7;
 - (2) one (1) 3.0 MMBtu per hour natural gas-fired washed ware dry-off oven;
 - (3) one (1) 1.5 MMBtu per hour natural gas-fired porcelain dry-off oven;
 - (4) one (1) 3.0 MMBtu per hour natural gas-fired porcelain dry-off oven; and
 - (5) one (1) 3.0 MMBtu per hour natural gas-fired hot water parts cleaner.
 - (6) Three (3) 0.04 MMBtu per hour natural gas-fired space heaters, constructed in 2009;
 - (7) Three (3) 0.10 MMBtu per hour natural gas-fired space heaters, constructed in 2009;
 - (8) One (1) 0.15 MMBtu per hour natural gas-fired space heater, constructed in 2009.
- (b) paved and unpaved roads and parking lots with public access;
- (c) asbestos abatement projects regulated by 326 IAC 14-10;
- (d) filling drums, pails, or other packaging containers with lubricating oils, waxes, and greases;
- (e) closed loop heating and cooling system;
- (f) adhesive usage with potential VOC emissions less than 3 pounds per hour or 15 pounds per day;
- (g) one (1) welding operation using Electrode Type E70S using a maximum of 2.095 pounds of wire per hour; and
- (h) One (1) research and development booth, constructed in 2009, with the primary purpose of analyzing color samples in order to determine the production settings and parameters, with no potential emissions. This unit is considered an exempt activity under 326 IAC 2-1.1-3(3)(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 2-8-4(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6.5-1-2]

- (a) Pursuant to 326 IAC 6.5-1-2(b) (3) (Particulate Emission Limitations for steam generators: PM emissions from the 6.695 MMBtu per hour boiler used for indirect heating purposes which was existing and in operation on or before June 8, 1972, be limited to one hundredth (0.01) grain per dry standard cubic foot (dscf) when burning natural gas.
- (b) Pursuant to 326 IAC 6.5-1-2(a) PM emissions from the space heaters which were existing and in operation on or before June 8, 1972, be limited to three hundredth (0.03) grain per dry standard cubic foot (dscf) when burning natural gas.
- (c) Pursuant to 326 IAC 6.5-1-2(a) PM emissions from each of the dry-off ovens which were existing and in operation on or before June 8, 1972, be limited to three hundredth (0.03) grain per dry standard cubic foot (dscf) each when burning natural gas.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Bootz Manufacturing Company
Source Address: 1400 Park Street Evansville, Indiana 47710 (Plant 1)
2301 Maryland Street, Evansville, Indiana, 47712 (Plant 2)
FESOP Permit No.: F163-28498-00011

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:

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**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Bootz Manufacturing Company
Source Address: 1400 Park Street Evansville, Indiana 47710 (Plant 1)
2301 Maryland Street, Evansville, Indiana, 47712 (Plant 2)
FESOP Permit No.: F163-28498-00011

This form consists of 2 pages

Page 1 of 2

- | |
|---|
| <input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) daytime business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|---|

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
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 AND ENFORCEMENT BRANCH**

FESOP Quarterly Report

Source Name: Bootz Manufacturing Company
Source Address: 1400 Park Street Evansville, Indiana 47710 (Plant 1)
2301 Maryland Street, Evansville, Indiana, 47712 (Plant 2)
FESOP Permit No.: F163-28498-00011
Facility: Two (2) Largeware Porcelain Enamel booths (Booths #1 and #2)
Parameter: PM₁₀ and PM_{2.5} emissions
Limit: The total amount of solids delivered to the applicators of the one (1) Largeware Porcelain Enamel booth (Booth #1) and the one (1) Largeware Porcelain Enamel booth (Booth #2) exhausting through the cartridge filter house exhaust shall not exceed 17,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 99% control efficiency of each of the cartridge filter houses.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Solids Input This Month	Solids Input Previous 11 Months	Solids Input 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 and Enforcement Branch
FESOP Quarterly Report

Source Name: Bootz Manufacturing Company
Source Address: 1400 Park Street, Evansville, Indiana 47710 (Plant 1)
2301 Maryland Street, Evansville, Indiana 47712 (Plant 2)
FESOP No.: F163-28498-00011
Facility: Urea Foam spray booths
Parameter: PM₁₀ and PM_{2.5} emissions
Limit: The solids delivered to the applicators of the four (4) Urea Foam spray booths, Booth #1, Booth #2A, Booth #2B, and Fog Booth #3 exhausting through S/V 1, S/V 2, S/V 3 and S/V 4, respectively, shall not exceed 3,100 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 90% control efficiency of the dry filters.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Solids Input This Month (tons)	Solids Input Previous 11 Months (tons)	12 Month Total Solids Input (tons)
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 and Enforcement Branch**

FESOP Quarterly Report

Source Name: Bootz Manufacturing Company
 Source Address: 1400 Park Street, Evansville, Indiana 47710 (Plant 1)
 2301 Maryland Street, Evansville, Indiana 47712 (Plant 2)
 FESOP No.: F163-28498-00011
 Facility: cover coat spray booth
 Parameter: PM₁₀ and PM_{2.5} emissions
 Limit: The solids delivered to the applicators of the cover porcelain enamel coat spray booth exhausting through the cartridge filter house exhaust shall not exceed 140,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 99.9% control efficiency of the cartridge filter house.

YEAR: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Solids Input This Month (tons)	Solids Input Previous 11 Months (tons)	12 Month Total Solids Input (tons)
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 AND ENFORCEMENT BRANCH
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Bootz Manufacturing Company
Source Address: 1400 Park Street Evansville, Indiana 47710 (Plant 1)
2301 Maryland Street, Evansville, Indiana, 47712 (Plant 2)
FESOP Permit No.: F163-28498-00011

Months: _____ to _____ Year: _____

Page 1 of 2

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

**Indiana Department of Environmental Management
Office of Air Quality**

Technical Support Document (TSD) for a Significant Permit Revision to a
Federally Enforceable State Operating Permit (FESOP)

Source Description and Location

Source Name:	Bootz Manufacturing Company
Source Location:	1400 Park Street, Evansville, IN 47712 (Plant 1) 2301 Maryland St., Evansville, IN 47710 (Plant 2)
County:	Vanderburgh
SIC Code:	3469
Operation Permit No.:	F 163-28498-00011
Significant Permit Revision No.:	F 163-29839-00011
Permit Reviewer:	Deborah Cole

On October 29, 2010 the Office of Air Quality (OAQ) received an application from Bootz Manufacturing Company related to a modification to an existing stationary fabricated metal bathtub, sink, and lavatory manufacturing operations, located at 1400 Park Street, Evansville, Indiana 47710 (Plant #1) and 2301 Maryland Street, Evansville, Indiana 47712 (Plant #2).

Source Definition

This stationary fabricated metal bathtub, sink, and lavatory manufacturing operations consists of two (2) plants:

- (a) Plant 1 is located at 1400 Park Street, Evansville, Indiana 47712; and
- (b) Plant 2 is located at 2301 Maryland Street, Evansville, Indiana 47710.

These plants are located on adjacent properties, 50% of products from Plant #1 are exchanged to Plant #2, and the two (2) plants are owned by one (1) company, they are considered one (1) source effective from the date of issuance of Part 70 permit No. T163-6551-00011, issued on June 16, 1999.

Existing Approvals

The source was issued FESOP Renewal No. 163-28498-00011 on May 21, 2010. The source has since received the following approvals:

- (a) First Administrative Amendment No. 163-29322-00011, issued on June 29, 2010; and
- (b) Second Administrative Amendment No. 163-29654-00011, issued on September 29, 2010.

County Attainment Status

The source is located in Vanderburgh County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective January 30, 2006, for the Evansville area, including Vanderburgh County, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Attainment effective October 18, 2000, for the 1-hour ozone standard for the Evansville area, including Vanderburgh County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour designation was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM2.5.	

(Air Pollution Control Board; 326 IAC 1-4-83; filed Dec 26, 2007, 1:43 p.m.: 20080123-IR-326070308FRA)

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Vanderburgh County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

- (b) **PM2.5**
 U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Vanderburgh as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM2.5 promulgated on May 8th, 2008, and effective on July 15th 2008. Therefore, direct PM2.5 and SO2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

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

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Status of the Existing Source

The table below summarizes the potential to emit of the entire source, prior to the proposed revision, after consideration of all enforceable limits established in the effective permits:

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Plant #2 Largeware Porcelain Enamel booth, Booth#1	16.61 ⁽¹⁾	25.5 ⁽²⁾	25.5 ⁽²⁾	-	-	-	-	-	negl.
Plant #2 Largeware Porcelain Enamel booth, Booth #2	28.16 ⁽¹⁾			-	-	-	-	-	negl.
Plant #2 cover coat spray booth & slip resistant coating booth	41.85 ⁽¹⁾	21 ⁽²⁾	21 ⁽²⁾	-	-	-	-	-	negl.
Plant #2 Urea Foam spray booth, Booth #1	16.61 ⁽¹⁾	46.5 ⁽²⁾	46.5 ⁽²⁾	-	-	-	-	-	negl.
Plant #2 Urea Foam spray booth, Booth #2A	18.98 ⁽¹⁾			-	-	-	-	-	negl.
Plant #2 Urea Foam spray booth, Booth #2B	18.98 ⁽¹⁾			-	-	-	-	-	negl.
Plant #2 Urea Foam spray booth, Fog Booth #3	14.64 ⁽¹⁾			-	-	-	-	-	negl.
Largeware and Porcelain furnaces	0.20	0.80	0.80	0.06	0.58	8.84	10.53	0.20	0.19 (Hexane)
Insignificant Activities**	0.19	0.62	0.62	0.05	7.53	3.56	6.33	0.29	0.29 (Manganese)
Total PTE of Entire Source	156.22	94.42	94.42	0.11	8.11	12.40	16.86	0.490	0.29 (Manganese)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	NA	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA

negl. = negligible
 * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.
 **Insignificant activities include (1) boiler, three (3) dry-off ovens, one (1) parts cleaner, adhesive usage, and welding.
 (1) PM emissions from each of the spray coatings are limited to 0.03 grains per dry standard cubic foot at specific flow rates.
 (2) PM10 and PM2.5 Limitations are based on the amount of revised solids delivered to the applicators of paint spray booths based on the equation: Solids delivered to the Applicators for each unit *(1-transfer efficiency) x (1- control Efficiency).

This table which shows the Potential to Emit of the Entire Source before Revision was taken from FESOP Renewal #F163-28948-00011, issued on May 21, 2010.

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is not a major stationary source under Emission Offset (326 IAC 2-3), because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or more.
- (c) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the unlimited potential to emit HAPs are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Bootz Manufacturing Company on October 29, 2010 relating to the increased capacity of the three (3) Urea Foam spray booths, identified as Booth #1, Booth #2A and #2B and Fog Booth # 3, currently permitted at the source.

The source is increasing the throughput of each urea foam spray booth based on improved automation and technology. Each urea foam spray booth currently coats 29 units per hour. The source is requesting an increase to 120 units per hour for Booths #1 and #3 and an increase to 120 units per hour combined for Booths #2A and #2B.

There are no new emission units involved in this revision.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – FESOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-8.11.1. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit

Process/ Emission Unit	PTE of Proposed Revision (tons/year)								
	PM	PM ₁₀ [*]	PM _{2.5}	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Plant #2, Urea Foam spray booth, Booth #1	0	134.52 ¹	134.52 ¹						
Plant #2, Urea Foam spray booth, Booth #2A	18.98								
Plant #2, Urea Foam spray booth, Booth #2B	18.98								
Plant #2, Urea Foam spray booth, Fog Booth #3	14.64								
Total PTE of Proposed Revision	52.60	134.52	134.52						

negl. = negligible
^{*} Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM₁₀), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM₁₀ emissions as surrogate for PM_{2.5} emissions.
¹The PTE shown in this table of the proposed increased in the throughput in the foam urea booth area reflects the difference in PTE after control between the original throughput of 29 units per hour and the increase to 120 units per hour: (177.39 tpy - 42.87 tpy) = 134.52 tpy.
 NOTE: The portions of the table left blank indicate that the pollutant is not emitted by the emission unit.

This proposed increase throughput in the urea foam spray booth operation has the potential to emit greater than twenty-five (25) tons per year of PM, PM₁₀ and PM_{2.5}. Therefore, pursuant to the provisions of 326 IAC 2-8-11.1(f)(1)(E), this modification is a Significant Permit Revision.

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source to Accomodate Proposed Revision (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Plant #2 Largeware Porcelain Enamel booth, Booth#1	16.61 ⁽¹⁾	25.5 ⁽²⁾	25.5 ⁽²⁾	-	-	-	-	-	negl.
Plant #2 Largeware Porcelain Enamel booth, Booth #2	28.16 ⁽¹⁾			-	-	-	-	-	negl.
Plant #2 cover coat spray booth & slip resistant coating booth	41.85 ⁽¹⁾	21 ⁽²⁾	21 ⁽²⁾	-	-	-	-	-	negl.
Plant #2 Urea Foam spray booth, Booth #1	16.61 ⁽¹⁾	46.5 ⁽²⁾	46.5 ⁽²⁾	-	-	-	-	-	negl.
Plant #2 Urea Foam spray booth, Booth #2A	18.98 ⁽¹⁾			-	-	-	-	-	negl.
Plant #2 Urea Foam spray booth, Booth #2B	18.98 ⁽¹⁾			-	-	-	-	-	negl.
Plant #2 Urea Foam spray booth, Fog Booth #3	14.64 ⁽¹⁾			-	-	-	-	-	negl.
Largeware and Porcelain furnaces	0.20	0.80	0.80	0.06	0.58	8.84	10.53	0.20	0.19 (Hexane)
Insignificant Activities**	0.19	0.62	0.62	0.05	7.53	3.56	6.33	0.29	0.29 (Manganese)
Total PTE of Entire Source	156.22	94.42	94.42	0.11	8.11	12.40	16.86	0.490	0.29 (Manganese)
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	NA	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA

negl. = negligible
 * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.
 **Insignificant activities include (1) boiler, three (3) dry-off ovens, one (1) parts cleaner, adhesive usage, and welding.
 (1) PM emissions from each of the spray coatings are limited to 0.03 grains per dry standard cubic foot at specific flow rates.
 (2) PM10 and PM2.5 Limitations are based on the amount of revised solids delivered to the applicators of paint spray booths based on the equation: Solids delivered to the Applicators for each unit *(1-transfer efficiency) x (1- control Efficiency). These limits were established in F(SPR)163-28161-00011 and will not be changed as a result of this increase in throughput.

FESOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP).

The source has increased throughput in the urea foam spray booth operation booth but no limits have been changed. Therefore, in order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the source shall comply with the following limits which were established in FESOP (SPR) 163-28161-00011.

- (a) Pursuant to 326 IAC 2-8-4, PM₁₀ and PM_{2.5} emissions from each of the two (2) Largeware Porcelain Enamel booths, the Urea Foam spray booths, the cover coat spray booth, and the slip resistant coating booth, shall be limited as follows:
 - (1) The total amount of solids delivered to the applicators of the one (1) Largeware Porcelain Enamel booth (Booth #1) exhausting through stack S/V 7 and the one (1) Largeware Porcelain Enamel booth (Booth #2) exhausting through the cartridge filter house exhaust shall not exceed 17,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 99% control efficiency of each of the water curtain and the cartridge filter house;
 - (2) The solids delivered to the applicators of the Urea Foam spray booths, identified as Booth #1, Booth #2A, Booth #2B, and Fog Booth #3 exhausting through S/V 1, S/ V 2, S/ V3, and S/ V4 respectively, shall not exceed 3,100 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 90% control efficiency of the dry filters; and
 - (3) The solids delivered to the applicators of the porcelain enamel cover coat spray booth and the slip resistant coating booth, exhausting through the cartridge filter house exhaust shall not exceed 140,000 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, based on a spray coating transfer efficiency of 85% and 99.9% control efficiency of the cartridge filter house.

Following table lists the limited PM₁₀ and PM_{2.5} emissions based on the revised solid delivered to the applicators:

Emission Unit	Limited Throughput (tons/yr)	Limited PTE *PM ₁₀ (tons/yr)	* Limited PTE PM _{2.5} (tons/yr)
(2) Largeware Porcelain Enamel booths (Booth #1 & Booth#2)	17,000	25.5	25.5
(4) Urea Foam spray booths (Booth#1, Booth #2A, Booth #2B, Fog Booth #3)	3,100	46.5	46.5
cover coat spray booth and slip resistant coating booth	140,000	21.0	21.0

*Limited emissions were arrived using following equation:

$$= \text{Solids delivered to the Applicators for each unit} \times (1 - \text{transfer efficiency}) \times (1 - \text{control Efficiency})$$

Compliance with these limits, combined with the potential to emit PM₁₀ and PM_{2.5} from all other emission units at this source, shall limit the source-wide total potential to emit of PM₁₀ and PM_{2.5} to less than 100 tons per 12 consecutive month period, each, and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), 326 IAC 2-3 (Emission Offset), and 326 IAC 2-1.1-5 (Nonattainment New Source Review), not applicable.

- (b) PSD Minor Source [326 IAC 2-2]
 This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

- (c) 326 IAC 6.5 -1-2 (Particulate Matter limitations except Lake County)
 The following emission units listed in the table are subject to PM emission limitations as specified in 326 IAC 6.5-1-2(a) because they have been constructed at a source which is located in Vanderburgh County, not specifically listed in 326 IAC 6.5-2 through 326 IAC 6.5-10, and have potential to emit of PM greater than 100 tons per year. Pursuant to 326 IAC 6.5-1-2(a), particulate matter (PM) emissions from each of the following operations shall be limited to seven-hundredths (0.07) gram per dry standard cubic meter (g/dscm) (three-hundredths (0.03) grain per dry standard cubic foot (gr/dscf) of exhaust air.

Emission Unit , Stack ID	Flow rate (dscf)	PM Emission Rate (lbs/hr)	PM Emission Rate (tons/yr)
(1) Largeware Porcelain Booth # 1 , S/V 7	14,749	3.79	16.61
(1) Largeware Porcelain Booth # 2 , Cartridge filter house	25,000	6.43	28.16
(1) Urea Foam spray Booth #1 S/V 1	14,749	3.79	16.61
(1) Urea Foam spray Booth #2A S/V 2	16,856	4.33	18.98
(1) Urea Foam spray Booth #2B S/V 3	16,856	4.33	18.98
(1) Urea Foam spray Booth #3 S/V 4	13,000	3.34	14.64
(1) Porcelain Enamel cover coat spray booth and (1) slip resistant coating booth	37,156	9.55	41.82
Total			155.80

- (d) Emission Offset Minor Source
 This modification to an existing Emission Offset minor stationary source will not change the Emission Offset minor status, because the potential to emit of all nonattainment regulated pollutants from the entire source will continue to be less than the Emission Offset major source threshold levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

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

National Emission Standards for Hazardous Air Pollutants (NESHAP)

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

Compliance Assurance Monitoring (CAM)

- (c) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to less than the Title V major source thresholds and the source is not required to obtain a Part 70 or Part 71 permit.

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-8-4 (FESOP)
 This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP). See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- (c) 326 IAC 2-3 (Emission Offset) and (for PM_{2.5} nonattainment counties) 326 IAC 2-1.1-5 (Nonattainment New Source Review)
This modification to an existing Emission Offset minor stationary source will not change the Emission Offset minor status, because the potential to emit of all nonattainment regulated pollutants from the entire source will continue to be less than the Emission Offset major source threshold levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- This modification to an existing minor stationary source under 326 IAC 2-1.1-5 (Nonattainment New Source Review) will not change the minor status, because the potential to emit of PM_{2.5} from the entire source will continue to be less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- (d) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (e) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (f) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
- (1) 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.
 - (2) 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.
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
Due to this revision, the source is not subject to the requirements of 326 IAC 6-5, because Vanderburgh County is not subject to the provisions of this rule, because the potential fugitive particulate emissions are less than 25 tons per year.
- (i) 326 IAC 8 (VOC Rules)
The Urea Foam spray booths, at this source are not subject to the requirements of 326 IAC 8-1-6 and 326 IAC 8-2-9. The Urea Foam spray booths use water based or non-VOC coatings and do not emit VOC. Therefore, they are not subject to 326 IAC 8 (VOC rules).

- (j) There are no other 326 IAC 8 Rules that are applicable to this modification.

Compliance Determination, Monitoring and Testing Requirements

The existing compliance requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in FESOP No: 163-28498-00011, issued on May 21, 2010.

This source is not required to perform stack testing because compliance with the particulate matter emission limits for the surface coating operations can be determined by compliance monitoring of the control devices and emissions calculations based on the solids content of the coatings which can be obtained from MSDS. The facility also complies with the limits of 326 IAC 2-2 (Prevention of Significant Deterioration) with throughput limits.

Proposed Changes

The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary (Plant #2) source consists of the following emission units and pollution control devices:

...

(c) Urea Foam Spray Booths:

- (1) One (1) Urea Foam spray booth, identified as Booth #1, constructed in 1992, capable of coating ~~29~~ **120** units per hour. This booth is equipped with an air atomization spray system, with dry filters to control the PM over spray, at a maximum flow rate of 14, 749 dry standard cubic feet per minute, exhausting to stack S/V 1;
- (2) Two (2) Urea Foam spray booths, identified as Booth #2A and Booth #2B constructed in 2009, capable of coating ~~29~~ **120** units per hour ~~combined in~~ **using** both booths. The booths share an air atomization spray system, with dry filters to control PM over spray, at a maximum flow rate of 16,856 dry standard cubic feet per minute each, exhausting to stack S/V 2 and S/V 3 respectively;
- (3) One (1) Urea Foam spray booth, identified as Fog Booth #3, constructed in 2009, capable of coating ~~29~~ **120** units per hour, equipped with an air atomization spray system, with dry filters to control the PM over spray, at a maximum flow rate of 13, 000 dry standard cubic feet per minute, exhausting to stack S/V 4. This air atomization spray system can also be used in Booth #2B at a maximum flow rate of 16,856 dry standard cubic feet per minute.

Facility Description [326 IAC 2-8-4(10)]:

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- ...
- (c) **Urea Foam spray booths:**
- (1) One (1) Urea Foam spray booth, identified as Booth #1, constructed in 1992, capable of coating ~~29~~ **120** units per hour. This booth is equipped with an air atomization spray system, with dry filters to control the PM over spray, at a maximum flow rate of 14,749 dry standard cubic feet per minute, exhausting to stack S/V 1;
 - (2) Two (2) Urea Foam spray booths, identified as Booth #2A and Booth #2B approved for construction in 2009, capable of coating ~~29~~ **120** units per hour ~~combined in using~~ both booths. The booths share an air atomization spray system, with dry filters to control PM over spray, at a maximum flow rate of 16,856 dry standard cubic feet per minute each, exhausting to stacks S/V 2 and S/V 3 respectively;
 - (3) One (1) Urea Foam spray booth, identified as Fog Booth #3, approved for construction in 2009, capable of coating ~~29~~ **120** units per hour, equipped with an air atomization spray system, with dry filters to control the PM over spray, at a maximum flow rate of 13,000 dry standard cubic feet per minute, exhausting to stack S/V 4;
- ...

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on June 29, 2009.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Revision No. 163-29839-00011. The staff recommends to the Commissioner that this FESOP Significant Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Deborah Cole at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (234-5376) or toll free at 1-800-451-6027 extension (45376).
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Attachment A: Emission Calculations

Company Name: Bootz Manufacturing Company
 Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
 2301 Maryland Street, Evansville, Indiana 47712 (Plant #2)
 FESOP Renewal No.: F163-28498-00011
 First SPR No.: F163-29839-00011
 Reviewer: Deborah Cole

Total Potential To Emit (tons/year)							
Emissions Generating Activity							
Pollutant	(2) Largeware Porcelain Enamel Booths #1 & #2	Porcelain Enamel cover coat and slip resistance spray booths	Urea Spray booth#1	Urea Spray booths #2A, #2B, #3	Largeware & Porcelain Furnace	Insignificant Activities* welding, adhesive, combustion	TOTAL
PM	597.0	822.69	142.90	285.795	0.20	0.20	1848.79
PM10**	597.0	822.69	142.90	285.795	0.80	0.64	1849.83
PM2.5	597.0	822.69	142.90	285.795	0.80	0.64	1849.83
SO2	0.00	0.00		0.00	0.06	0.05	0.11
NOx	0.00	0.00		0.00	10.53	7.78	18.31
VOC	0.00	0.00		0.00	0.58	0.43	1.01
CO	0.00	0.00		0.00	8.85	6.54	15.38
total HAPs	negl.	negl.	negl.	negl.	negl.	0.639	0.639
worst case single HAP	negl.	negl.		negl.	negl.	(Manganese) 0.29	(Manganese) 0.29

Controlled Emissions (tons/year)							
Emissions Generating Activity							
Pollutant	(2) Largeware Porcelain Enamel Booths	Porcelain Enamel cover coat and slip resistance spray booths	Urea Spray booth#1	Urea Spray booths #2A, #2B, #3	Largeware & Porcelain Furnace	Insignificant Activities* welding, adhesive, combustion	TOTAL
PM	5.97	0.82	14.29	28.58	0.20	0.20	50.06
PM10**	5.97	0.82	14.29	28.58	0.80	0.64	51.10
PM2.5	5.97	0.82	14.29	28.58	0.80	0.64	51.10
SO2	0.00	0.00			0.06	0.05	0.11
NOx	0.00	0.00			0.58	7.78	8.36
VOC	0.00	0.00			8.85	0.43	9.28
CO	0.00	0.00			10.53	6.54	17.07
total HAPs	negl.	negl.			negl.	0.639	0.639
worst case single HAP	negl.	negl.			negl.	(Manganese) 0.29	(Manganese) 0.29

Limited and Controlled Emissions (tons/year)							
Emissions Generating Activity							
Pollutant	(2) Largeware Porcelain Enamel Booths	Porcelain Enamel cover coat and slip resistance spray booths	Urea Spray booth#1	Urea Spray booths #2A, #2B, #3	Largeware & Porcelain Furnace	Insignificant Activities* welding, adhesive, combustion	TOTAL
PM	44.77	41.85	16.61	52.61	0.20	0.20	156.24
PM10**	25.5	21.00		46.5	0.80	0.64	94.44
PM2.5**	25.5	21.00		46.5	0.80	0.64	94.44
SO2		0.00			0.06	0.05	0.11
NOx		0.00			0.58	7.78	8.36
VOC		0.00			8.85	0.43	9.28
CO		0.00			10.53	6.54	17.07
total HAPs		negl.			negl.	0.639	0.639
worst case single HAP		negl.	negl.	negl.	Hexane (0.20)	(Manganese) 0.29	(Manganese) 0.29

* Insignificant activities include (1) boiler, three (3) dry-off ovens, one (1) parts cleaner, seven space heaters, adhesive usage, and welding.
 Total emissions based on rated capacities at 8,760 hours/year.

NOTES:

** Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

There is no emission factor in AP42 for PM2.5, PM10 = PM2.5

**PM10 and PM2.5 emissions are based on the limited solid delivered to the applicators of paint spray booths.

Appendix A: Emission Calculations
VOC and Particulate

From Surface Coating Operations Largeware Booths, Cover Coat Spray booths Plant #2 and Adhesives

Operation Permit No.: F163-27781-00011
 Company Name: Bootz Manufacturing Company
 Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
 2301 Maryland Street, Evansville, Indiana 47712 (Plant #2)
 FESOP Renewal No.: F163-28498-00011
 First SPR No.: F163-29839-00011
 Reviewer: Deborah Cole

Potential Uncontrolled Emissions:																		
Material (as applied)	Process	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Gal of Mat (gal/unit)	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC tons per day	Potential VOC tons per year	Particulate Potential ton/yr	lb VOC /gal solids	Transfer Efficiency	
Frit	(2) Largeware Booths #1 and #2	14.50	30.60%	30.60%	0.00%	30.60%	46.80%	0.430	210.00	0.0	0.00	0.00	0.00	0.00	597.01	0.00	85.00%	
Frit	Cover Coat Spray Booth	14.19	26.00%	26.00%	0.00%	53.00%	47.00%	0.450	285.00	0.0	0.00	0.00	0.00	0.00	822.69	0.00	85.00%	
Adhesive Usage																		
M3201EB Basin Adhesive	Insignificant Activity	10.77	15.41%	0.00%	15.41%	0.00%	71.60%	0.062	7.00	1.7	1.66	0.72	17.29	3.15	0.00	2.32	99.99%	
H2315-02 Hot Melt Adhesive	Insignificant Activity	7.83	0.00%	0.00%	0.00%	0.00%	100.00%	1.000	48.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	100.00%	
Total State Potential Emissions (FOR PLANT #2):														17.29	3.15	1449.70		

Potential Controlled Emissions:									
Material Usage Limitation	Control Efficiency:		Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr			
	VOC	PM							
N/A	0.00%	99.00%	0.00	0.00	0.00	5.97			
N/A	0.00%	99.90%	0.00	0.00	0.00	0.82			
N/A	0.00%	90.00%	0.72	17.29	3.15	0.00			
			0.72	17.29	3.15	6.79			

Total Federal Potential Emissions Largeware Booths:
 Total Federal Potential Emissions Cover Coat Spray Booth:
 Total Federal Potential Emissions Insignificant Activities:
Total Federal Potential Emissions (FOR PLANT #2):

Methodology:
 Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1 - Volume % water)
 Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
 Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
 Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
 Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Particulate Potential Tons per Year = (units/hour) * (lb/gal) * (1 - Weight % Volatiles) * (1 - Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
 Pounds VOC per Gallon of Solids = (Density (lb/gal) * Weight % organics) / (Volume % solids) * Transfer Efficiency
 Total = Worst Coating + Sum of all solvents used
 Controlled emission rate = uncontrolled emission rate * (1 - control efficiency)
 Note: Adhesives do not contain HAPs.

Attachment A: Emission Calculations
VOC and Particulates
From Surface Coating Operations

Company Name: Bortz Manufacturing Company
Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
2301 Maryland Street, Evansville, Indiana 47712 (Plant #2)
FESOP No.: F 163-28498-00011
First SPR No.: F 163-28498-00011

Proposed Modification - Increase in Throughput of the Urea Foam Spray Booths - #1, #2A, #2B and Fog Booth #3 located in Plant 2

Material (as applied)	Process	Density (Lb/Gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non-Vol (solids)	Lbs/Unit	Maximum (unit/hour)	Pounds VOC per gallon of coating less water	Pounds VOC per gallon of coating	Potential VOC pounds per hour	Potential VOC tons per year	Potential VOC lbs per day	Potential VOC tons per year	Transfer Efficiency	
												Potential VOC pounds per hour	Potential VOC tons per year	Potential VOC lbs per day	Potential VOC tons per year		
PLANT #2																	
Synlon Urea	Urea Foam Spray Booth #1	8.20	0.00%	0.00%	0.00%	0.00%	100.00%	7.50	120.00	0.0	0.00	0.00	0.00	0.00	591.30	0.00	85.00%
Synlon Urea	Urea Foam Spray Booth #2A	8.20	0.00%	0.00%	0.00%	0.00%	100.00%	7.50	60.00	0.0	0.00	0.00	0.00	0.00	295.65	0.00	85.00%
Synlon Urea	Urea Foam Spray Booth #2B	8.20	0.00%	0.00%	0.00%	0.00%	100.00%	7.50	60.00	0.0	0.00	0.00	0.00	0.00	295.65	0.00	85.00%
Synlon Urea	Fog Booth #3	8.20	0.00%	0.00%	0.00%	0.00%	100.00%	7.50	120.00	0.0	0.00	0.00	0.00	0.00	591.30	0.00	85.00%
												0.00	0.00	0.00	1773.90		

Potential Emissions for the Urea Foam Spray Booths located in PLANT #2:

Material Usage Limitation	Control Efficiency:		Controlled VOC lbs per Hour	Controlled VOC lbs per Day	Controlled VOC tons per Year	Controlled PM tons/yr ¹
	VOC	PM				
N/A	0.00%	80.00%	0.00	0.00	0.00	59.13
N/A	0.00%	80.00%	0.00	0.00	0.00	29.57
N/A	0.00%	80.00%	0.00	0.00	0.00	29.57
N/A	0.00%	80.00%	0.00	0.00	0.00	59.13
			0.00	0.00	0.00	177.39

Previous Controlled PM emissions (tpy) for the Booths #1, #2A, #2B and #3: 42.87
Potential to Emit PM (tpy) of the Proposed Revision: 177.39
Actual Increase in PM Emissions from Proposed Revision: 134.52

¹ The PM in the Urea Spray Booth area has particulate matter limits specified in FESOP No. F163-28498-00011, issued on May 21, 2010. This amendment did not require any changes to existing limits. Please see the Urea Methodology.

Methodology:
Pounds of VOC per Gallon Coating = (Density (lb/gal)) * (Weight % Organics) / (1 - Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal)) * (Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon Coating (lb/gal) * Gal of Material (gall/unit) * Maximum (unit/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon Coating (lb/gal) * Gal of Material (gall/unit) * Maximum (unit/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon Coating (lb/gal) * Gal of Material (gall/unit) * Maximum (unit/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (unit/hr) * (lb/gal) * (1 - Weight % Volatiles) / (Volume % solids) * (Transfer efficiency) * (8760 hrs/yr) * (1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lb/gal)) * (Weight % organics) / (Volume % solids) * Transfer Efficiency
Total = Worst Coating + Sum of all solvents used
Controlled emission rate = uncontrolled emission rate * (1 - control efficiency)
Note: Adhesives do not contain HAPs.

Appendix A: Emission Calculations
PM and PM10 Emissions From Surface Coating Operations

Company Name: Bootz Manufacturing Company
Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
 2301 Maryland Street, Evansville, Indiana 47712 (Plant #2)
FESOP Renewal No.: F163-28498-00011
First SPR No.: F163-29839-00011
Reviewer: Deborah Cole

Limited PTE PM							
Process	No. of Units	Grain Loading per Actual Cubic Foot of Outlet Air	Air flow rate (Square Feet) (ACFM)	Control Efficiency	Total PM		Total tons/yr PTE
					lbs/hr	tons/yr	
					after control		before control
Largeware Porcelain enamel spray(Booth #1)	1	0.03	14749.0	90%	3.79	16.61	166.12
Largeware Porcelain enamel spray(Booth #2)	1	0.03	25000.0	90%	6.43	28.16	281.57
Total- Largeware Porcelain spray Booths						44.77	447.69
cover coat spray & slip resistant coating booths	1	0.03	37156.0	90%	9.55	41.85	418.48
Urea Foam spray Booth #1	1	0.03	14749.0	90%	3.79	16.61	166.12
Urea Foam spray Booth #2A	1	0.03	16856.0	90%	4.33	18.98	189.85
Urea Foam spray Booth #2B	1	0.03	16856.0	90%	4.33	18.98	189.85
Urea Foam spray Fog Booth #3	1	0.03	13000.0	90%	3.34	14.64	146.42
Total-Urea Foam spray Booth #2A, Booth #2B, Booth#3						52.61	526.11

Total

155.84	1558.40
---------------	----------------

Limited PTE PM10

Process	Limited Throughput (tons/yr)	Limited PTE PM10 (tons/yr)	Limited PTE PM2.5 (tons/yr)
(2) Largeware Porcelain Enamel booths (Booth #1 & Booth#2)	17,000	25.5	25.5
(4) Urea Foam spray booths (Booth#1, Booth #2A, Booth #2B, Fog Booth #3)	3,100	46.5	46.5
cover coat spray booth and slip resistant coating booth	140,000	21.0	21.0

Total Emissions Based on Rated Capacity at 8,760 Hours/Year

US EPA has directed states to regulate PM10 emissions as surrogate for PM2.5 emissions.

Methodology:

Potential (uncontrolled):

Emissions rate (PM) = PM after controls (ton/yr)/(1-control efficiency)

Emissions rate (PM) = Grain loading per actual cubic foot of air outlet (gr/cf)*Air flow rate

in actual cubic feet per minute*60 minutes per hour/7000 grains per pound/2000pounds*8760 hours per year.

Limited PTE of PM10 spray coating :

*Limited PTE (PM10) tons/yr = Limited throughput (tons/yr) *(1-transfer efficiency) x (1- control Efficiency)

**Appendix A: Emission Calculations
HAP Emissions - Potential to Emit
Adhesive Operation**

Company Name: Bootz Manufacturing Company
Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
 2301 Maryland Street, Evansville, Indiana 47712 (Plant #2)
FESOP Renewal No.: F163-28498-00011
First SPR No.: F163-29839-00011
Reviewer: Deborah Cole

PLANT #2

Using the Society of Plastics Industry method of MDI estimations (taken from SMF # 163-8330-00021)
 Methylene Diphenyl Diisocyanate (MDI) from Syniron Urea:

$$W = [25.4 * Pt * Mt * (u^{0.78}) * A] / T$$

where:

W = evaporation rate of MDI (gram/sec) =	6.75E-03 gr/sec
Pt = liquid vapor pressure (atm.) =	1.80E-04 atm.
Mt = average molecular wt. =	250 for MDI
T = temp. (Kelvin) =	343 Kelvin
u = airflow (m/sec.) =	0.66 m/sec
A = area exposed (sq. meters) =	2.80 ft ²

Given: fan capacity = 19,000 cfm
 Area of booth = 145.7 ft²

$$u = \frac{19,000 \text{ cfm} * 1 \text{ min}}{145.7 \text{ ft}^2 * 60 \text{ sec}} = \frac{316.7 \text{ ft}^3/\text{min}}{8742 \text{ ft}^3} = 0.0362 \text{ ft/min} = \frac{0.0362 \text{ ft/min} * 1 \text{ m}}{3.28 \text{ ft}} = 0.011 \text{ m/min} = 0.66 \text{ m/sec}$$

Temperature T = 158 deg. F = 343 deg. K
 Vapor Pressure of MDI at 70 deg. C = 1.40E-01 mm Hg

$$Pt = \frac{1.40E-01 \text{ mm Hg}}{760} = 1.84E-04$$

$$\text{Area Exposed} = \frac{30.5 \text{ ft}^2 * 1 \text{ m}^2}{10.7 \text{ ft}^2} = 2.85 \text{ ft}^2$$

$$\text{Bath Tub Mold: MDI per mold/tub} = (6.75 * 10^{-3} \text{ gr/sec}) * (10 \text{ sec/mold}) * (1 \text{ lb}/454 \text{ gr}) = 1.50E-06 \text{ lb/tub}$$

$$\text{Total MDI Emission} = (1.5 * 10^{-6} \text{ lb/tub}) * (40 \text{ tubs/day}) * (365 \text{ days/yr}) * (1 \text{ ton}/2000 \text{ lb}) = 1.09E-05 \text{ ton/yr}$$

Company Name: Bootz Manufacturing Company
Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
 2301 Maryland Street, Evansville, Indiana 47712 (Plant #2)
FESOP Renewal No.: F163-28498-00011
First SPR No.: F163-29839-00011
Reviewer: Deborah Cole

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING											
Gas Metal Arc Welding	1	2.095	0.0052	0.0318	0.0001	0.0001	0.011	0.067	0.000	0.00021	0.067
EMISSION TOTALS											
Potential Emissions lbs/hr							0.011	0.067	0.000	0.000	0.067
Potential Emissions lbs/day							0.261	1.599	0.005	0.005	1.609
Potential Emissions tons/year							0.048	0.292	0.001	0.001	0.294

METHODOLOGY

*Emission Factors are values for E70S electrode type.
 Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of elect
 Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day
 Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,
 Refer to AP-42, Chapter 12.19 for emission factors for welding.

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Combustion- Space heaters and furnaces

Company Name: Bootz Manufacturing Company
Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
 2301 Maryland Street, Evansville, Indiana-47712 (Plant #2)
FESOP Renewal No.: F-163-28498-00011
Reviewer: Swarna Prabha

Potential Throughput
 MMCF/yr

58.6
65.7
26.3
1.1
2.6
1.3
102.5
108.2

Heat Input Capacity
 MMBtu/yr

6.695
7.50
3.00
0.12
0.30
0.15
11.70
12.35

Total 366.3

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
1.9	7.6	0.6	**see below	5.5	84.0	
6.685MMBtu/hr Boiler Potential Emission in tons/yr	0.06	0.22	0.02	2.93	0.16	2.46
(3) Ovens Potential Emissions in tons	0.06	0.25	0.02	3.29	0.18	2.76
(1) Water Parts cleaner Potential Emissions in tons	0.02	0.10	0.01	1.31	0.07	1.10
Three (3) Space heater	0.001	0.00	0.00	0.05	0.00	0.04
Three (3) Space heater	0.002	0.01	0.00	0.13	0.01	0.11
One (1) space heater	0.001	0.005	0.000	0.07	0.004	0.06
Total Emissions in tons	0.15	0.59	0.05	7.78	0.43	6.54
Largeware Furn. Potential Emissions in tons	0.10	0.39	0.03	5.12	0.28	4.30
Porcelain Furn. Potential Emissions in tons	0.10	0.41	0.03	5.41	0.30	4.54
Total Emissions in tons	0.20	0.80	0.06	10.53	0.58	8.85

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 **Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/yr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 (SUPPLEMENT D 3/98)
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100
Combustion- Space heaters and furnaces
HAPs Emissions

Company Name: Bootz Manufacturing Company
Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
 2301 Maryland Street, Evansville, Indiana 47712 (Plant #2)
FESOP Renewal No.: F163-28498-00011
First SPR No.: F163-29839-00011
Reviewer: Deborah Cole

	HAPs - Organics			
	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Toluene 3.4E-03
Emission Factor in lb/MMcf				
Potential Emission in tons/yr	3.8E-04	2.2E-04	1.4E-02	6.2E-04
			Hexane 1.8E+00	
				3.3E-01
	HAPs - Metals			
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Nickel 2.1E-03
Emission Factor in lb/MMcf				
Potential Emission in tons/yr	9.2E-05	2.0E-04	2.6E-04	3.8E-04
Total HAPs	0.35			

Methodology is the same as page 4.

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Appendix A: Emission Calculations
Miscellaneous Information

Company Name: Bortz Manufacturing Company
Address City IN Zip: 1400 Park Street, Evansville, Indiana 47710 (Plant #1)
2301 Maryland Street, Evansville, Indiana 47712 (Plant #2)
FESOP Renewal No.: F163-28498-00011
First SPR No.: F163-29839-00011
Reviewer: Deborah Cole

328 IAC 6.5-1-2 (Particulate Matter Limitations except Lake County) Compliance Calculations

The following calculations determine compliance with 328 IAC 6.5-1-2, which limits stack emissions from each paint spray booth to 0.03 gr/dscf.

Urea Foam spray booths
Booth #1 Existing Booth
14.28 ton/yr * 2000 lb/ton = 28,560 gr/yr = 0.026 gr/dscf (will comply)
525,600 min/yr * 14,749 dscf/min = 7,700,000 gr/yr = <0.03 gr/dscf

Note:
SCFM = 15,000 acfm * (460 + 68) / (460 + 77) = 14,749 scfm
Booth #2A - first booth of Booth #2 sharing a gun with B booth
7.14 ton/yr * 2000 lb/ton = 14,280 gr/yr = 0.011 gr/dscf (will comply)
525,600 min/yr * 16,856 dscf/min = 8,850,000 gr/yr = <0.03 gr/dscf

Booth #2B - second booth of Booth #2 sharing a gun with A booth
7.14 ton/yr * 2000 lb/ton = 14,280 gr/yr = 0.011 gr/dscf (will comply)
525,600 min/yr * 16,856 dscf/min = 8,850,000 gr/yr = <0.03 gr/dscf

Booth #3 Fog Booth
14.28 ton/yr * 2000 lb/ton = 28,560 gr/yr = 0.026 gr/dscf (will comply)
525,600 min/yr * 13,000 dscf/min = 6,835,200 gr/yr = <0.03 gr/dscf

Largeware Booth #1
5.97 ton/yr * 2000 lb/ton = 11,940 gr/yr = 0.011 gr/dscf (will comply)
525,600 min/yr * 14,749 dscf/min = 7,700,000 gr/yr = <0.03 gr/dscf

Note:
SCFM = 15,000 acfm * (460 + 68) / (460 + 77) = 14,749 scfm
Allowable particulate emissions pursuant to 328 IAC 6.5-1-2 equate to 16.61 tons/year or 3.70 lbs/hr

Largeware Booth #2
5.97 ton/yr * 2000 lb/ton = 11,940 gr/yr = 0.006 gr/dscf (will comply)
525,600 min/yr * 25,000 dscf/min = 13,140,000 gr/yr = <0.03 gr/dscf

Note:
SCFM = 25,000 acfm * (460 + 68) / (460 + 77) = 25,000 scfm
Allowable particulate emissions pursuant to 328 IAC 6.5-1-2 equate to 28.16 tons/year or 6.43 lbs/hr

Cover Coat Spray Booth
0.82 ton/yr * 2000 lb/ton = 1,640 gr/yr = 0.001 gr/dscf (will comply)
525,600 min/yr * 37,156 dscf/min = 19,510,000 gr/yr = <0.03 gr/dscf

Note:
SCFM = 38,000 acfm * (460 + 68) / (460 + 80) = 37,156 scfm



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: Marc Wanner
Bootz Manufacturing, Inc.
POB 18010
Evansville, IN 47719

DATE: February 10, 2011

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

SUBJECT: Final Decision
FESOP
163-29839-00011

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:
Thomas Bootz, Responsible Official
Elizabeth Hill, Consultant
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



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

February 10, 2011

TO: Evansville Vanderburgh Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: Bootz Manufacturing
Permit Number: 163-29839-00011

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	DPABST 2/10/2011 Bootz Manufacturing Company 163-29839-00011 (Final)		Type of Mail: CERTIFICATE OF MAILING ONLY	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		

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		Marc Wanner Bootz Manufacturing Company PO Box 18010 Evansville IN 47719 (Source CAATS) (CONFIRM DELIVERY)										
2		Thomas Bootz VP - Engineering Bootz Manufacturing Company PO Box 18010 Evansville IN 47719 (RO CAATS)										
3		Evansville City Council and Mayors Office 1NW MLK Blvd, Rm 302 Evansville IN 47708 (Local Official)										
4		Vanderburgh County Commissioners 1 NW MLK Blvd, Rm 305 Evansville IN 47708 (Local Official)										
5		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)										
6		Evansville Vanderburg Public Library 200 SE Martin Luther King Jr. Blvd Evansville IN 47708-1694 (Library)										
7		Mr. Wendell Hibdon Plumbers & Steam Fitters Union, Local 136 2300 St. Joe Industrial Park Dr Evansville IN 47720 (Affected Party)										
8		Ms. Elizabeth Hill Bruce Carter Associates 616 S 4th Street Elkhart IN 46516 (Consultant)										
9		Mr. Don Mottley Save Our Rivers 6222 Yankeetown Hwy Boonville IN 47601 (Affected Party)										
10		Vanderburgh County Health Dept. 420 Milberry Street Evansville IN 47713-1888 (Health Department)										
11		Kim Sherman 3355 Woodview Drive Newburgh IN 47630 (Affected Party)										
12		Mr. John Blair 800 Adams Ave Evansville IN 47713 (Affected Party)										
13		Evansville EPA 100 E. Walnut St. Suite 100, Newsome Center Evansville IN 47713 (Local Official)										
14												
15												

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