

**FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP)  
and ENHANCED NEW SOURCE REVIEW  
OFFICE OF AIR MANAGEMENT**

**A.O. Smith / UPPCO  
302 North Sixth Street  
Monticello, Indiana 47960**

(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.

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 and 326 IAC 2-1-3.2, 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.

Operation Permit No.: F181-7394-00036	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM), and presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary electric motor manufacturing operation.

Responsible Official: Art Joseph  
Source Address: 302 North Sixth Street, Monticello, Indiana 47960-1839  
Mailing Address: 302 North Sixth Street, Monticello, Indiana 47960-1839  
SIC Code: 3621  
County Location: White  
County Status: Attainment for all criteria pollutants  
Source Status: Federally Enforceable State Operating Permit (FESOP)  
Minor Source, under PSD or Emission Offset Rules;  
Minor Source, FESOP Program

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

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

- (a) nine (9) aluminum melting furnaces, collectively referred to as unit 17, each with a maximum heat input capacity of 0.4 million British thermal units per hour, with a combined melt capacity of 225.6 pounds per hour of aluminum metal;
- (b) two (2) dip tanks, referred to as unit 22, constructed in 1994, with a maximum capacity of 1.3 gallons of coating per hour, used for varnish coating of electric motor coils and stators, with a carbon adsorption system used for VOC control;
- (c) one (1) degreasing operation, referred to as unit 24, constructed in 1994, using 3400 gallons of 849 solvent per year, for degreasing metal brackets;
- (d) one (1) degreaser, referred to as unit 21, constructed in 1994, using 1650 gallons of Carbo-Sol (trichloroethylene) per year, used for degreasing motor shafts.

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

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

- (1) natural gas-fired combustion units;
- (2) combustion source flame safety purging on startup;
- (3) machining where an aqueous cutting coolant continuously floods the machining interface;
- (4) the following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;
- (5) replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
- (6) paved and unpaved roads and parking lots with public access;
- (7) grinding and machining operations;
- (8) mold release agents using low volatile products;
- (9) spray painting rotors with zinc chromate primer;

- (10) use of rust inhibitor coatings; and
- (11) parts cleaner for maintenance use.

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

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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 Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

**SECTION B GENERAL CONDITIONS**

**B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]**

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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.

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

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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, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

**B.3 Permit Term [326 IAC 2-8-4(2)]**

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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 13-15-5-3.

**B.4 Enforceability [326 IAC 2-8-6]**

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- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM .
- (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] [326 IAC 2-8-3(h)]**

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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.6 Severability [326 IAC 2-8-4(4)]**

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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.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]**

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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)]**

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- (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 Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) The Permittee shall furnish to IDEM, OAM, within a reasonable time, any information that IDEM, OAM, 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.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records to IDEM, OAM, along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, the Permittee shall furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAM 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 constitutes a violation of the Clean Air Act and 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)] [326 IAC 2-8-5(1)]

- (a) 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.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.12 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. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

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

- (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, OAM, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The 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, IDEM, OAM, may require to determine the compliance status of the source.

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

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission units and associated 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) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM, .

B.14 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 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 in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM , 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 No.: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or,  
Telephone No.: 317-233-5674 (ask for Compliance Section)  
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAM , by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

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

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 the certification by the "responsible official" as defined by 326 IAC 2-7-1(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 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM , 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, OAM , by telephone or facsimile of an emergency lasting more than one (1) hour in compliance 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.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:  
  
Indiana Department of Environmental Management  
Compliance Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
  
within ten (10) calendar days from the date of the discovery of the deviation.
- (b) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent.
- (c) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

**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]

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP 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 or if IDEM, OAM 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, OAM, 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, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, 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)]

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM 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).

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
  - (1) 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) 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, OAM, on or before the date it is

due. [326 IAC 2-5-3]

- (2) If IDEM, OAM upon receiving a timely and complete 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.

- (c) Right to Operate After Application for 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, OAM 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, OAM, 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, OAM, 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 modification of this permit shall follow the procedures specified under 326 IAC 2-8-11(b), except as provided by 326 IAC 2-8-11(c).
- (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 provided that the change has received any approval required by 326 IAC 2-1. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM, OAM, 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)]**

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- (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, review by affected states and review by 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)]**

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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 permits, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated by U.S. EPA.

**B.22 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-8-15(b)]**

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The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional condition:

For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

**B.23 Operational Flexibility [326 IAC 2-8-15]**

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- (a) The Permittee may make any change or changes at this 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) Any approval required by 326 IAC 2-1 has been obtained;
  - (3) The changes do not result in emissions which exceed the emissions allowable under 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  
Permits Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

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 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, OAM , in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
  - (1) A brief description of the change within the source;
  - (2) The date on which the change will occur;
  - (3) Any change in emissions; and
  - (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(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 of 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). No prior notification of IDEM, OAM or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.24 Construction Permit Requirement [326 IAC 2]**

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997,

modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.25 Inspection and Entry [326 IAC 2-8-5(a)(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM, OAM, 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) 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 assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.  
[326 IAC 2-8-5(a)(4)]

B.26 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-8-10]

Pursuant to 326 IAC 2-1-6 and 2-8-10:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-8-10.
- (c) IDEM, OAM shall reserve the right to issue a new permit.

B.27 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAM within thirty (30) calendar days of receipt of a billing, or in a time period consistent with the fee schedule established in 326 IAC 2-8-16.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) If the Permittee does not receive a bill from IDEM, OAM, thirty (30) calendar days before the due date, the Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

B.28 Enhanced New Source Review [326 IAC 2]

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The requirements of the construction permit rules in 326 IAC 2 are satisfied by this permit for any previously unpermitted facilities and such facilities to be constructed within eighteen (18) months after the date of issuance of this permit, as listed in Sections A.2 and A.3.

## **SECTION C SOURCE OPERATION CONDITIONS**

Entire Source
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### **Emissions Limitations and Standards [326 IAC 2-8-4(1)]**

#### **C.1 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 three hundred sixty-five (365) consecutive day period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);
  - (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 three hundred sixty-five (365) consecutive day 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 three hundred sixty-five (365) consecutive day period.
- (b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), emissions of particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per three hundred sixty-five (365) consecutive day 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 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.2 Opacity [326 IAC 5-1]**

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

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

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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. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

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

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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.5 Fugitive Dust Emissions [326 IAC 6-4]**

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The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

**C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]**

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All air pollution control equipment listed in this permit shall be operated at all times that the emission units vented to the control equipment are in operation, as described in Section D of this permit.

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

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Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material. The requirement that the inspector be accredited is federally enforceable.

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

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

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(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by the IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days before the intended test date.

(b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

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

C.9 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment no more 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 Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

in writing no more than ninety (90) days after receipt of this permit, 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 which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.10 Maintenance of Monitoring Equipment [326 IAC 2-8-4(3)(A)(iii)]

- (a) 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. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.11 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.12 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18-1] [40 CFR 61.140]

- (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 insure 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
  - (3) 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  
Asbestos Section, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory 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) **Indiana Accredited 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 Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

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

**C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]**

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If a regulated substance, subject to 40 CFR 68, is present in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) **Submit:**
- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
  - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements

of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

- (3) A verification to IDEM, OAM, that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, that the Risk Management Plan is being properly implemented.

C.14 Compliance Monitoring Plan - Failure to Take Corrective Action [326 IAC 2-8-4(3)]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
  - (1) This condition;
  - (2) The Compliance Determination Requirements in Section D of this permit;
  - (3) The Compliance Monitoring Requirements in Section D of this permit;
  - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
  - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM, . The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
    - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
    - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
  - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

- (2) The Permittee has determined that the compliance monitoring 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;
  - (3) An automatic measurement was taken when the process was not operating; or
  - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

**C.15 Actions Related to Noncompliance Demonstrated by a Stack Test**

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- (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 take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

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

**C.16 Monitoring Data Availability**

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- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing 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.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) 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.
- (d) 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.

- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)(B)]

- (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 (1) hour upon verbal request of an IDEM, OAM representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two (2) years providing they are made available within thirty (30) days after written request.
- (b) Records of required monitoring information shall include, where applicable:
  - (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, where applicable:
  - (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) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate

who performed the tasks.

- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.18 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 Quarterly 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 Management  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

- (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, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly 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.19 Compliance with 40 CFR 82 and 326 IAC 22-1**

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

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

**SECTION D.1 FACILITY OPERATION CONDITIONS**

nine (9) aluminum melting furnaces, collectively referred to as unit 17, each with a maximum heat input capacity of 0.4 million British thermal units per hour, with a combined melt capacity of 225.6 pounds per hour of aluminum metal

**Emissions Limitations and Standards [ 326 IAC 6-3-2]**

**D.1.1 Particulate Matter (PM) and Particulate Matter less than ten microns (PM10) [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Process Operations) the particulate matter emissions from the aluminum melting operation shall not exceed 0.95 pounds per hour.

This limitation is based on the following equation:

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

$$E = 4.1 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

**Compliance Determination Requirements**

**D.1.2 Testing Requirements [326 IAC 2-8-5(1)]**

Within 180 days after issuance of this permit, the Permittee shall perform PM testing on each of the aluminum melt furnaces (or a representative furnace), using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.1.1. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facilities are in compliance.

**SECTION D.2 FACILITY OPERATION CONDITIONS**

two (2) dip tanks, referred to as unit 22, constructed in 1994, with a maximum capacity of 1.3 gallons of coating per hour, used for varnish coating of electric motor coils and stators, with a carbon adsorption system used for VOC control;

## **Emissions Limitations and Standards [326 IAC 2-8-4(1)] [326 IAC 8-2-9]**

### **D.2.1 Volatile Organic Compounds [326 IAC 8-2-9]**

- (a) When operating the carbon adsorber to achieve the limit for rule 326 IAC 8-2-9, 3.5 pounds of VOC emitted to the atmosphere per gallon of coating less water delivered to the applicator, the thermal oxidizer shall maintain a minimum overall efficiency of 82.36 percent. This efficiency and the use of the carbon adsorber are required by rule 326 IAC 8-1-2(a)(1). Based upon 326 IAC 8-1-2(c) and the overall control efficiency of 82.36 percent, the VOC content of the coating shall not exceed 5.85 pounds per gallon of coating solids delivered to the applicator.

### **D.2.2 Hazardous Air Pollutants**

The hazardous air pollutant emissions shall be limited as follows:

The input of hazardous air pollutants to the varnish coating operation and the usage of cleanup solvent for the varnish coating operation shall be limited to 4.24 tons of any combination of HAPs, including coatings, dilution solvents, and cleaning solvents, per 12 consecutive month period. This limitation is based upon the usage of a carbon adsorber with a minimum overall efficiency of 82.36 percent. Therefore, the requirements of 326 IAC 2-7 (Part 70) do not apply.

## **Compliance Determination Requirements**

### **D.2.3 Testing Requirements [326 IAC 2-8-5(1)]**

Within 180 days after the issuance of this permit, the Permittee shall perform VOC testing using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.2.1. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facility is in compliance.

### **D.2.4 Volatile Organic Compounds (VOC)**

Compliance with the VOC content and usage limitations contained in Condition D.2.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3)(A) and 326 IAC 8-1-2(a)(7) using formulation data supplied by the coating manufacturer. IDEM, OAM reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

### **D.2.5 Carbon Adsorber [326 IAC 2-8-5]**

The carbon adsorber shall operate at a minimum overall efficiency of 82.36 percent at all times that the varnish coating process is in operation. The operation of this control device at this minimum efficiency is necessary in order to ensure compliance with 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), and also to ensure that the total HAPs emissions from the varnish coating operation are limited to 4.24 tons per 12 consecutive month period.

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

**D.2.6 Preventive Maintenance [326 IAC 2-8-4(9)]**

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A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

**D.2.7 Carbon Adsorber [326 IAC 2-8-5]**

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- (a) The Cameron Breakthrough Indicator shall be in operation at all times that the carbon adsorber is in operation. The Cameron Breakthrough Indicator shall be checked for evidence of breakthrough at least once every 30 days. If breakthrough is indicated, the carbon units in stage 2 shall be changed.
- (b) The carbon adsorption unit and the fiberglass filters (stage 1 or pre-filters) shall be checked every 90 days for proper mechanical/electrical operations and filters shall be changed as needed.
- (c) The carbon units in stage 2 and the fiberglass filters (pre-filters) in stage 1 shall be changed at least every 185 days. Carbon replacements must be monitored and recorded on a monthly basis. This information must be reported to OAM on a quarterly basis.

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

**D.2.8 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC emission limits established in Condition D.2.1.
  - (1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
  - (2) A log of the dates of use;
  - (3) The volume weighted VOC content of the coatings used for each month;
  - (4) The cleanup solvent usage for each month;
  - (5) The total VOC usage for each month; and
  - (6) The weight of VOCs emitted for each compliance period.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**D.2.9 Hazardous Air Pollutant (HAP)**

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That the Permittee shall maintain records at the facility of the materials used that contain any HAPs. The records shall be complete and sufficient to establish compliance with the HAP usage limits and HAP emission limits that may be established in this permit. The records shall contain a minimum of the following:

- (a) The weight of HAP containing material used, including purchase orders and invoices necessary to verify the type and amount used;
- (b) The HAP content (**weight percent**) of each material used;
- (c) The weight of HAPs emitted for each compliance period, considering capture and control efficiency, if applicable; and
- (d) Identification of the facility or facilities associated with the usage of each HAP.

#### D.2.10 Quarterly Reporting

That a quarterly summary to document compliance with operation conditions D.2.1, D.2.2 and D.2.7(c) shall be submitted to the addresses listed in Section C (General Reporting Requirements), using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

### **SECTION D.3 FACILITY OPERATION CONDITIONS**

one (1) degreasing operation, referred to as unit 24, constructed in 1994, using 3400 gallons of 849 solvent per year, for degreasing metal brackets

#### **Emissions Limitations and Standards [326 IAC 2-8-4(1)] [326 IAC 8-3-5(a)]**

##### D.3.1 Volatile Organic Compounds (VOC)

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
  - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
    - (B) the solvent is agitated; or
    - (C) the solvent is heated.
  - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a

pressure which does not cause excessive splashing.

- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
  - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (B) A water cover when solvent used is insoluble in, and heavier than, water.
  - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
  - (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

#### D.3.2 Hazardous Air Pollutants (HAPs)

The amount of solvent usage shall be limited to 3400 gallons per 12 consecutive month period. This limit is necessary in order to ensure that the potential to emit toluene from the source is limited to 9.4 tons per 12 consecutive month period and that the total potential to emit HAPs from the source is limited to 24 tons per 12 consecutive month period. Therefore, the requirements of 326 IAC (Part 70), will not apply.

#### D.3.3 Hazardous Air Pollutants (HAPs)

Pursuant to the 40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants: Halogenated Solvent Cleaning, Subpart T, the solvent used in the bracket degreaser shall not contain any of the following halogenated solvents in concentrations greater than five percent by weight: methylene chloride, 1,1,1-trichloroethane, trichloroethylene, perchloroethylene, carbon tetrachloride, or chloroform. Therefore, the requirements of this NESHAP shall not apply.

### **Compliance Determination Requirements**

#### D.3.4 Testing Requirements [326 IAC 2-8-5(1)]

Testing of this facility is not required by this permit. However, if testing is required, compliance with the HAP limits specified in Condition D.3.2 shall be determined by a performance test

conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-8-4 and 326 IAC 2-8-5.

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

#### **D.3.5 Hazardous Air Pollutant (HAP)**

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That the Permittee shall maintain records at the facility of the materials used that contain any HAPs. The records shall be complete and sufficient to establish compliance with the HAP usage limits and HAP emission limits that may be established in this permit. The records shall contain a minimum of the following:

- (a) The weight of HAP containing material used, including purchase orders and invoices necessary to verify the type and amount used;
- (b) The HAP content (**weight percent**) of each material used;
- (c) The weight of HAPs emitted for each compliance period, considering capture and control efficiency, if applicable; and
- (d) Identification of the facility or facilities associated with the usage of each HAP.

#### **D.3.6 Quarterly Reporting**

---

That a quarterly summary to document compliance with operation condition D.3.2 shall be submitted to the addresses listed in Section C (General Reporting Requirements), using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

## SECTION D.4 FACILITY OPERATION CONDITIONS

one (1) degreasing operation, referred to as unit 21, constructed in 1994, using 1650 gallons of Carbo-Sol (trichloroethylene) per year, for degreasing motor shafts.

### Emissions Limitations and Standards [326 IAC 2-8-4(1)] [326 IAC 8-3-5(a)]

#### D.4.1 Volatile Organic Compounds (VOC)

Pursuant to 40 CFR 63, Subpart T, the degreasing operation shall comply with the following conditions:

- (a) The owner or operator shall employ a tightly fitting cover that shall be closed at all times except during parts entry and removal, and a freeboard ratio of 0.75 or greater.
- (b) All waste solvent shall be collected and stored in closed containers. The closed container may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
- (c) If a flexible hose or flushing device is used, flushing shall be performed only within the freeboard area of the solvent cleaning machine.
- (d) The owner or operator shall drain solvent cleaned parts for 15 seconds or until dripping has stopped, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while draining.
- (e) The owner or operator shall ensure that the solvent level does not exceed the fill line.
- (f) Spills during solvent transfer shall be wiped up immediately. The wipe rags shall be stored in covered containers meeting the requirements of (a) of this section.
- (g) When an air or pump-agitated solvent bath is used, the owner or operator shall ensure that the agitator is operated to produce a rolling motion of the solvent but not observable splashing against tank walls or parts being cleaned.
- (h) The owner or operator shall ensure that, when the cover is open, the cold cleaning machine is not exposed to drafts greater than 40 meters per minute (132 feet per minute), as measured between 1 and 2 meters (3.3 and 6.6 feet) upwind and at the same elevation as the tank lip.
- (i) Sponges, fabric, wood, and paper products shall not be cleaned.
- (j) The owner or operator shall submit an initial notification report immediately. The report shall include the following information:
  - (1) The name and address of the owner or operator;
  - (2) The address of the solvent cleaning machine;
  - (3) A brief description of each solvent cleaning machine including machine type, solvent/air interface area, and existing controls;
  - (4) The date of installation for the solvent cleaning machine;

- (5) The anticipated compliance approach for the solvent cleaning machine;
  - (6) An estimated annual halogenated HAP solvent consumption for the solvent cleaning machine.
- (k) The owner or operator shall submit an initial statement of compliance for the solvent cleaning machine no later than 150 days after startup. This statement shall include:
- (1) The name and address of the owner or operator;
  - (2) The address of the solvent cleaning machine;
  - (3) A statement, signed by the owner or operator of the solvent cleaning machine, stating that the solvent cleaning machine for which the report is being submitted is in compliance with the provisions of this subpart;
  - (4) The compliance approach for each solvent cleaning machine.

#### D.4.2 Volatile Organic Compounds (VOC)

---

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
    - (B) the solvent is agitated; or
    - (C) the solvent is heated.
  - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
  - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
  - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.

- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
  - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
  - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
  - (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

#### D.4.3 Hazardous Air Pollutants (HAPs)

The amount of solvent usage shall be limited to 1650 gallons per 12 consecutive month period. This limit is necessary in order to ensure that the potential to emit trichloroethylene from the source is limited to less than 9.4 tons per 12 consecutive month period and that the total potential to emit HAPs from the source is limited to 24 tons per 12 consecutive month period. Therefore, the requirements of 326 IAC (Part 70), will not apply.

### **Compliance Determination Requirements**

#### D.4.4 Testing Requirements [326 IAC 2-8-5(1)]

Testing of this facility is not required by this permit. However, if testing is required, compliance with the HAP limits specified in Condition D.4.3 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-8-4 and 326 IAC 2-8-5.

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

#### D.4.5 Hazardous Air Pollutant (HAP)

That the Permittee shall maintain records at the facility of the materials used that contain any HAPs. The records shall be complete and sufficient to establish compliance with the HAP usage limits and HAP emission limits that may be established in this permit. The records shall contain a minimum of the following:

- (a) The weight of HAP containing material used, including purchase orders and invoices

- necessary to verify the type and amount used;
- (b) The HAP content (**weight percent**) of each material used;
  - (c) The weight of HAPs emitted for each compliance period, considering capture and control efficiency, if applicable; and
  - (d) Identification of the facility or facilities associated with the usage of each HAP.

#### D.4.6 Quarterly Reporting

That a quarterly summary to document compliance with operation condition D.4.3 shall be submitted to the addresses listed in Section C (General Reporting Requirements), using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

### **SECTION D.5 FACILITY OPERATION CONDITIONS**

spray painting rotors with zinc chromate primer (insignificant activity – see Section A.3 (9))
--

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

##### D.5.1 Particulate Matter (PM)

Pursuant to 326 IAC 6-3-2 (Process Operations), the PM from the rotor coating process shall not exceed the pound per hour emission rate established as E in the following formula:

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

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

#### **Compliance Determination Requirements**

##### D.5.2 Testing Requirements [326 IAC 2-8-5(1)]

Testing of this facility is not required by this permit. However, if testing is required, compliance with the PM limit specified in Condition D.5.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-8-4 and 326 IAC 2-8-5.

### **SECTION D.6 FACILITY OPERATION CONDITIONS**

one (1) grinding and machining operation (insignificant activity)
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#### **Emissions Limitations and Standards [326 IAC 2-8-4(1)]**

##### D.6.1 Particulate Matter (PM)

Pursuant to 326 IAC 6-3-2 (Process Operations), the PM from the grinding and machining process shall not exceed the pound per hour emission rate established as E in the following formula:

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

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

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

### **Compliance Determination Requirements**

#### **D.6.2 Testing Requirements [326 IAC 2-8-5(1)]**

Testing of this facility is not required by this permit. However, if testing is required, compliance with the PM limit specified in Condition D.6.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-8-4 and 326 IAC 2-8-5.

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

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

Source Name: A.O. Smith / UPPCO  
Source Address: 302 North Sixth Street, Monticello, Indiana 47960  
Mailing Address: 302 North Sixth Street, Monticello, Indiana 47960  
FESOP No.: F181-7394-00036

**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 Annual Compliance Certification Letter
- 9 Emergency/Deviation Occurrence Reporting Form
- 9 Test Result (specify) \_\_\_\_\_
- 9 Report (specify) \_\_\_\_\_
- 9 Notification (specify) \_\_\_\_\_
- 9 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 MANAGEMENT  
COMPLIANCE DATA SECTION  
P.O. Box 6015  
100 North Senate Avenue  
Indianapolis, Indiana 46206-6015  
Phone: 317-233-5674  
Fax: 317-233-5967**

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

Source Name: A.O. Smith / UPPCO  
Source Address: 302 North Sixth Street, Monticello, Indiana 47960  
Mailing Address: 302 North Sixth Street, Monticello, Indiana 47960  
FESOP No.: F181-7394-00036

**This form consists of 2 pages**

**Page 1 of 2**

Check either No. 1 or No.2
<b>9</b> 1. This is an emergency as defined in 326 IAC 2-7-1(12) CThe Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and CThe Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
<b>9</b> 2. This is a deviation, reportable per 326 IAC 2-7-5(3)(c) CThe Permittee must submit notice in writing within ten (10) calendar days

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/Deviation:
Describe the cause of the Emergency/Deviation:

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

**Page 2 of 2**

Date/Time Emergency/Deviation started:
Date/Time Emergency/Deviation was corrected:
Was the facility being properly operated at the time of the emergency/deviation?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency/deviation:
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 MANAGEMENT  
 COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: A.O. Smith / UPPCO  
 Source Address: 302 North Sixth Street, Monticello, Indiana 47960  
 Mailing Address: 302 North Sixth Street, Monticello, Indiana 47960  
 FESOP No.: F181-7394-00036  
 Facility: Two (2) dip tanks, referred to as unit 22, for varnish coating of metal coils and stators  
 Parameter: Single HAP usage and combination HAPs usage  
 Limit: 0.80 tons ethyl benzene and 3.44 tons xylene per 12 consecutive month period

YEAR: \_\_\_\_\_

Month	Pollutant	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months	12 Month Total
1	ethyl benzene			
1	xylene			
2	ethyl benzene			
2	xylene			
3	ethyl benzene			
3	xylene			

9 No deviation occurred in this quarter.

9 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 MANAGEMENT  
 COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: A.O. Smith / UPPCO  
 Source Address: 302 North Sixth Street, Monticello, Indiana 47960  
 Mailing Address: 302 North Sixth Street, Monticello, Indiana 47960  
 FESOP No.: F181-7394-00036  
 Facility: Carbon adsorption unit  
 Parameter: Carbon unit replacements and fiberglass filter changeouts  
 Limit: Carbon units shall be replaced at least every 185 days, and fiberglass filters shall be changed at least every 185 days.

YEAR: \_\_\_\_\_

Month	Date(s) of Carbon Unit Replacements	Number of days since last carbon unit replacement	Date(s) of fiberglass filter changes	Number of days since last fiberglass filter changeout
1				
2				
3				

9 No deviation occurred in this quarter.

9 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 MANAGEMENT  
 COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: A.O. Smith / UPPCO  
 Source Address: 302 North Sixth Street, Monticello, Indiana 47960  
 Mailing Address: 302 North Sixth Street, Monticello, Indiana 47960  
 FESOP No.: F181-7394-00036  
 Facility: Bracket Degreaser, referred to as process 24  
 Parameter: Solvent usage  
 Limit: 3400 gallons per 12 consecutive month period

YEAR: \_\_\_\_\_

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

9 No deviation occurred in this quarter.

9 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 MANAGEMENT  
COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: A.O. Smith / UPPCO  
Source Address: 302 North Sixth Street, Monticello, Indiana 47960  
Mailing Address: 302 North Sixth Street, Monticello, Indiana 47960  
FESOP No.: F181-7394-00036  
Facility: Shaft Degreaser, referred to a process 21  
Parameter: Solvent usage  
Limit: 1650 gallons per 12 consecutive month period

YEAR: \_\_\_\_\_

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

9 No deviation occurred in this quarter.

9 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 MANAGEMENT  
 COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)  
 QUARTERLY COMPLIANCE REPORT**

Source Name: A.O. Smith / UPPCO  
 Source Address: 302 North Sixth Street, Monticello, Indiana 47960  
 Mailing Address: 302 North Sixth Street, Monticello, Indiana 47960  
 FESOP No.: F181-7394-00036

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the 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 zero in the column marked "No Deviations".

**LIST EACH COMPLIANCE REQUIREMENT EXISTING FOR THIS SOURCE:**

Requirement (eg. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation	No Deviations

Form Completed By: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

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

**Source Background And Description**

**Source Name:** A.O. Smith / UPPCO  
**Source Location:** 302 North Sixth Street, Monticello, Indiana 47960  
**County:** White  
**SIC Code:** 3621  
**Operation Permit No.:** F181-7394-00036  
**Permit Reviewer:** Nisha Sizemore

The Office of Air Management (OAM) has reviewed a Federally Enforceable State Operating Permit (FESOP) application from A.O. Smith / UPPCO relating to the operation of an electric motor manufacturing facility.

**Permitted Emission Units and Pollution Control Equipment**

There are no permitted facilities operating at this source during this review process.

**Unpermitted Emission Units and Pollution Control Equipment Under (ENSR)**

The source consists of the following unpermitted facilities/units:

- (1) nine (9) aluminum melting furnaces, collectively referred to as unit 17, each with a maximum heat input capacity of 0.4 million British thermal units per hour, with a combined melt capacity of 225.6 pounds per hour of aluminum metal;
- (2) two (2) dip tanks, referred to as unit 22, constructed in 1994, with a maximum capacity of 1.3 gallons of coating per hour, used for varnish coating of electric motor coils and stators, with a carbon adsorption system used for VOC control;
- (3) one (1) degreasing operation, referred to as unit 24, constructed in 1994, using 3400 gallons of 849 solvent per year, for degreasing metal brackets;
- (4) one (1) degreaser, referred to as unit 21, constructed in 1994, using 1650 gallons of Carbo-Sol (trichloroethylene) per year, used for degreasing motor shafts.

**New Emission Units and Pollution Control Equipment (ENSR)**

The application includes information relating to the modification of the shaft degreasing unit, consisting of the following:

- (1) The motor shaft degreaser, referred to as unit 21, was constructed and began operation in 1994 using Borothene, which is a solvent that does not contain HAPs. The modification will consist of replacing the Borothene solvent with the use of Carbo-sol

(trichloroethylene).

This modification will increase the potential HAPs emissions and also trigger the applicability of the Halogenated Solvent NESHAP.

### **Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (1) natural gas-fired combustion units;
- (2) combustion source flame safety purging on startup;
- (3) machining where an aqueous cutting coolant continuously floods the machining interface;
- (4) the following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment;
- (5) replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
- (6) paved and unpaved roads and parking lots with public access;
- (7) grinding and machining operations;
- (8) mold release agents using low volatile products;
- (9) use of rust inhibitor coating;
- (10) spray painting rotors with zinc chromate primer; and
- (11) parts cleaner for maintenance use.

### **Enforcement Issue**

- (a) IDEM is aware that the following equipment has been constructed and operated prior to receipt of the proper permit:
  - (1) nine (9) aluminum melting furnaces, each with a maximum heat input capacity of 0.4 million British thermal units per hour, with a combined melt capacity of 225.6 pounds per hour of aluminum metal;
  - (2) two (2) dip tanks, referred to as unit 22, with a maximum capacity of 1.3 gallons of coating per hour, used for varnish coating of electric motor coils and stators, with a carbon adsorption system used for VOC control;
  - (3) one (1) degreasing operation, referred to as unit 24, constructed in 1994, using 3400 gallons of 849 solvent per year, for degreasing metal brackets;
  - (4) one (1) degreaser, referred to as unit 21, constructed in 1994, using 1650

gallons of Carbo-Sol (trichloroethylene) per year, used for degreasing motor shafts.

- (b) IDEM is reviewing this matter and will take appropriate action. This proposed permit will also satisfy the requirements of the construction permit rules.

### Recommendation

The staff recommends to the Commissioner that the FESOP and Enhanced New Source Review be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP application for the purposes of this review was received on December 9, 1996. Additional information was submitted on January 31, 1997, November 17, 1997, November 24, 1997, December 30, 1997, and April 9, 1998.

### Emissions Calculations

See Appendix A: Emissions Calculations for detailed calculations (11 pages).

### Potential Emissions

Pursuant to 326 IAC 1-2-55, Potential Emissions are defined as "emissions of any one (1) pollutant which would be emitted from a facility, if that facility were operated without the use of pollution control equipment unless such control equipment is necessary for the facility to produce its normal product or is integral to the normal operation of the facility."

Pollutant	Potential Emissions (tons/year)
PM	less than 100
PM-10	less than 100
SO <sub>2</sub>	less than 100
VOC	less than 100
CO	less than 100
NO <sub>x</sub>	less than 100

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

See attached spreadsheets for detailed calculations.

HAP	Potential Emissions (tons/year)
toluene	less than 10
ethyl benzene	less than 10
xylene	greater than 10
glycol ether	less than 10
lead	less than 10
chromium	less than 10
cobalt	less than 10
manganese	less than 10

Trichloroethylene	less than 10
TOTAL	greater than 25

See attached spreadsheets for detailed calculations.

- (a) The potential emissions (as defined in Indiana Rule) of any single HAP are equal to or greater than ten (10) tons per year and the potential emissions (as defined in Indiana Rule) of a combination HAPs are greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.
- (c) The emissions from this source are in compliance with all the requirements for Enhanced New Source Review.

**Limited Potential To Emit**

- (a) The source has accepted a limit on potential to emit of 9.4 tons in any consecutive twelve month period for any single HAP and 24 tons in any consecutive twelve month period for any combination of HAPs.
- (b) The table below summarizes the total limited potential to emit of the significant and insignificant emission units.

Process/ facility	Limited Potential to Emit (tons/year)						
	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
shaft degreasing	0.00	0.00	0.00	7.99	0.00	0.00	7.99
varnish coating dip tanks	0.00	0.00	0.00	5.88	0.00	0.00	4.24
bracket degreasing	0.00	0.00	0.00	8.98	0.00	0.00	6.28
rotor coating	1.85	1.85	0.00	6.03	0.00	0.00	3.20
rust inhibitor coating	0.00	0.00	0.00	1.68	0.00	0.00	1.68

aluminum melting	2.10	1.30	0.00	0.00	0.00	0.00	0.00
natural gas combustion units	0.00	0.00	0.00	0.00	0.10	0.40	0.00
Total Emissions	3.95	3.15	0.00	30.56	0.10	0.40	23.39

**County Attainment Status**

The source is located in White County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) are precursors for the formation of ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. White County has been designated as attainment or unclassifiable for ozone.

**Federal Rule Applicability**

- (a) There are no New Source Performance Standards (326 IAC 12) and 40 CFR Part 60 applicable to this source.
- (b) The solvent degreaser, referred to as unit 21, utilizes cleaning products which contain greater than five percent (5%) by weight trichloroethylene (CAS No. 79-01-6), and was constructed after November 29, 1993; therefore, 40 CFR Part 63 Subpart T - National Emission Standards for Halogenated Solvent Cleaning, is applicable to this degreasing operation, with a compliance date beginning at startup and a notification of compliance due within 150 days following startup of the degreaser. Pursuant to 40 CFR 63, Subpart T, the degreasing operation shall comply with the following conditions:
  - (1) The owner or operator shall employ a tightly fitting cover that shall be closed at all times except during parts entry and removal, and a freeboard ratio of 0.75 or greater.
  - (2) All waste solvent shall be collected and stored in closed containers. The closed container may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
  - (3) If a flexible hose or flushing device is used, flushing shall be performed only within the freeboard area of the solvent cleaning machine.

- (4) The owner or operator shall drain solvent cleaned parts for 15 seconds or until dripping has stopped, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while draining.
- (5) The owner or operator shall ensure that the solvent level does not exceed the fill line.
- (6) Spills during solvent transfer shall be wiped up immediately. The wipe rags shall be stored in covered containers meeting the requirements of (1) of this section.
- (7) When an air or pump-agitated solvent bath is used, the owner or operator shall ensure that the agitator is operated to produce a rolling motion of the solvent but not observable splashing against tank walls or parts being cleaned.
- (8) The owner or operator shall ensure that, when the cover is open, the cold cleaning machine is not exposed to drafts greater than 40 meters per minute (132 feet per minute), as measured between 1 and 2 meters (3.3 and 6.6 feet) upwind and at the same elevation as the tank lip.
- (9) Sponges, fabric, wood, and paper products shall not be cleaned.
- (10) The owner or operator shall submit an initial notification report immediately. The report shall include the following information:
  - (i) The name and address of the owner or operator;
  - (ii) The address of the solvent cleaning machine;
  - (iii) A brief description of each solvent cleaning machine including machine type, solvent/air interface area, and existing controls;
  - (iv) The date of installation for the solvent cleaning machine;
  - (v) The anticipated compliance approach for the solvent cleaning machine;
  - (vi) An estimated annual halogenated HAP solvent consumption for the solvent cleaning machine.
- (11) The owner or operator shall submit an initial statement of compliance for the solvent cleaning machine no later than 150 days after startup. This statement shall include:
  - (i) The name and address of the owner or operator;
  - (ii) The address of the solvent cleaning machine;
  - (iii) A statement, signed by the owner or operator of the solvent cleaning machine, stating that the solvent cleaning machine for which the report is being submitted is in compliance with the provisions of this subpart;
  - (iv) The compliance approach for each solvent cleaning machine.

### **State Rule Applicability - Entire Source**

#### 326 IAC 2-6 (Emission Reporting)

Since this source is located in White County and the potential to emit VOC, SO<sub>2</sub>, PM, PM<sub>10</sub>, CO and NO<sub>x</sub> are less than one hundred (100) tons per year, 326 IAC 2-6 does not apply.

#### 326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of forty percent (40%) opacity in twenty-four (24) consecutive readings as determined by 326 IAC 5-1-4,
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

### **State Rule Applicability - nine (9) aluminum melting furnaces**

#### 326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter emissions from the aluminum melting process shall not exceed the allowable PM emissions of 0.95 pound per hour.

This limitation is based on the following equation:

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

$$E = 4.1 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

Based on calculations performed, the melting process is in compliance with this limit.

### **State Rule Applicability - Two (2) dip tanks used for varnish coating of metal coils and stators**

#### 326 IAC 8-2-9 (Miscellaneous Metal Coating)

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), the volatile organic compound (VOC) emissions shall be limited to 5.85 pounds VOC per gallon of coating less water delivered to the applicators. This is equivalent to a VOC content of 3.5 pounds VOC per gallon of coating less water after the effect of the carbon adsorber with a minimum overall efficiency of 82.36 percent.

Based on the MSDS submitted by the company and calculations made, the dip tanks are in compliance with this requirement.

326 IAC 2-8 (FESOP)

The carbon adsorber shall operate at a minimum overall efficiency of 82.36 percent at all times that the varnish coating process is in operation. The operation of this control device at this minimum efficiency is necessary in order to ensure that the ethyl benzene and xylene emissions are each limited to less than 9.4 tons per 12 consecutive month period and that the total HAPs emissions from the source are limited to 24 tons per 12 consecutive month period. Therefore, the requirements of 326 IAC (Part 70), will not apply.

**State Rule Applicability - one (1) degreaser, identified as unit 24, for degreasing metal brackets**

326 IAC 2-8 (FESOP)

The amount of solvent usage shall be limited to 3400 gallons per 12 consecutive month period. This limit is necessary in order to ensure that the potential to emit toluene from the source are limited to 9.4 tons per 12 consecutive month period and that the total HAPs emissions from the source are limited to 24 tons per 12 consecutive month period. Therefore, the requirements of 326 IAC (Part 70), will not apply.

326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control)

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
  - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
  - (B) the solvent is agitated; or
  - (C) the solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a

pressure which does not cause excessive splashing.

- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
  - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
  - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
  - (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

**State Rule Applicability - one (1) degreaser, identified as unit 21, for degreasing motor shafts**

326 IAC 2-8 (FESOP)

The amount of Carbo-sol (trichloroethylene) solvent usage shall be limited to 1650 gallons per 12 consecutive month period. This limit is necessary in order to ensure that the potential to emit trichloroethylene from the source is limited to 9.4 tons per 12 consecutive month period and that the total HAPs emissions from the source are limited to 24 tons per 12 consecutive month period. Therefore, the requirements of 326 IAC (Part 70), will not apply.

326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control)

- (a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
  - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
    - (A) the solvent volatility is greater than two (2) kiloPascals (fifteen (15)

millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));

- (B) the solvent is agitated; or
  - (C) the solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining.  
The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
- (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
- (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
- (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
  - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
  - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
  - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent

(20%) of the waste solvent by weight could evaporate.

### **State Rule Applicability - one (1) rotor coating operation**

326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2 (Process Operations), the PM from the rotor coating process shall not exceed the pound per hour emission rate established as E in the following formula:

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

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

### **State Rule Applicability - one (1) grinding and machining operation**

326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2 (Process Operations), the PM from the grinding and machining process shall not exceed the pound per hour emission rate established as E in the following formula:

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

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

### **Compliance Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in permit Section D are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in permit Section D. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

The carbon adsorber controlling the two (2) dip tanks used for varnish coating of metal coils have

applicable compliance monitoring conditions as specified below:

- (a) The Cameron Breakthrough Indicator shall be in operation at all times that the carbon adsorber is in operation. The Cameron Breakthrough Indicator shall be checked for evidence of breakthrough at least once every 30 days. If breakthrough is indicated, the carbon units in stage 2 shall be changed.
- (b) The carbon adsorption unit and the fiberglass filters (stage 1 or pre-filters) shall be checked every 90 days for proper mechanical/electrical operations and filters shall be changed as needed.
- (c) The carbon units in stage 2 and the fiberglass filters (pre-filters) in stage 1 shall be changed at least every 185 days. Carbon replacements must be monitored and recorded on a monthly basis. This information must be reported to OAM on a quarterly basis.
- (d) The amount of VOCs usage, the amount of any single HAP usage, and the amount of any combination of HAPs usage must be monitored and recorded on a monthly basis. This information must be reported to OAM on a quarterly basis. Records must be kept of the type and amount of coatings used. Material Safety Data Sheets must be kept on site for each coating used during the quarter being reported.
- (e) Additional inspections and preventive measures shall be performed as prescribed in the Preventive Maintenance Plan.

These monitoring conditions are necessary because the VOC and HAP emissions must be limited to below Title V levels. The source must demonstrate compliance with the FESOP limit and with 326 IAC 8-2-9.

### **Air Toxic Emissions**

Indiana presently requests applicants to provide information on emissions of the 187 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application Form GSD-08.

This source has accepted federally enforceable air toxic emission limits of 9.4 tons per 12 consecutive month period for any single HAP and 24 tons per 12 consecutive month period for any combination of HAPs.

### **Conclusion**

The operation of this electric motor manufacturing operation will be subject to the conditions of the attached proposed FESOP No. F181-7394-00036.

## Indiana Department of Environmental Management Office of Air Management

Addendum to the  
Technical Support Document for Federally Enforceable State Operating Permit (FESOP)

<b>Source Name:</b>	<b>A.O. Smith / UPPCO</b>
<b>Source Location:</b>	<b>302 North Sixth Street, Monticello, Indiana 47960</b>
<b>County:</b>	<b>White</b>
<b>SIC Code:</b>	<b>3621</b>
<b>Operation Permit No.:</b>	<b>F181-7394-00036</b>
<b>Permit Reviewer:</b>	<b>Nisha Sizemore</b>

On October 6, 1998, the Office of Air Management (OAM) had a notice published in the Herald Journal, Monticello, Indiana, stating that A.O. Smith / UPPCO had applied for a Federally Enforceable State Operating Permit (FESOP) to operate an aluminum casting and surface coating operation. The notice also stated that OAM proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The OAM has made the following changes to the FESOP:

- (1) A condition requiring a stack test for PM emissions from one of the aluminum melting furnaces has been added to Section D.1 of the permit. This new condition will replace condition D.1.2 of the permit, which said that no testing is required. The new condition is as follows:

#### D.1.2 Testing Requirements [326 IAC 2-8-5(1)]

Within 180 days after issuance of this permit, the Permittee shall perform PM testing on each of the aluminum melt furnaces (or a representative furnace), using methods as approved by the Commissioner, in order to demonstrate compliance with condition D.1.1. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. In addition to these requirements, IDEM may require compliance testing when necessary to determine if the facilities are in compliance.

- (2) A condition has been added to Section D.3 of the permit which limits what type of solvent(s) can be used in the degreaser. This condition will ensure that the degreaser does not trigger the applicability of the NESHAP 40 CFR Part 63, Subpart T. The new condition is as follows:

#### D.3.3 Hazardous Air Pollutants (HAPs)

Pursuant to the 40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants: Halogenated Solvent Cleaning, Subpart T, the solvent used in the degreaser shall not contain any of the following halogenated solvents in concentrations greater than five percent by weight: methylene chloride, 1,1,1-trichloroethane, trichloroethylene, perchloroethylene, carbon tetrachloride, or chloroform. Therefore, the requirements of this NESHAP shall not apply.

Other conditions in Section D.3 of the permit have been re-numbered appropriately.