

October 23, 2001

Stephen O. Ketcham
Ferro Corporation
5001 O'Hara Drive
Evansville IN 47711-2497

Re: 163-14917-00120
Administrative Amendment to
FESOP 163-5612-00120

Dear Mr. Ketcham:

Ferro Corporation was issued a federally enforceable state operation permit (FESOP) on December 11, 1996 for a specialty plastics plant located at 5001 O'Hara Drive, Evansville IN 47711-2497. A letter requesting a revision was received on September 7, 2001. The request was made to change a pressure drop range on Baghouses EX3 and EX4.

Pursuant to the provisions of 326 IAC 2-8-10(a)(5) the permit is hereby administratively amended as follows:

D.1.14 Pressure Drop Readings

The Permittee shall take readings of the total static pressure drop ranges across all baghouses, at least once per day when any of the blenders and extruders in Buildings 1 and 2 (~~C04, C06, C15, C16, C18, C31, C32, C51, C22, C23, C24, C25 and C45~~) are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop range across the baghouses EX1, EX2, and EX30 shall be maintained at 0.8 to 6.0 inches of water or ranges established during the most recent stack test. Baghouses EX3, and EX4, shall be maintained at a pressure drop range of ~~0.5 to 2.0~~ **0.2 to 4.0** inches of water across the baghouses, or ranges established during the most recent stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of this level for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 Pressure Gauge Specifications, be subject to approval by IDEM, OAQ, and EEPA and shall be calibrated at least once every six (6) months.

Ferro Corporation became subject to 326 IAC 2-6 as a result of Significant Permit Revision 163-10422-00120, issued on March 11, 1999, because it is located in one of the eight counties listed in the rule and it has the potential to emit more than ten (10) tons per year of volatile organic compounds. Condition C.17 is added to the FESOP as follows:

C.17 Emission Statement [326 IAC 2-6]

- (a) **The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4.**
- (b) **The annual emission statement shall cover the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:**

**Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015**

and

**Evansville EPA
101 N.W. Martin Luther King Jr. Boulevard
Evansville, Indiana 47708-9998**

The emission statement does require certification by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) **The annual emission statement 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 on or before the date it is due.**

A formatting error was found in Condition D.1.6. That condition is amended as follows:

D.1.6 General Operation Conditions

- (a) **The data and information supplied in the application shall be considered part of this permit. Prior to any change in the operation which may result in an increase in allowable emissions exceeding those specified in 326 IAC 2-1-1 (Construction and Operating Permit Requirements), the change must be approved by the Office of Air Management ~~(OAM)~~ Quality (OAQ).**
- ~~(a)~~ (b) **The Permittee shall comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC13-17) and the rules promulgated thereunder.**

Furthermore, all instances of "Office of Air Management" in the permit conditions have been amended to read "Office of Air Quality" and the permit page numbers have been renumbered as Pages 1 through 31.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the original 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 Allen R. Davidson at (800) 451-6027, press 0 and ask for extension 3-5693, or dial (317) 233-5693.

Sincerely,

Original signed by Paul Dubenetzky

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments
ARD

cc: File - Vanderburgh County
U.S. EPA, Region V
Vanderburgh County Health Department
Evansville Environmental Protection Agency
IDEM - Southwest Regional Office
Air Compliance Section Inspector - Scott Anslinger
Compliance Data Section - Karen Nowak
Administrative and Development - Janet Mobley
Technical Support and Modeling - Michele Boner

**FEDERALLY ENFORCEABLE STATE
OPERATING PERMIT (FESOP)
OFFICE OF AIR QUALITY**

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 1-800-451-6027

**Ferro Corporation, Filled and Reinforced Plastics Division
5001 O'Hara Drive
Evansville, Indiana 47711**

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 and contains the conditions and provisions specified in 326 IAC 2-8 and 40 CFR Part 70.6 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments) and IC 13-15 and IC 13-17 (prior to July 1, 1996, IC 13-1-1-4 and IC 13-7-10).

Operation Permit No.: F163-5612-00120	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date: December 11, 1996
1 st Minor Permit Revision 163-8206-00120	Issuance Date: August 3, 1997
1 st Significant Permit Revision 163-9562-00120	Issuance Date: August 24, 1998
2 nd Significant Permit Revision 163-10422-00120	Issuance Date: March 11, 1999
3 rd Significant Permit Revision 163-11860-00120	Issuance Date: May 30, 2000
1 st Administrative Amendment 163-12367-00120	Issuance Date: August 7, 2000
2 nd Administrative Amendment 163-14917-00120	(pages were renumbered as 1 through 31) Pages Amended: 2, 3, 22, 24, 26
Original signed by Paul Dubenetzky Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: October 23, 2001

TABLE OF CONTENTS

SECTION A	SOURCE SUMMARY	4
A.1	General Information	
A.2	Emission Units and Pollution Control Summary	
A.3	Insignificant Activities	
A.4	FESOP Applicability [326 IAC 2-8-2]	
SECTION B	GENERAL CONDITIONS	6
B.1	General Requirements [IC 13-15] [IC 13-17] (Prior to July 1, 1996: IC 13-7 and IC 13-1-1)	
B.2	Definitions [326 IAC 2-8-1]	
B.3	Permit Term [326 IAC 2-8-4(2)]	
B.4	Enforceability [326 IAC 2-8-6]	
B.5	Termination of Right to Operate [326 IAC 2-8-9]	
B.6	Severability [326 IAC 2-8-4(4)]	
B.7	Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]	
B.8	Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]	
B.9	Compliance Order Issuance [326 IAC 2-8-5(b)]	
B.10	Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]	
B.11	Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)]	
B.12	Annual Compliance Certification [326 IAC 2-8-5(a)(1)]	
B.13	Preventive Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]	
B.14	Emergency Provision [326 IAC 2-8-12]	
B.15	Deviations from Permit Requirements and/or Conditions [326 IAC 2-8-4(3)(C)(ii)]	
B.16	Permit Modification, Reopening, Revocation and Reissuance, or Termination	
B.17	Permit Renewal [326 IAC 2-8-3(h)]	
B.18	Administrative Permit Amendment [326 IAC 2-8-10]	
B.19	Minor Permit Modification [326 IAC 2-8-11(a)] [326 IAC 2-8-11(b)(1) and (2)]	
B.20	Significant Permit Modification [326 IAC 2-8-11(d)]	
B.21	Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]	
B.22	Operational Flexibility [326 IAC 2-8-15]	
B.23	Construction Permit Requirement [326 IAC 2-1]	
B.24	Inspection and Entry [326 IAC 2-8-5(a)(2)]	
B.25	Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]	
SECTION C	SOURCE OPERATION CONDITIONS	17
	Emissions Limitations [326 IAC 2-8-4(1)]	
C.1	Overall Source Limit (326 IAC 2-8).	
C.2	Opacity	
C.3	Open Burning	
C.4	Fugitive Dust Emissions	
C.5	Operation of Equipment [326 IAC 2-8-5(a)(4)]	
	Testing [326 IAC 2-8-4(3)]	
C.6	Performance Testing	
	Compliance Monitoring [326 IAC 2-8-5(a)(1)]	
C.7	Compliance Monitoring [326 IAC 2-8-4(3)]	
C.8	Maintenance of Monitoring Equipment [326 IAC 1-6]	
C.9	Monitoring Methods [326 IAC 3]	
C.10	Pressure Gauge Specifications	

Corrective Actions [326 IAC 2-8-4(1)] [326 IAC 2-8-5(1)]

- C.11 Failure to Take Corrective Action
- C.12 Actions Related to Noncompliance Demonstrated by a Stack Test
- C.13 Monitoring Data Availability
- C.14 General Record Keeping Requirements
- C.15 General Reporting Requirements [326 IAC 2-8-4(3)(C)]
- C.16 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]
- C.17 Emission Statement [326 IAC 2-6]

SECTION D.1 FACILITY OPERATION CONDITIONS 23

Construction Conditions

Construction Conditions [326 IAC 2-1-3.2]

- D.1.1 General Construction Conditions
- D.1.2 Effective Date of the Permit [IC13-15-5-3]
- D.1.3 Revocation of Permits [326 IAC 2-1-9(b)]
- D.1.4 Permit Review Rules [326 IAC 2]
- D.1.5 First Time Operation Permit [326 IAC 2-1-4]
- D.1.6 General Operation Conditions
- D.1.7 Transfer of Permit [326 IAC 2-1-6]
- D.1.8 Permit Revocation [326 IAC 2-1-9]
- D.1.9 Availability of Permit [326 IAC 2-1-3(l)]

Operation Conditions

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

- D.1.10 Particulate Matter less than 10 Microns [326 IAC 2-8][326 IAC 2-2]
- D.1.11 Particulate Matter (PM)
- D.1.12 Volatile Organic Compounds (VOC)
- D.1.13 New Sources Toxics Control (HAPs)

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

- D.1.14 Pressure Drop Readings
- D.1.15 Visible Emissions Notations

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

- D.1.16 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]
- D.1.17 Preventive Maintenance Plan
- D.1.18 Record Keeping Requirements

Certification 28
Deviation Occurrence Report (For Control Equipment Monitoring Only) 29
Deviation Occurrence Report 30
Semi-Annual Compliance Monitoring Report 31

SECTION A SOURCE SUMMARY

A.1 General Information

The Permittee owns and operates a plant that custom compounds purchased resins.

Responsible Official: Stephen Ketcham
Source Address: 5001 O'Hara Drive, Evansville, Indiana 47711
Mailing Address: 5001 O'Hara Drive, Evansville, Indiana 47711
SIC Code: 3087
County Location: Vanderburgh
County Status: Attainment for all criteria pollutants.
Source Status: Synthetic Minor Source, FESOP Program

A.2 Emission Units and Pollution Control Summary

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

- (1) Building 1, which is capable of processing 27,697 pounds of raw materials per hour (lb/hr). This building consists of the following:
 - (a) Raw materials handling; which includes two (2) rail unloading systems, which are controlled by baghouses EX 3 and EX 4;
 - (b) Eight (8) blenders C04, C06, C15, C16, C18, C31, C32, and C51. These blenders are capable of blending 27,697 pounds of raw materials per hour. All blenders are controlled by baghouse EX 1;
 - (c) Eight (8) extruders C04, C06, C15, C16, C18, C31, C32, and C51. These extruders are capable of extruding 27,697 pounds of raw materials per hour. These extruders are controlled by baghouse EX 2; and
 - (d) One (1) regrinder.
- (2) Building 2, which is capable of processing 17,344 pounds of raw materials per hour (lb/hr). This building consists of the following:
 - (a) Five (5) blenders C22, C23, C24, C25, and C45. These blenders are capable of blending 17,344 pounds of raw materials per hour. The PM emissions from the blending is controlled by baghouse EX30;
 - (b) Five (5) extruders C22, C23, C24, C25, and C45. These extruders are capable of extruding 17,344 pounds of raw materials per hour.

Each extrusion line consists of a dedicated blender, material handling, extruder and pelletizing. The source utilizes different types of plastic in the process such as: Polyethylenes, Polypropylenes, ABS, EVA, Nylons, and Polystyrenes.

A.3 Insignificant Activities

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

Other activities or categories where emissions are equal to or less than 5 pounds of PM per hour or 25 pounds per day:

- (a) These activities include thirty four (34) pellets silos, eight (8) weigh hoppers, pellet conveyor elevators, pellet conveyor augers and cooling towers.
- (b) Building 5, which is capable of processing 1,345 pounds of raw materials per hour (lb/hr). This building consists of the following:

- (a) Two (2) blenders C03, and C20. These blenders are capable of blending 1,345 pounds of raw materials per hour;
- (b) Two (2) extruders C03, and C20. These extruders are capable of extruding 1,345 pounds of raw materials per hour.

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 Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

- B.1 General Requirements [IC 13-15] [IC 13-17] (Prior to July 1, 1996: IC 13-7 and IC 13-1-1)
The permittee shall comply with the provisions of IC 13-15 (Permits Generally), IC 13-17 (Air Pollution Control) and the rules promulgated thereunder.
- B.2 Definitions [326 IAC 2-8-1]
Terms in this permit shall have the meaning assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11 (prior to July 1, 1996, IC 13-7-2, IC 13-1-1-2), 326 IAC 1-2, and 326 IAC 2-7 shall prevail.
- B.3 Permit Term [326 IAC 2-8-4(2)]
This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-5-5-3 (prior to July 1, 1996, IC 13-7-10-2.5), of the permit.
- B.4 Enforceability [326 IAC 2-8-6]
(a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, and Evansville Environmental Protection Agency (EEPA).

(b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.
- B.5 Termination of Right to Operate [326 IAC 2-8-9]
The expiration of this permit terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-7.
- B.6 Severability [326 IAC 2-8-4(4)]
(a) The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

(b) Indiana 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.
- B.7 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.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]
(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management,
Permits Branch, Office of Air Quality,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015, and

Evansville EPA
101 N.W. Martin Luther King, Jr. Boulevard
Evansville, Indiana 47708-9998

- (b) The Permittee shall also provide additional information as requested by IDEM, OAQ, and EEPA to determine the compliance status of the source in accordance with 326 IAC 2-8-5(a).
- (c) The Permittee shall furnish to IDEM, OAQ, and EEPA within a reasonable time, any information that the IDEM, OAQ and EEPA 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.
- (d) Upon written request, the Permittee shall also furnish to IDEM, OAQ, and EEPA copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records directly to both the U.S. EPA and IDEM, OAQ, and EEPA along with a claim of confidentiality.

Such confidentiality claims shall meet the requirements of 40 CFR Part 2, Subpart B (when submitting to U.S. EPA) and 326 IAC 17 (when submitting to IDEM, OAQ, and EEPA).

B.9 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.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

- (1) enforcement action;
- (2) permit termination, revocation and reissuance or modification; and
- (3) denial of a permit renewal application.

(b) 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.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)]

Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

A responsible official is defined at 326 IAC 2-7-1(33).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually certify that the source has complied with the terms and conditions contained in this permit, including emission limitations, standards, and work practices. The certification shall be submitted July 1 to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015, and

Evansville EPA
101 N.W. Martin Luther King, Jr. Boulevard
Evansville, Indiana 47708-9998

and

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

- (b) This annual compliance certification report required by this permit shall be timely if:
- (1) Delivered by U.S. mail and postmarked on or before the date it is due; or
 - (2) Delivered by any other method if it is received and stamped by IDEM, OAQ, and EEPA on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The identification of each term and 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; and
 - (5) Such other facts as IDEM, OAQ, may require to determine the compliance status of the source.

B.13 Preventive Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]

- (a) The Permittee shall prepare, maintain and implement operation and Preventive Maintenance Plans as necessary including the following information on each:
- (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;
 - (3) Corrective actions that will be implemented in the event an inspection indicates an out of specification situation;
 - (4) A time schedule for taking such corrective actions including a schedule for devising additional corrective actions for situations that may not have been predicted; and
 - (5) Identification and quantification of the replacement parts which will be maintained in inventory for quick replacement.
- (b) Preventive Maintenance Plans shall be submitted to IDEM, OAQ, and EEPA upon request and shall be subject to review and approval by IDEM, OAQ, and EEPA.

B.14 Emergency Provision [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 as follows:
- (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 describes 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 of this permit;
 - (4) The Permittee notified IDEM, OAQ, and EEPA within four (4) daytime business hours after the beginning of the emergency occurrence by telephone or facsimile;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality) or,
Telephone No.: 317-233-5674
Facsimile No.: 317-233-5967

Telephone No.: 812-426-5597 (Evansville EPA)
Facsimile No.: 812-426-5651

- (5) The Permittee submitted written notice or by facsimile of the emergency to:

Indiana Department of Environmental Management,
Compliance Branch, Office of Air Quality,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015, and

Evansville EPA
101 N.W. Martin Luther King, Jr. Boulevard
Evansville, Indiana 47708-9998

within two (2) working days of the time when emission limitations were exceeded due to the emergency. The notice shall fulfill 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 shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33).

- (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 any emergency or upset provision contained in 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
 - (e) IDEM, OAQ, and EEPA may require that the preventive maintenance plan required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
 - (f) Failure to notify IDEM, OAQ, and EEPA by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency 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 clause (B) above.

- B.15 Deviations from Permit Requirements and/or Conditions [326 IAC 2-8-4(3)(C)(ii)]
Deviations from requirements, (for emergencies see Condition B.14 - Emergency Provision) the probable cause of such deviations, and any corrective actions or preventive measures taken shall be reported to:

Indiana Department of Environmental Management,
Compliance Branch, Office of Air Quality,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015, and

Evansville EPA
101 N.W. Martin Luther King, Jr. Boulevard
Evansville, Indiana 47708-9998

within ten (10) calendar days from the date of the discovery of the deviation.

Written notification shall be submitted on the attached Deviation Occurrence Reporting Forms.

- B.16 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)]
[326 IAC 2-8-8(b)] [326 IAC 2-8-8(c)]
- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a 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)]
 - (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 (prior to July 1, 1996, in IC 13-7-10-5) or if the commissioner determines any of the following:
 - (1) That it 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, and EEPA 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 practical. [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, and EEPA at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, and EEPA may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 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 EEPA and shall include, at minimum, 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(20).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management,
Permits Branch, Office of Air Quality,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015, and

Evansville EPA
101 N.W. Martin Luther King, Jr. Boulevard
Evansville, Indiana 47708-9998

- (b) Timely Submittal of Permit Renewal [326 IAC 2-5-3]
 - (1) The Permittee has a duty to submit a timely and complete permit renewal application. A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) Delivered by U. S. mail and postmarked on or before the date it is due; or
 - (C) Delivered by any other method if it received and stamped by IDEM, OAQ, on or before the date it is due.

- (2) If IDEM, OAQ and EEPA 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.
 - (c) **Right to Operate After Application of Renewal** [326 IAC 2-8-9]
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 and EEPA 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 in writing by IDEM, OAQ, any additional information identified as needed to process the application.
- B.18 Administrative Permit Amendment** [326 IAC 2-8-10]
- (a) An administrative permit amendment is a FESOP revision that makes changes of the type specified under 326 IAC 2-8-10(a).
 - (b) An administrative permit amendment may be made by IDEM, OAQ, and EEPA consistent with the procedures specified under 326 IAC 2-8-10(b).
 - (c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- B.19 Minor Permit Modification** [326 IAC 2-8-11(a)] [326 IAC 2-8-11(b)(1) and (2)]
- (a) A permit modification is any revision to this permit that cannot be accomplished as an administrative permit amendment under 326 IAC 2-8-10.
 - (b) Minor permit modification procedures shall follow the procedures specified under 326 IAC 2-8-11(b)(1)(A) through (F).
 - (c) An application requesting the use of minor modification procedures shall meet the requirements of 326 IAC 2-8-3(c) and shall include the information required in 326 IAC 2-8-11(b)(3)(A) through (D).
 - (d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application unless the change is subject to the construction permit requirements of 326 IAC 2-1, 326 IAC 2-2, or 326 IAC 2-3. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM, OAQ takes any of the actions specified in 326 IAC 2-8-11(b)(5), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify. If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-8-11(b)(6)]
- B.20 Significant Permit Modification** [326 IAC 2-8-11(d)]
- (a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.

- (b) Any significant change in existing monitoring permit terms or conditions and every relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.
- (c) Nothing in 326 IAC 2-8-11(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-8 that would render existing permit compliance terms and conditions irrelevant.
- (d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-8, including those for application, public participation, and review by the U.S. EPA, as they apply to permit issuance and renewal.

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(2)]
Notwithstanding 326 IAC 2-8-11(b)(1)(D)(I) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable FESOP's, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable implementation plan (SIP) or in applicable requirements promulgated by the U.S. EPA.

B.22 Operational Flexibility [326 IAC 2-8-15]

(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 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) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- (3) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015,

Evansville EPA
101 N.W. Martin Luther King, Jr. Boulevard
Evansville, Indiana 47708-9998

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

- (4) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review. Such records shall consist of all information required to be submitted to IDEM, OAQ, and EEPA in the notices specified in 326 IAC 2-8-15(b)(1), (c)(1), and (d).

(b) For each such change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33).

- (c) Emission trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints in section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) 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) and subject to the constraints in section (a) of this condition and those in 326 IAC 2-8-15(d)

B.23 Construction Permit Requirement [326 IAC 2-1]

Prior to any change in the operation which may result in an increase in allowable emissions exceeding those specified in 326 IAC 2-1-1 (Construction and Operating Permit Requirements), the change must be approved by the Office of Air Quality (OAQ, and EEPA)

B.24 Inspection and Entry [326 IAC 2-8-5(a)(2)]

Upon presentation of IDEM and EEPA identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAQ, EEPA, and 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 are kept under the conditions of this permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of demonstrating compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of demonstrating compliance with this permit or applicable requirements.
[326 IAC 2-8-5(a)(4)]

B.25 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, and EEPA consistent with the fee schedule established in 326 IAC 2-8-16.
- (b) Failure to pay may result in administrative enforcement action, revocation of this permit, referral to the Office of Attorney General for collection, or other appropriate measures.
- (c) The Permittee shall pay the annual fee within thirty (30) calendar days of receipt of a billing by IDEM, OAQ, and EEPA or in a time period that is consistent with the payment schedule issued by IDEM, OAQ, and EEPA.
- (d) If the Permittee does not receive a bill from IDEM, OAQ, and EEPA thirty (30) calendar days before due date, the Permittee shall call the following telephone numbers: 1-800-451-6027 or 317-233-0179 (ask for OAQ, Data Support Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations [326 IAC 2-8-4(1)]

- C.1 Overall Source Limit (326 IAC 2-8).
Pursuant to 326 IAC 2-8, emissions of any regulated pollutant from the entire source shall not exceed 99 tons per 365 days. Emissions shall include those from all emission points at the source including those that are insignificant as defined in 326 IAC 2-7-1 (20). The source shall be allowed to add insignificant activities not already listed in this permit, as long as the total emissions from the source do not exceed the above specified limits. In the event that any condition or combination of conditions in Section D of this permit differs from the above, the most restrictive limit will prevail.
- C.2 Opacity
Pursuant to 326 IAC 5-1-2 (Visible Emission Limitations) except as provided in 326 IAC 5-1-3 (Temporary Exemptions), the visible emissions shall meet the following:
- (a) Visible emissions shall not exceed an average of 30% opacity in 24 consecutive readings.
 - (b) Visible emissions shall not exceed 60% opacity for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period.
- C.3 Open Burning
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. This is not a federally enforceable condition.
- C.4 Fugitive Dust Emissions
The Permittee shall be in violation of 326 IAC 6-4 if any of the criteria specified in 326 IAC 6-4-2 (1) through (4) are violated. This is not a federally enforceable condition.
- C.5 Operation of Equipment [326 IAC 2-8-5(a)(4)]
- (a) All equipment that potentially might emit pollutants into the ambient air shall be properly operated and maintained.
 - (b) Unless otherwise stated in this permit, all air pollution control equipment listed in this permit shall be operated at all times that the emission unit(s) vented to the control equipment is in operation.
 - (c) The permittee shall perform all necessary maintenance and make all necessary attempts to keep all air pollution control equipment in proper operating condition at all times.

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

C.6 Performance Testing

Compliance testing shall be conducted for PM and PM10 from baghouses EX1, EX2, EX3, and EX4. the Permittee shall perform the tests specified in this permit to demonstrate compliance with the applicable rule or permit condition. All testing shall be performed according to the provisions of 326 IAC 3-2.1 (Source Sampling Procedures) and by methods in the approved test protocol. The test protocol shall be submitted to:

Indiana Department of Environmental Management,
Compliance Data Section, Office of Air Quality,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015, and

Evansville EPA
101 N.W. Martin Luther King, Jr. Boulevard
Evansville, Indiana 47708-9998

at least thirty-five (35) days before the intended test date.[326 IAC 3-2.1-2

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

C.7 Compliance Monitoring [326 IAC 2-8-4(3)]

Compliance with applicable requirements shall be documented in accordance with the provisions of 326 IAC 2-8-4(3). The Permittee shall be responsible for installing any necessary equipment and initiating any additional monitoring no less than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

Indiana Department of Environmental Management,
Compliance Data Section, Office of Air Quality,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015, and

Evansville EPA
101 N.W. Martin Luther King, Jr. Boulevard
Evansville, Indiana 47708-9998

in writing, with full justification of the reasons for inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.

The notification that shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33).

C.8 Maintenance of Monitoring Equipment [326 IAC 1-6]

The Permittee shall perform all necessary maintenance and make all necessary attempts to keep all required monitoring equipment in proper operating condition at all times. In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. Preventive maintenance plans of the monitors shall be implemented. In addition prompt correction, as indicated, shall be initiated within the time frames specified, whenever the parameters monitored fall outside of the indicated values.

C.9 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed, whenever applicable according to the provisions of 326 IAC 3, or 40 CFR Part 60, Appendix A, as appropriate, unless some other method is specified in this permit.

C.10 Pressure Gauge Specifications

Whenever a condition in this permit requires the taking of pressure drop across any part of the unit or its control device the gauge employed shall have a scale such that the expected normal reading shall be no less than 20 percent of full scale and be accurate within $\pm 2\%$ of full scale reading. The instrument shall be quality assured and maintained as specified by the vendor.

Corrective Actions [326 IAC 2-8-4(1)] [326 IAC 2-8-5(1)]

C.11 Failure to Take Corrective Action

For each unit for which parametric monitoring is required, appropriate corrective actions as described in the Preventive Maintenance Plan shall be taken when indicated by monitoring information. Failure to take corrective action following an excursion of a surrogate monitoring parameter within the indicated time may constitute a violation of the permit unless the corrective action set forth in the Plan would be unreasonable.

After investigating the reason for the excursion, the permittee may be excused from taking further corrective action for any of the following reasons:

- (a) Providing that prompt action was taken to correct the monitoring equipment, that the monitoring equipment malfunctioned, giving a false reading; or
- (b) The permittee has determined that the parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied; or
- (c) An automatic measurement was taken when the process was not operating; or
- (d) The permittee determines that the process has already returned to operating within "normal" parameters and no corrective action is required.

Records shall be kept of all instances in which the action values were not met and of all corrective actions taken. In the event of an "emergency" as defined in 326 IAC 2-7-16 the provisions of that rule requiring prompt corrective action to mitigate emissions shall prevail.

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test

Whenever the results of the stack test performed in conformance with Condition C.6 - Performance Testing, of this permit exceed the level specified in any condition of this permit, appropriate corrective actions shall be submitted to IDEM-OAQ and EEPa within 30 (thirty) days of receipt of the test results. These actions shall be implemented immediately unless notified by OAQ that they are not acceptable. The Permittee shall minimize emissions while the corrective actions are being implemented.

Should IDEM, OAQ and EEPa request a second test to demonstrate compliance it shall be performed within 120 days of the request. Failure of the second test to demonstrate compliance may be grounds for immediate revocation of the permit to operate the affected facility.

C.13 Monitoring Data Availability

All observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions. Records shall be kept of the times that the equipment is not operating. If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality. If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded. At its discretion, IDEM and EEPa may excuse such failure providing adequate justification is documented and such failures do not exceed 5% of the operating time in any quarter. Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason.

C.14 General Record Keeping Requirements

- (a) Records of all required monitoring data and support information 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 kept at the source location and available within one hour upon verbal request of an IDEM, OAQ and EEPa representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two years providing they are made available within thirty (30) days after written request.
- (b) Records of required monitoring information shall include:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include:
 - (1) Copies of all reports required by this permit.;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;

- (3) All calibration and maintenance records;
- (4) All preventive maintenance and corrective actions that were implemented. Such records shall briefly describe what was done and indicate who did it;
- (5) Relevant work purchases orders;
- (6) Quality assurance and quality control procedures;
- (7) Operator's standard operating procedures;
- (8) Manufacturer's specifications or their equivalent; and
- (9) Equipment "troubleshooting" guidance.

- C.15 General Reporting Requirements [326 IAC 2-8-4(3)(C)] (a) To affirm that the source has met all the requirements stated in this permit the source shall submit a semi-annual Compliance Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015, and
- Evansville EPA
101 N.W. Martin Luther King Jr. Boulevard
Evansville, Indiana 47708-9998
- (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) Unless otherwise specified in this permit, any report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or

- (2) An emergency as defined in 326 IAC 2-7-1(12); or
- (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
- (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.

- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.16 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.17 Emission Statement [326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4.
- (b) The annual emission statement shall cover the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Evansville EPA
101 N.W. Martin Luther King Jr. Boulevard
Evansville, Indiana 47708-9998

The emission statement does require certification by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The annual emission statement 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 on or before the date it is due.

SECTION D.1 FACILITY OPERATION CONDITIONS

- (1) Building 1, which is capable of processing 27,697 pounds of raw materials per hour (lb/hr). This building consists of the following:
- (a) Raw materials handling; which includes two (2) rail unloading systems, which are controlled by baghouses EX 3 and EX 4;
 - (b) Eight (8) blenders C04, C06, C15, C16, C18, C31, C32, and C51. These blenders are capable of blending 27,697 pounds of raw materials per hour. All blenders are controlled by baghouse EX 1;
 - (c) Eight (8) extruders C04, C06, C15, C16, C18, C31, C32, and C51. These extruders are capable of extruding 27,697 pounds of raw materials per hour. These extruders are controlled by baghouse EX 2; and
 - (d) One (1) regrinder.
- (2) Building 2, which is capable of processing 17,344 pounds of raw materials per hour (lb/hr). This building consists of the following:
- (a) Five (5) blenders C22, C23, C24, C25, and C45. These blenders are capable of blending 17,344 pounds of raw materials per hour. The PM emissions from the blending is controlled by baghouse EX30;
 - (b) Five (5) extruders C22, C23, C24, C25, and C45. These extruders are capable of extruding 17,344 pounds of raw materials per hour.

Each extrusion line consists of a dedicated blender, material handling, extruder and pelletizing. The source utilizes different types of plastic in the process such as: Polyethylenes, Polypropylenes, ABS, EVA, Nylons, and Polystyrenes.

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

Construction Conditions [326 IAC 2-1-3.2]

General Construction Conditions

D.1.1 General Construction Conditions

- (a) The data and information supplied with the application shall be considered part of this permit. Prior to any proposed change in construction which may affect allowable emissions, the change must be approved by the Office of Air Quality (OAQ).
- (b) This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

D.1.2 Effective Date of the Permit [IC13-15-5-3]

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

D.1.3 Revocation of Permits [326 IAC 2-1-9(b)]

Pursuant to 326 IAC 2-1-9(b)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

D.1.4 Permit Review Rules [326 IAC 2]

Notwithstanding Construction Condition No.D.1.5, all requirements and conditions of this construction permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).

D.1.5 First Time Operation Permit [326 IAC 2-1-4]

This document shall also become a first-time operation permit pursuant to 326 IAC 2-1-4 (Operating Permits) when, prior to start of operation, the following requirements are met:

- (a) The attached affidavit of construction shall be submitted to the Office of Air Quality (OAQ), Permit Administration & Development Section, verifying that the facilities were constructed as proposed in the application. The facilities covered in the Construction Permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.
- (b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.
- (c) Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.
- (d) The operation permit will be subject to annual operating permit fees pursuant to 326 IAC 2-7-19 (Fees).

Operation Conditions

D.1.6 General Operation Conditions

- (a) The data and information supplied in the application shall be considered part of this permit. Prior to any change in the operation which may result in an increase in allowable emissions exceeding those specified in 326 IAC 2-1-1 (Construction and Operating Permit Requirements), the change must be approved by the Office of Air Quality (OAQ).
- (b) The Permittee shall comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC13-17) and the rules promulgated thereunder.

D.1.7 Transfer of Permit [326 IAC 2-1-6]

Pursuant to 326 IAC 2-1-6 (Transfer of Permits):

- (a) In the event that ownership of this custom compounder of purchased resins is changed, the Permittee shall notify OAQ, Permit Branch, within thirty (30) days of the change. Notification shall include the date or proposed date of said change.
- (b) The written notification shall be sufficient to transfer the permit from the current owner to the new owner.
- (c) The OAQ shall reserve the right to issue a new permit.

D.1.8 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to construct and operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.

- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit
- (d) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of 326 IAC 2-1 (Permit Review Rules).

D.1.9 Availability of Permit [326 IAC 2-1-3(I)]

Pursuant to 326 IAC 2-1-3(I), the Permittee shall maintain the applicable permit on the premises of the source and shall make this permit available for inspection by the IDEM, or other public official having jurisdiction.

Operation Conditions

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

D.1.10 Particulate Matter less than 10 Microns [326 IAC 2-8][326 IAC 2-2]

Pursuant to 326 IAC 2-8 (FESOP) and 326 IAC 2-2 (Prevention of Significant Deterioration):

- (a) The baghouse identified as EX1 controlling the blenders in Building 1 shall be in operation at all times the emission units vented to the baghouse are in operation and the PM10 emissions from the blenders in Buildings 1 shall not exceed 5.18 pounds per hour.
- (b) The baghouse identified as EX2 controlling the extruders in Building 1 shall be in operation at all times the emission units vented to the baghouse are in operation and the PM10 emissions from the extruders in Building 1 shall not exceed 5.18 pounds per hour.
- (c) The baghouses identified as EX3 and 4 controlling the Raw materials handling; which includes two (2) rail unloading systems in Building 1 shall be in operation at all times the emission units vented to the baghouse are in operation and the PM10 emissions from the Raw materials handling; which includes two (2) rail unloading systems in Building 1 shall each not exceed 1.3 pounds per hour.
- (d) The baghouse identified as EX30 controlling the blenders in Building 2 shall be in operation at all times the emission units vented to the baghouse are in operation and the PM10 emissions from the blenders in Building 2 shall not exceed 8.8 pounds per hour.

These limits are necessary to limit the total source wide PM10 emissions to 8.25 tons per month. Compliance with this condition will render the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 326 IAC 2-7 (Part 70 Permits), not applicable.

D.1.11 Particulate Matter (PM)

Pursuant to 326 IAC 6-3 the PM emissions from the following facilities shall be limited as follows:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

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

Facilities	Baghouse ID	PM Allowable Emissions (lb/hr)
Building 1: Blenders C04, C06, C15, C16, C18, C31, C32, and C51	EX1	23.8

Building 1: Extruders C04, C06, C15, C16, C18, C31, C32, and C51	EX2	23.7
Building 1: Rail Unloading	EX3	12.4
Building 1: Rail Unloading	EX4	12.4
Building 2: Raw Material Handling-Truck Unloading; Blenders C22, C23, C24, C25 and C45; Extruders C22, C23, C24, C25 and C45	EX30	17.33
TOTAL		89.63

D.1.12 Volatile Organic Compounds (VOC)

Any change or modification which may increase the potential volatile organic compound emissions to 25 tons per year or more from each extruder line in this permit must be approved by the Office of Air Quality (OAQ) and be subject to 326 IAC 8-1-6 (General Reduction Requirements) before such change may occur.

D.1.13 New Sources Toxics Control (HAPs)

Any change or modification which may increase the potential emissions of any single hazardous air pollutant or any combination of hazardous air pollutants to 10 or 25 tons per year or more, respectively, from each extruder line in this permit must be approved by the Office of Air Quality (OAQ) and be subject to 326 IAC 2-4.1 (New Sources Toxics Control) before such change may occur.

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

D.1.14 Pressure Drop Readings

The Permittee shall take readings of the total static pressure drop ranges across all baghouses, at least once per day when any of the blenders and extruders in Buildings 1 and 2 are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop range across the baghouses EX1, EX2, and EX30 shall be maintained at 0.8 to 6.0 inches of water or ranges established during the most recent stack test. Baghouses EX3, and EX4, shall be maintained at a pressure drop range of 0.2 to 4.0 inches of water across the baghouses, or ranges established during the most recent stack test. The Preventive Maintenance Plan shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of this level for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 Pressure Gauge Specifications, be subject to approval by IDEM, OAQ, and EEPA and shall be calibrated at least once every six (6) months.

D.1.15 Visible Emissions Notations

Weekly visible emission notations of the truck unloading, blenders, extruding and regrinding stack exhaust in Buildings 1 and 2 shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, 80% of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for the pollution control devices or baghouses shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

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

D.1.16 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

Pursuant to the requirements of 326 IAC 2-1-4, compliance testing shall be conducted from baghouses EX1, EX2, EX3, and EX4 to establish each pressure drop range that corresponds to the PM and PM10 limit in D.1.10. This stack tests shall be performed within twenty-four months after the original FESOP permit issue date, December 1, 1998. These tests shall be performed according to 326 IAC 3-2.1 (Source Sampling Procedures) using the methods specified in the rule or as approved by the Commissioner. The Office of Air Quality (OAQ and EEPA) shall be notified of the actual test date at least two (2) weeks prior to the date, a test protocol shall be submitted to the OAQ, Compliance Data Section, and EEPA 35 days in advance of the test, and all test reports must be received by the OAQ within 45 days of completion of the testing, pursuant to that rule.

D.1.17 Preventive Maintenance Plan

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for these facilities.

D.1.18 Record Keeping Requirements

- (a) To document compliance with Condition D.1.15, the Permittee shall maintain records of weekly visible emission notations of the materials handling, blending and extruding stack exhaust in Buildings 1 and 2.
- (b) To document compliance with Condition D.1.14, the Permittee shall maintain the following:
 - (1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:
 - (A) Inlet and outlet differential static pressure; and
 - (B) Cleaning cycle: frequency and differential pressure.
 - (2) Documentation of all response steps implemented, per event.
 - (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
 - (4) Quality Assurance/Quality Control (QA/QC) procedures.
 - (5) Operator standard operating procedures (SOP).
 - (6) Manufacturer's specifications or its equivalent.
 - (7) Equipment "troubleshooting" contingency plan.
 - (8) Documentation of the dates vents are redirected.

State Form 47738 (5-96)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Evansville Environmental Protection Agency

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

Source Name: Ferro Corporation, Filled and Reinforced Division
Source Address: 5001 O'Hara Drive, Evansville, Indiana 47711
FESOP No.: F163-5612-00120

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:

- 9 Deviation Occurrence Reporting Form (For Control Equipment Monitoring)
- 9 Deviation Occurrence Reporting Form (For Material Usage, Quality, Etc.)
- 9 Relocation Notification
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Other (specify) _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

State Form 47739 (5-96)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION**

Evansville Environmental Protection Agency

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
 DEVIATION OCCURRENCE REPORT
 (For Control Equipment Monitoring Only)**

Source Name: Ferro Corporation, Filled and Reinforced Division
 Source Address: 5001 O'Hara Drive, Evansville, Indiana 47711
 FESOP No.: F163-5612-00120

A separate copy of this report must be submitted for **each** monitoring device on all control equipment listed in this permit. Attach a signed certification to complete this report.

Stack/Vent ID:	
Control Equipment: (ex: thermal oxidizer, scrubber, baghouses)	
Type of Parameter Monitored: (ex: temperature, pressure drop, efficiency)	
<input type="checkbox"/> Continuously	<input type="checkbox"/> Periodically, at a frequency of:
Parameter Operating Restrictions/Range: (ex: 1,400°F, 2-4 psi pressure drop)	
Report Covers From: (date: month/day/yr)	To:
<input type="checkbox"/> No Deviations from the Parameter Restriction/Range Occurred During the Monitoring Period. Complete Records Maintained at the Facility Verify Compliance with this Condition.	
<input type="checkbox"/> Summary of Deviations from the Parameter Restriction/Range During the Monitoring Period are Identified Below. Complete Records Maintained at the Facility.	

	For Parameter Recorded Continuously	For Parameter Recorded Periodically
Total Unit Operating Time		
Total Time of Deviations (Identify All Deviations)		
Percent of Time Indicating Deviations ($\frac{2}{1} \times 100$)		

Date of Deviation	Start/Stop Time of Deviation (Continuous Monitoring Only)	Actual Value Recorded	Reason for Deviation & Corrective Action Taken

State Form 47741 (5-96)

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Evansville Environmental Protection Agency

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

Source Name: Ferro Corporation, Filled and Reinforced Division
Source Address: 5001 O'Hara Drive, Evansville, Indiana 47711
FESOP No.: F163-5612-00120

A separate copy of this report must be submitted for **each** material type, quantity usage and operation limitation (except control equipment monitoring) listed in this permit .
Attach a signed certification to complete this report.

Stack/Vent ID:
Equipment/Operation:
Parameter Subject to Material Type, Quantity Usage or Operation Limitations Specified in the Permit: (ex: 2500 lb/day, 300 hours/yr, 5000 gallons/month)
Determination Period for this Parameter: (ex: 365-day rolling sum, fixed monthly rate)
9 Permit Has No Rate Limitations for this Parameter.
Content Restriction for this Parameter: (ex: maximum of 40% VOC in inks, 0.5% sulfur content)
Demonstration Method for this Parameter: (ex: MSDS, Supplier, material sampling & analysis)
9 Permit Has No Content Limitations for this Parameter.
Comments:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

Evansville Environmental Protection Agency

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
SEMI-ANNUAL COMPLIANCE MONITORING REPORT**

Source Name: Ferro Corporation, Filled and Reinforced Division
Source Address: 5001 O'Hara Drive, Evansville, Indiana 47711
FESOP No.: F163-5612-00120

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted semi-annually. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (eg. Permit Condition D.1.10, D.1.12)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.