



*Mitchell E. Daniels, Jr.*  
Governor

*Thomas W. Easterly*  
Commissioner

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

TO: Interested Parties / Applicant  
DATE: May 11, 2006  
RE: Muscatatuck Urban Training / 079-17768-00002  
FROM: Nisha Sizemore  
Chief, Permits Branch  
Office of Air Quality

### **Notice of Decision: Approval – Effective Immediately**

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-6-1(b) or IC 13-15-6-1(a) require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204.

For an **initial Title V Operating Permit**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **thirty (30)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(b).

For a **Title V Operating Permit renewal**, a petition for administrative review must be submitted to the Office of Environmental Adjudication within **fifteen (15)** days from the receipt of this notice provided under IC 13-15-5-3, pursuant to IC 13-15-6-1(a).

The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of an initial Title V operating permit, permit renewal, or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency  
401 M Street  
Washington, D.C. 20406

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



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## PART 70 OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

**Muscatatuck Urban Training Center (MUTC)  
4230 E. Administration Drive  
Butlerville, Indiana 47223**

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

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

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

Operation Permit No.: T 079-17768-00002	
Issued by: Original Signed By N. Sizemore Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: May 11, 2006  Expiration Date: May 11, 2011

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## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in Conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary urban training center for military and civilian organizations.

Responsible Officials:	State Program Manager and Steam Plant Supervisor
Source Address:	4230 E. Administration Drive, Butlerville, Indiana 47223
Mailing Address:	P.O. Box 77, Butlerville, Indiana 47223
General Source Phone Number:	812 - 346 - 4401
SIC Code:	9711
County Location:	Jennings
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

- (a) One (1) overfeed stoker chain grate coal-fired boiler, identified as B-2, installed in December 1988, rated at 51.0 million British thermal units per hour with a multiple cyclone for particulate matter control, exhausting to Stack S1.
- (b) One (1) overfeed stoker chain grate coal-fired boiler, identified as B-4, installed in January 1967, rated at 31.0 million British thermal units per hour, exhausting to Stack S3.
- (c) One (1) #2 fuel oil-fired boiler, identified as B-3, installed in October 1977, rated at 37.5 million British thermal units per hour, exhausting to Stack S2.
- (d) One (1) #2 fuel oil-fired boiler, identified as B-1A, installed in November 2002, rated at 17.8 million British thermal units per hour, exhausting to Stack S1.

### A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

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

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs; brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (b) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. (326 IAC 6-3-2)

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, T 079-17768-00002 is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### B.3 Term of Conditions [326 IAC 2-1.1-9.5]

Notwithstanding the permit term of a permit to construct, a permit to operate, or a permit modification, any condition established in a permit issued pursuant to a permitting program approved in the state implementation plan shall remain in effect until:

- (a) the condition is modified in a subsequent permit action pursuant to Title I of the Clean Air Act; or
- (b) the emission unit to which the condition pertains permanently ceases operation.

### B.4 Enforceability [326 IAC 2-7-7]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

### B.5 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

### B.6 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

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

### B.7 Duty to Provide Information [326 IAC 2-7-5(6)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U.S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.8 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification 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, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

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

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
  - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
  - (2) The compliance status;
  - (3) Whether compliance was continuous or intermittent;
  - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
  - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ, may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain Preventive Maintenance Plans (PMPs), including the following information on each facility:
  - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
  - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
  - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,  
Compliance Section), or  
Telephone Number: 317-233-5674 (ask for Compliance Section)  
Facsimile Number: 317-233-5967

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

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

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
  - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

**B.13** Prior Permits Superseded [326 IAC 2-1.1-9.5] [326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T 079-17768-00002 and issued pursuant to permitting programs approved into the state implementation plan have been

- either
- (1) incorporated as originally stated,
  - (2) revised under 326 IAC 2-7-10.5, or
  - (3) deleted under 326 IAC 2-7-10.5.

- (b) Provided that all terms and conditions are accurately reflected in this combined permit, all previous registrations and permits are superseded by this Part 70 operating permit.

**B.14 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]**

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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 2-7-3 and 326 IAC 2-7-4(a).

**B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]**

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- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

**B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]**

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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 Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

- (1) That this permit contains a material mistake.
- (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
- (3) That this permit must be revised or revoked to assure compliance with an applicable

requirement. [326 IAC 2-7-9(a)(3)]

- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

**B.17 Permit Renewal [326 IAC 2-7-3] [326 IAC 2-7-4] [326 IAC 2-7-8(e)]**

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- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

- (b) A timely renewal application is one that is:
  - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
  - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.

**B.18 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12] [40 CFR 72]**

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- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Pursuant to 326 IAC 2-7-11(b) and 326 IAC 2-7-12(a), administrative Part 70 permit amendments and permit modifications for purposes of the acid rain portion of a Part 70 permit shall be governed by regulations promulgated under Title IV of the Clean Air Act. [40 CFR 72]
- (c) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (d) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]
- (e) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

**B.19 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]**

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- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

**B.20 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]**

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
  - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
  - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
  - (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b), (c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-7-20(b)(1), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a). For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

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

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

**B.21 Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2-2]**

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2.

**B.22 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]**

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
  
The application 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) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)] [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ, the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

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

**SECTION C**

**SOURCE OPERATION CONDITIONS**

Entire Source

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

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

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

**C.2 Opacity [326 IAC 5-1]**

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 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]**

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

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

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

**C.6 Stack Height [326 IAC 1-7]**

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

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

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five

(35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
  - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
  - (2) If there is a change in the following:
    - (A) Asbestos removal or demolition start date;
    - (B) Removal or demolition contractor; or
    - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) **Procedures for Asbestos Emission Control**  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and renovation**  
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana 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 to use an Indiana Accredited Asbestos inspector is not federally enforceable.

### Testing Requirements [326 IAC 2-7-6(1)]

#### 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 any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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 Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ, not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the Permittee submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

### Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

#### C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the

reasons for the inability to meet this date.

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

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

**C.11 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

---

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63, or other approved methods as specified in this permit.

**Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]**

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

---

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

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on April 27, 2005.
- (b) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

**C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]**

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

**C.14 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]**

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- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:
  - (1) initial inspection and evaluation;
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:

- (1) monitoring results;
  - (2) review of operation and maintenance procedures and records;
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

**C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (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, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

- (a) Pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

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

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

C.17 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a reasonable possibility that a “project” (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit other than projects at a Clean Unit, which is not part of a “major modification” (as defined in 326 IAC 2-2-1 (ee)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1 (rr)), the Permittee shall comply with following:
  - (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit, document and maintain the following records:
    - (A) A description of the project;
    - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project;
    - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
      - (i) Baseline actual emissions;
      - (ii) Projected actual emissions;
      - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii); and
      - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
  - (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and

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

C.18 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ:
  - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx), for that regulated NSR pollutant, and
  - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for a project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:

- (1) The name, address, and telephone number of the major stationary source.
- (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C-General Record Keeping Requirements.
- (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3).
- (4) Any other information that the Permittee deems fit to include in this report,

Reports required in this part shall be submitted to:

Indiana Department of Environmental Management  
Air Compliance Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C - General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

### **Stratospheric Ozone Protection**

#### **C.19 Compliance with 40 CFR 82 and 326 IAC 22-1**

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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**

**Facility Description [326 IAC 2-7-5(15)] Boilers**

- (a) One (1) overfeed stoker chain grate coal-fired boiler, identified as B-2, installed in December 1988, rated at 51.0 million British thermal units per hour with a multiple cyclone for particulate matter control, exhausting to Stack S1.
- (b) One (1) overfeed stoker chain grate coal-fired boiler, identified as B-4, installed in January 1967, rated at 31.0 million British thermal units per hour, exhausting to Stack S3.
- (c) One (1) #2 fuel oil-fired boiler, identified as B-3, installed in October 1977, rated at 37.5 million British thermal units per hour, exhausting to Stack S2.
- (d) One (1) #2 fuel oil-fired boiler, identified as B-1A, installed in November 2002, rated at 17.8 million British thermal units per hour, exhausting to Stack S1

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

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

**D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]**

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the oil-fired boiler, identified as B-1A, except when otherwise specified in 40 CFR Part 60, Subpart Dc.

**D.1.2 Coal Usage Limitation**

Pursuant to OP 40-10-92-0050, issued on June 8, 1989, the total coal usage for all boilers shall not exceed 9,124 tons per twelve (12) consecutive month period with compliance determined at the end on each month. This limit is based upon a coal sulfur content of 3% and a coal heat content of 11,000 British thermal units per pound.

**D.1.3 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1] [326 IAC 7-2-1]**

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) the SO<sub>2</sub> emissions from the 17.8 and 37.5 million British thermal units per hour oil-fired boilers, identified B-1A and B-3, shall each not exceed five tenths (0.5) pounds per million British thermal units heat input. Pursuant to 326 IAC 7-2-1, compliance shall be demonstrated on a calendar month average.

**D.1.4 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1] [326 IAC 12-1]**

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations) and 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units):

- (a) The SO<sub>2</sub> emissions from the 17.8 million British thermal units per hour oil-fired boiler, identified as B-1A, shall not exceed five tenths (0.5) pounds per million British thermal units heat input; or
- (b) The sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight. [40 CFR 60.42c(d)]

Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction.

D.1.5 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-1.1-1]

Pursuant to 326 IAC 7-1.1 (SO<sub>2</sub> Emissions Limitations), the SO<sub>2</sub> emissions from the coal fired boilers, identified as B-2 and B-4, shall not exceed six (6.0) pounds per million British thermal units heat input while combusting coal. Compliance shall be demonstrated on a monthly average.

D.1.6 Particulate [326 IAC 6-2-3]

(a) Pursuant to 326 IAC 6-2-3(d), the PM emissions from coal-fired boiler, identified as B-4, shall be limited to 0.8 pounds per million British thermal units heat input.

(b) Pursuant to 326 IAC 6-2-3(e), the PM emissions from oil-fired boiler, identified as B-3, shall be limited to 0.6 pounds per million British thermal units heat input.

D.1.7 Particulate [326 IAC 6-2-4]

(a) Pursuant to 326 IAC 6-2-4, the PM emissions from coal-fired boiler, identified as B-2, shall be limited to 0.314 pounds per million British thermal units heat input.

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

Pt = Pounds of particulate matter emitted per million British thermal units heat input.

Q = Total source maximum operating capacity rating in million British thermal units heat input. The maximum operating capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's operation permit application, except when some lower capacity is contained in the facility's operation permit, in which case, the capacity specified in the operation permit shall be used.

(b) Pursuant to 326 IAC 6-2-4, the PM emissions from oil-fired boiler, identified as B-1A, shall be limited to 0.303 pounds per million British thermal units heat input.

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

Pt = Pounds of particulate matter emitted per million British thermal units heat input.

Q = Total source maximum operating capacity rating in million British thermal units heat input. The maximum operating capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's operation permit application, except when some lower capacity is contained in the facility's operation permit, in which case, the capacity specified in the operation permit shall be used.

D.1.8 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

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

**Compliance Determination Requirements**

D.1.9 Sulfur Dioxide Emissions and Sulfur Content

Compliance with Condition D.1.3 shall be determined utilizing one of the following options for the oil-fired boilers, identified B-1A and B-3:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed five-tenths (0.5) pound per million British thermal units heat input by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boilers using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.1.10 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 2-7-5(3)(A)] [326 IAC 2-7-6]

Pursuant to 326 IAC 7-2, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed six (6.0) pounds per million British thermal units coal fired boilers, identified as B-2 and B-4. Compliance shall be determined utilizing the following options:

- (a) Providing vendor analysis of coal delivered, if accompanied by a certification from the fuel supplier as described under 40 CFR 60.48c(f)(3). The certification shall include:
  - (1) The name of the coal supplier; and
  - (2) The location of the coal when the sample was collected for analysis to determine the properties of the coal, specifically including whether the coal was sampled as delivered to the affected facility or whether the coal was collected from coal in storage at the mine, at a coal preparation plant, at a coal supplier's facility, or at another location. The certification shall include the name of the coal mine (and coal seam), coal storage facility, or coal preparation plant (where the sample was collected); and
  - (3) The results of the analysis of the coal from which the shipment came (or of the shipment itself) including the sulfur content, moisture content, ash content, and heat content; and

- (4) The methods used to determine the properties of the coal; and
- (b) Sampling and analyzing the coal using one of the following procedures:
  - (1) Minimum Coal Sampling Requirements and Analysis Methods:
    - (A) The coal sample acquisition point shall be at a location where representative samples of the total coal flow to be combusted by the facility or facilities may be obtained. A single as-bunkered or as-burned sampling station may be used to represent the coal to be combusted by multiple facilities using the same stockpile feed system;
    - (B) Coal shall be sampled at least one (1) time per day;
    - (C) Minimum sample size shall be five hundred (500) grams;
    - (D) Samples shall be composited and analyzed at the end of each calendar quarter;
    - (E) Preparation of the coal sample, heat content analysis, and sulfur content analysis shall be determined pursuant to 326 IAC 3-7-2(c), (d), (e); or
  - (2) Sample and analyze the coal pursuant to 326 IAC 3-7-3; or
- (c) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6, which is conducted with such frequency as to generate the amount of information required by (a) or (b) above. [326 IAC 7-2-1(b)]

A determination of noncompliance pursuant to any of the methods specified in (a), (b), or (c) above shall not be refuted by evidence of compliance pursuant to the other method.

#### D.1.11 Particulate Control [326 IAC 2-7-6(6)]

In order to comply with Condition D.1.7, the multiple cyclone for particulate control shall be in operation and control emissions from the coal-fired boiler, identified as B-2, at all times that this coal-fired boiler is in operation.

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

#### D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the oil and coal-fired boiler stack exhausts S1, S3, and S2 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

#### D.1.13 Cyclone Failure Detection

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- (a) For a cyclone controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).
- (b) For a cyclone controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Cyclone failure can be indicated by a significant drop in the cyclone's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

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

#### D.1.14 Record Keeping Requirements

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- (a) To document compliance with Condition D.1.3, 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 SO<sub>2</sub> emission limit established in Condition D.1.3.
  - (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
  - (3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

If the fuel supplier certification is used to demonstrate compliance, when burning alternate fuels and not determining compliance pursuant to 326 IAC 3-7-4, the following, as a minimum, shall be maintained:

- (4) Fuel supplier certifications;
  - (5) The name of the fuel supplier; and
  - (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.
- (b) To document compliance with Conditions D.1.2, D.1.5, D.1.6 and D.1.7, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the PM and SO<sub>2</sub> emission limits established in Conditions D.1.2, D.1.5, D.1.6 and D.1.7.

- (1) Calendar dates covered in the compliance determination period; and;
  - (2) Actual coal usage since last compliance determination period; and;
  - (3) Sulfur content, heat content, and ash content; and;
  - (4) Sulfur dioxide emission rates; and;
  - (5) Vendor analysis of coal and coal supplier certification.
- (c) To document compliance with Condition D.1.12, the Permittee shall maintain records of visible emission notations of the oil and coal-fired boiler stack exhausts S1, S3, and S2.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.15 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**SECTION D.2**

**FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)]: Insignificant Activities**

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs; brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (b) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. (326 IAC 6-3-2)

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

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

**D.2.1 Particulate [326 IAC 6-3-2]**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the above insignificant activities shall not exceed the pounds per hour limitation when operating at a specified process weight rate calculated by:

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

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

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

**PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Muscatatuck Urban Training Center (MUTC)  
Source Address: 4230 E. Administration Drive, Butlerville, Indiana 47223  
Mailing Address: P.O. Box 77, Butlerville, Indiana 47223  
Part 70 Permit No.: T 079-17768-00002

**This certification shall be included when submitting monitoring, testing reports/results  
or other documents as required by this permit.**

Please check what document is being certified:

- Annual Compliance Certification Letter
- Test Result (specify) \_\_\_\_\_
- Report (specify) \_\_\_\_\_
- Notification (specify) \_\_\_\_\_
- Affidavit (specify) \_\_\_\_\_
- Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
Phone: 317-233-5674  
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Muscatatuck Urban Training Center (MUTC)  
Source Address: 4230 E. Administration Drive, Butler, Indiana 47223  
Mailing Address: P.O. Box 77, Butler, Indiana 47223  
Part 70 Permit No.: T 079-17768-00002

**This form consists of 2 pages**

**Page 1 of 2**

<input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.
--

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency?    Y    N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

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

A certification is not required for this report.

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

**Part 70 Quarterly Report**

Source Name: Muscatatuck Urban Training Center (MUTC)  
 Source Address: 4230 E. Administration Drive, Butlerville, Indiana 47223  
 Mailing Address: P.O. Box 77, Butlerville, Indiana 47223  
 Part 70 Permit No.: T 079-17768-00002  
 Facility: Coal-Fired Boilers, identified as B-2 and B-4  
 Parameter: Coal Usage  
 Limit: 9,124 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

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

Month	Coal Usage (tons)	Coal Usage (tons)	Coal Usage (tons)
	This Month	Previous 11 Months	12 Month Total

- No deviation occurred in this month.
- Deviation/s occurred in this month.  
 Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
 Title/Position: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

**PART 70 OPERATING PERMIT  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Muscatatuck Urban Training Center (MUTC)  
 Source Address: 4230 E. Administration Drive, Butlerville, Indiana 47223  
 Mailing Address: P.O. Box 77, Butlerville, Indiana 47223  
 Part 70 Permit No.: T 079-17768-00002

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

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<b>Permit Requirement</b> (specify permit condition #)	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

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

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

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

Addendum to the  
Technical Support Document for a Part 70 Operating Permit Renewal

**Source Name:** Muscatatuck Urban Training Center (MUTC)  
**Source Location:** 4230 E. Administration Drive, Butlerville, IN 47223  
**County:** Jennings  
**SIC Code:** 8063  
**Operation Permit No.:** T 079-17768-00002  
**Permit Reviewer:** Frank P. Castelli

On January 10, 2006, the Office of Air Quality (OAQ) had a notice published in the Plain Dealer and Sun in North Vernon, Indiana, stating that Muscatatuck Urban Training Center (MUTC) had applied for a Part 70 Operating Permit renewal to continue to operate an urban training center. The notice also stated that OAQ proposed to issue a Part 70 Operating Permit renewal for this operation and provided information on how the public could review the proposed Part 70 Operating Permit renewal 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 Part 70 Operating Permit renewal should be issued as proposed.

On March 3, 2006, Sarah Huffmeyer of Muscatatuck Urban Training Center (MUTC) and on behalf of the United States Army Environmental Center USAEC and National Guard Bureau Environmental Programs Division, submitted comments on the proposed Part 70 Operating Permit. The comments are as follows: The permit language, if changed, has deleted language as ~~strikeouts~~ and new language **bolded**.

**Comment 1:**

Due to the nature of operation at the Muscatatuck Urban Training Center, we feel that MUTC should be dropped down to a Synthetic Minor and not be subject to the Title V based on the way the facility operates by running coal fired boilers in the winter months and switch to No. 2 heating oil for the summer months. The way the facility operates by running the coal boilers for part of the year and then switching should be just the kind of "controls" regulators need to ensure PTE remains below the annual thresholds.

**Response 1:**

Muscatatuck Urban Training Center (MUTC) can apply to transition from a Part 70 Operating Permit to a Federally Enforceable State Operating Permit (FESOP) pursuant to 326 IAC 2-7-22.

If a FESOP is desired, the sulfur dioxide (SO<sub>2</sub>) emissions from the four (4) boilers on coal and fuel oil must be limited such that the source-wide SO<sub>2</sub> emissions are less than one hundred (100) tons per year. The potential to emit SO<sub>2</sub> on coal is 1,861 tons per year and is currently limited to 520 tons per year. The potential to emit SO<sub>2</sub> from the boilers combusting fuel oil is 123 tons per year. Therefore, as an example, if the coal-fired boilers only operated for the three (3) winter months, they would emit 1/4 of 1,861 tons equivalent to 465 tons of SO<sub>2</sub> per year. This clearly exceeds the limit that would be imposed by a FESOP.

Therefore, in order for the MUTC to qualify for a FESOP, the amounts of coal and of fuel oil combusted in the four (4) boilers must be limited such that the sum of the SO<sub>2</sub> emissions from the boilers is less than 99.5 tons per year. In order to show compliance with this limit, the source would be required to maintain records of the amount of fuel oil and coal burned in each boiler on a monthly basis. Quarterly reports would also be required to show compliance with the FESOP limits.

After the comments were submitted, a conference call was held on March 7, 2006 between representatives of MUTC and the IDEM. MUTC decided not to pursue a transition to a FESOP at this time.

Therefore, no changes to the proposed permit have been made due to this comment.

**Comment 2:**

Additional administrative changes to T 079-17768-00002.

Section A: A.1

The Permittee owns and operates an urban training center for military and civilian organizations.

Responsible Official	Ron Puckett - State Program Manager Steve Helm – Steam Plant Supervisor
Source Address:	4230 E. Administration Drive, Butlerville, IN 47223
Mailing Address:	P.O. Box 77 Butlerville, IN 47223
SIC Code	9711 – National Security

**Response 2:**

Condition A.1 has been revised to change the source description, incorporate the titles of the responsible officials, and update the SIC Code and address throughout the permit as follows:

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]

The Permittee owns and operates a stationary **urban training center for military and civilian organizations** ~~mental institution.~~

Responsible Officials:	<b>State Program Manager and Steam Plant Supervisor</b> <del>Superintendent</del>
Source Address:	4230 E. Administration Dr. <del>Highway 50-E</del> , Butlerville, Indiana 47223
Mailing Address:	P.O. Box 77, Butlerville, Indiana 47223
General Source Phone Number:	812 - 346 - 4401
SIC Code:	<b>9711</b> <del>8063</del>
County Location:	Jennings
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Major Source, under PSD Rules

**Comment 3:**

The MUTC has re-designated the stack identifications in Conditions A.2, Section D.1 and Conditions D.1.12(a) and D.1.14(c) as follows:

Stack S-B-1/2 known as S1  
Stack S-B-4 known as S3  
Stack S-B-3 known as S2

**Response 3:**

The stack identifications in Condition A.2 and Section D.1 have been changed from S-B-1/2 to S1, from S-B-4 to S3 and from S-B-3 to S2 as follows:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

- (a) One (1) overfeed stoker chain grate coal-fired boiler, identified as B-2, installed in December

1988, rated at 51.0 million British thermal units per hour with a multiple cyclone for particulate matter control, exhausting to Stack **S1** ~~S-B-1/2~~.

- (b) One (1) overfeed stoker chain grate coal-fired boiler, identified as B-4, installed in January 1967, rated at 31.0 million British thermal units per hour, exhausting to Stack **S3** ~~S-B-4~~.
- (c) One (1) #2 fuel oil-fired boiler, identified as B-3, installed in October 1977, rated at 37.5 million British thermal units per hour, exhausting to Stack **S2** ~~S-B-3~~.
- (d) One (1) #2 fuel oil-fired boiler, identified as B-1A, installed in November 2002, rated at 17.8 million British thermal units per hour, exhausting to Stack **S1** ~~S-B-1/2~~.

In addition, these same changes have been made to Conditions D.1.12(a) and D.1.14(c) as follows:

D.1.12 Visible Emissions Notations

- (a) Visible emission notations of the oil and coal-fired boiler stack exhausts **S1, S3 and S2** ~~S-B-1/2, S-B-4, and S-B-3~~ shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

D.1.14 Record Keeping Requirements

- (c) To document compliance with Condition D.1.12, the Permittee shall maintain records of visible emission notations of the oil and coal-fired boiler stack exhausts **S1, S3 and S2** ~~S-B-1/2, S-B-4, and S-B-3~~.

**Comment 4:**

D.2.1 Particulate

New addition to permit? Not a significant source.

**Response 4:**

The Technical Support Document for the Part 70 Operating Permit, T 079-7407-00002, issued on February 10, 1999, did not address the applicable rules for insignificant activities. These insignificant activities were also not included in the permit. The proposed Part 70 Operating Permit Renewal and Technical Support Document did list these same insignificant activities. These insignificant activities were incorporated into Section D.2 of the proposed renewal. Section D.2 addresses the applicability of State rule 326 IAC 6-3 to these insignificant activities. Therefore, no changes to the proposed permit are necessary.

**Comment 5:**

Please update the Technical Support Documents as noted below:

Source Background and Description

Source Location: 4230 E Administration Drive Butlerville, IN 47223  
SIC: 9711

Permitted Emission Units and Pollution Control Equipment

Stack S-B-1/2 known as S1  
Stack S-B-4 known as S3  
Stack S-B-3 known as S2

#### Existing Approvals

- (d) Add administrative amendment T 079-7407-00002 issued on June 10, 2005.
- (e) Now listed as *Condition D.1.7 (b)* in new permit Particulate Matter PM 326 IAC 6-2-4 The PM emission limit for the oil fired boiler, identified as B-1A constructed in 2000.....
- (f) Now listed as *Condition D.1.7 (a)* in new permit Particulate Matter The PM emission limit for oil fired boiler identified as B-2 constructed in 1988...

#### State Rule Applicability

326 IAC 2-4.1-1

The operation of an *urban training center* will emit less than 10 tons per year.....

#### Conclusion

The operation of an *urban training center* shall be.....

#### Response 5:

The Technical Support Document for this proposed Part 70 Operating Permit is not updated due to comments submitted during the Public Comment period. All changes and responses to comments are documented in this Addendum to the Technical Support Document. See Responses 1 through 4.

The section of the TSD under Existing Approvals makes reference to the conditions in the Part 70 Operating Permit, T 079-7407-00002, issued on February 10, 1999, and not the conditions in the proposed renewal. Therefore, the TSD cites to Conditions D.1.6 and D.1.9 were correct.

Administrative Amendment 079-21293-00002, issued on June 10, 2005, transferred the operational control of the source to the Military Department of Indiana and changed the name to Muscatatuck Urban Training Center (MUTC). No changes to the proposed permit are required.

All other comments on the address and description of the source and stack identifications have been addressed in the previous responses.

Upon further review, the OAQ has decided to make the following additional changes to the Part 70 Operating Permit: The permit language is changed to read as follows (deleted language appears as ~~strikeouts~~, new language is **bolded**):

#### Change 1:

In IDEM's Nonrule Policy Document, a table is presented as an example of how sources can submit their annual compliance certifications. Condition B.9 (Annual Compliance Certification) is being revised to remove "in letter form" so that the condition does not contradict the guidance as follows:

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

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in

~~letter form~~ no later than July 1 of each year to:

**Change 2:**

In Condition B.12 (Permit Shield), the word "in" has been deleted from the second sentence to be consistent with 326 IAC 2-7-15(a) as follows:

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

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

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

Technical Support Document (TSD) for a Part 70 Operating Permit Renewal

**Source Background and Description**

<b>Source Name:</b>	<b>Muscatatuck Urban Training Center (MUTC)</b>
<b>Source Location:</b>	<b>Highway 50-E, Butlerville, Indiana 47223</b>
<b>County:</b>	<b>Jennings</b>
<b>SIC Code:</b>	<b>8063</b>
<b>Operation Permit No.:</b>	<b>T 079-7407-00002</b>
<b>Operation Permit Issuance Date:</b>	<b>February 10, 1999</b>
<b>Permit Renewal No.:</b>	<b>T 079-17768-00002</b>
<b>Permit Reviewer:</b>	<b>Frank P. Castelli</b>

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Muscatatuck Urban Training Center (MUTC), formerly Muscatatuck State Developmental Center, relating to the operation of a mental institution.

**Permitted Emission Units and Pollution Control Equipment**

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

- (a) One (1) overfeed stoker chain grate coal-fired boiler, identified as B-2, installed in December 1988, rated at 51.0 million British thermal units per hour with a multiple cyclone for particulate matter control, exhausting to Stack S-B-1/2.
- (b) One (1) overfeed stoker chain grate coal-fired boiler, identified as B-4, installed in January 1967, rated at 31.0 million British thermal units per hour, exhausting to Stack S-B-4.
- (c) One (1) #2 fuel oil-fired boiler, identified as B-3, installed in October 1977, rated at 37.5 million British thermal units per hour, exhausting to Stack S-B-3.
- (d) One (1) #2 fuel oil-fired boiler, identified as B-1A, installed in November 2002, rated at 17.8 million British thermal units per hour, exhausting to Stack S-B-1/2.

**Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted emission units operating at this source during this review process.

**New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval**

There are no proposed emission units during this review process.

**Insignificant Activities**

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

- (a) The following equipment related to manufacturing activities not resulting in the emission of HAPs; brazing equipment, cutting torches, soldering equipment, welding equipment. (326 IAC 6-3-2)
- (b) Dust collector at the carpenter shop.

- (c) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (d) Paved and unpaved roads and parking lots with public access.
- (e) Blowdown for any of the following: sight glass; boiler; compressors; and pumps.
- (f) Four (1) emergency diesel generators not exceeding 1600 horsepower, rated at 150 KW, each.
- (g) Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4,000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations. (326 IAC 6-3-2)
- (h) Two (2) electrostatic purifiers in the carpenter shop.

### Existing Approvals

The source has been operating under the previous Part 70 Operating Permit T 079-7407-00002 issued on February 10, 1999, with an expiration date of February 10, 2004, and the following amendments and modifications:

- (a) SSM 079-11991-00002, issued on June 23, 2000,
- (b) SPM 079-12084-00002, issued on August 11, 2000, and
- (c) R 079-13342-00002, issued on January 2, 2002.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this proposed permit. All previous registrations and permits are superseded by this permit.

The following terms and conditions from previous approvals have been revised or added in this Part 70 Operating Permit:

- (a) IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, IDEM has deleted paragraph (b) of Condition B.12 (Preventive Maintenance Plan) and has amended Condition B.13 (Emergency Provisions).
- (b) Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule is effective March 16, 2005; therefore, a new condition, entitled, Credible Evidence, reflecting this rule will be incorporated into Section B of the permit.
- (c) IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a com-

pliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan (Condition C.17) with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated.

- (d) IDEM has determined that once per day monitoring of visible emission notations is generally sufficient to ensure proper operation of the facility stack exhaust. IDEM has also determined that monitoring this parameter once per day is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6.

- (e) Condition D.1.9 (Particulate Matter (PM) 326 IAC 6-2-4)

The PM emission limit for the oil-fired boiler, identified as B-1A, constructed in 2000, has been revised from 0.242 to 0.303 pounds per million British thermal units heat input since the allowable PM emission rate should have been calculated pursuant to the equation in 326 IAC 6-2-4 rather than the equation in 326 IAC 6-2-2.

- (f) Condition D.1.6 (Particulate Matter (PM) 326 IAC 6-2-4)

The PM emission limit for the coal-fired boiler, identified as B-2, constructed in 1988, has been revised from 0.28 to 0.314 pounds per million British thermal units heat input since the boiler B-1 was removed. Therefore the PM emission limit has been recalculated with the source-wide boiler capacity of 119.5 million British thermal units per hour pursuant to the equation in 326 IAC 6-2-4.

The following terms and conditions from previous approvals have been determined no longer applicable; therefore, were not incorporated into this proposed Part 70 Operating Permit:

- (a) Since the requirements of Condition C.7 (Operation of Equipment) have been incorporated in the D Sections, Condition C.7 has been removed from the permit.

- (b) Condition D.1.5 (Usage Limit)

Reason not incorporated: The 2,300 kilogallons per year fuel oil limit is not required for fuel oil-fired boiler, identified as B-3, to comply with the requirements of 326 IAC 7-1.1-2 because the 0.5% sulfur content of the fuel oil shows compliance with the 0.5 pounds of SO<sub>2</sub> per million British thermal units of heat input limit of 326 IAC 7-1.1-2.

### **Enforcement Issue**

There are no enforcement actions pending.

### **Recommendation**

The staff recommends to the Commissioner that the Part 70 Operating Permit 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 Part 70 Operating Permit renewal application for the purposes of this review was received on July 23, 2003. Additional information was received on April 29, 2005.

**Emission Calculations**

See pages 1 and 4 of Appendix A of this document for detailed emission calculations.

**Potential to Emit of the Source**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA.”

The source was issued a Part 70 Operating Permit on February 10, 1999. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of the original Part 70 Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/Emission Unit	Potential To Emit (tons/yr)						
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Coal Boilers B-2 & B-4	73.2	27.6	520	0.228	27.4	34.2	0.041
Oil Boilers B-3 & B-1A	3.46	3.46	123	0.590	8.65	34.6	0.010
Insignificant Activities	10.4	5.44	0.412	1.51	1.34	6.24	0.5
Total Emissions	87.1	36.5	643	2.32	37.4	75.0	0.553

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of SO<sub>2</sub> is equal to or greater than one hundred (100) tons per year before controls. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Fugitive Emissions  
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**Actual Emissions**

The following table shows the actual emissions from the source. This information reflects the 2002 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM <sub>2.5</sub>	1
PM <sub>10</sub>	1
SO <sub>2</sub>	65
VOC	0

Pollutant	Actual Emissions (tons/year)
CO	7
NO <sub>x</sub>	12
HAP	Not Reported

**County Attainment Status**

The source is located in Jennings County.

Pollutant	Status
PM <sub>2.5</sub>	attainment
PM <sub>10</sub>	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
1-Hour Ozone	attainment
8-Hour Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to ozone. Jennings County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (b) Jennings County has been classified as attainment or unclassifiable in Indiana for all remaining criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability - Entire Source section of this document.
- (c) Jennings County has been classified as unclassifiable or attainment for PM<sub>2.5</sub>. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for PM<sub>2.5</sub> emissions. Therefore, until the U.S.EPA adopts specific provisions for PSD review for PM<sub>2.5</sub> emissions, it has directed states to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions. See the State Rule Applicability - Entire Source section of this document.

**Part 70 Operating Permit Conditions**

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 Operating Permits.
- (b) Monitoring and related record keeping requirements which assure that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

### **Federal Rule Applicability**

- (a) This source does not involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 for PM<sub>10</sub>:
  - (1) with the potential to emit before controls equal to or greater than the major source threshold for PM<sub>10</sub>,
  - (2) that is subject to an emission limitation or standard for PM<sub>10</sub>, and
  - (3) uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source.

- (b) This source does not involve a pollutant-specific emissions unit as defined in 40 CFR 64.1 for SO<sub>2</sub>:
  - (1) with the potential to emit before controls equal to or greater than the major source threshold for SO<sub>2</sub>,
  - (2) that is subject to an emission limitation or standard for SO<sub>2</sub>, and
  - (3) uses a control device as defined in 40 CFR 64.1 to comply with that emission limitation or standard.

Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source.

- (c) The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated as 326 IAC 12-1-1, apply to the fuel oil-fired boiler, known as B-1A, except when otherwise specified in 40 CFR 60, Subpart Dc.
- (d) The one (1) fuel oil-fired boiler, known as B-1A, rated at 17.8 million British thermal units per hour is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40c, Subpart Dc) because it was installed after the June 9, 1989 applicability date and is rated between ten (10) and one hundred (100) million British thermal units per hour. The SO<sub>2</sub> emissions from fuel oil-fired boiler, known as B-1A, shall not exceed five tenths (0.5) pounds per million British thermal units heat input, or the sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight.
- (e) The requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60 Subpart Dc) are not included in the permit for the three (3) boilers, identified as B-2, B-3 and B-4, because the construction of each of these boilers commenced prior to June 9, 1989.

- (f) The requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60 Subpart Db) are not included in the permit for the three (3) boilers, identified as B-2, B-3 and B-4, because each of these boilers has a capacity of less than one hundred (100) million British thermal units per hour.
- (g) The requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60 Subpart Da) are not included in the permit for the three (3) boilers, identified as B-2, B-3 and B-4, because each of these boilers has a capacity of less than two hundred and fifty (250) million British thermal units per hour and is not an electric utility steam generating unit.
- (h) The requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60 Subpart D) are not included in the permit for the three (3) boilers, identified as B-2, B-3 and B-4, because each of these boilers has a capacity of less than two hundred and fifty (250) million British thermal units per hour.
- (i) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Parts 61 and 63) included in the permit for this minor source of HAPs.

The requirements of the NESHAP, Subpart DDDDD are not included in the permit for the four (4) boilers, identified as B-1A, B-2, B-3 and B-4, because the source is not a major source of HAPs.

#### **State Rule Applicability – Entire Source**

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

This source is subject to 326 IAC 2-6 (Emission Reporting) because it is required to have an operating permit pursuant to 326 IAC 2-7, Part 70. In accordance with the compliance schedule in 326 IAC 2-6-3, pursuant to 326 IAC 2-6-3(b)(3), starting in 2006 and every three (3) years thereafter, the Permittee shall submit by July 1 an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

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

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

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### **State Rule Applicability – Individual Facilities**

##### 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

- (a) This source, which is not one of the 28 listed major source categories, is currently a major PSD source, and it has been since the applicability date of the PSD rules in 1977

due to a pre-existing potential to emit SO<sub>2</sub> that was greater than two hundred and fifty (250) tons per year. The potential to emit SO<sub>2</sub> from the initial coal boiler, identified as B-4, installed in 1967, exceeded two hundred and fifty (250) tons per year.

In addition, the construction permit for the #2 fuel oil-fired boiler, identified as B-3, was also issued prior to the August 1977 applicability date of the PSD rules.

Therefore, the two (2) boilers, identified as B-4 and B-3, made this source an existing major PSD source and both of these boilers were not subject to PSD review.

- (b) The addition of the coal-fired boiler, identified as B-2, installed in December 1988, rated at 51.0 million British thermal units per hour was a minor modification to the existing major PSD source. Pursuant to PC (40) 1635, issued on January 20, 1987 and OP 40-10-92-0050, issued on June 8, 1989, the total coal usage for all boilers at the source was limited to 9,124 tons per twelve (12) month period, based on coal specifications of 3% sulfur and a heat content of 11,000 British thermal units per pound. This limit insured that the net increase in SO<sub>2</sub> emissions due to the addition of the coal-fired boiler, identified as B-2, were less than 40 tons per year.
- (c) The addition of the #2 fuel oil-fired boiler, identified as B-1A, installed in November 2002, rated at 17.8 million British thermal units per hour was a minor modification to the existing major PSD source since the potential to emit all the criteria pollutants was less than the PSD significant levels.

#### 326 IAC 2-4.1-1 (New source toxics control)

The operation of mental institution will emit less than ten (10) tons per year of a single HAP and twenty-five (25) tons per year of a combination of HAPs. Therefore, the requirements of 326 IAC 2-4.1 do not apply.

#### 326 IAC 6-2-3 (Emissions limitations for facilities specified in 326 IAC 6-2-1(c))

- (a) Boiler B-4

Boiler B-4, rated at 31.0 million British thermal units per hour, installed in 1967, was the first boiler at the source. This boiler may have to comply with the particulate matter emission rate specified by the following equation given in 326 IAC 6-2-3(a). The total heat input capacity for the source in 1967 was 31.0 million British thermal units per hour.

$$Pt = (C \times a \times h) / (76.5 \times Q^{0.75} \times N^{0.25})$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/mmBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 million British thermal units per hour heat input.

h = Stack height in feet. If a number of stacks of different heights exist, the average stack height will be computed using a weighted average of stack heights.

$$Pt = (50 \mu\text{g}/\text{m}^3 \times 0.67 \times 40 \text{ ft}) / (76.5 \times 31.0^{0.75} \times 1^{0.25}) = 1.33 \text{ lb PM} / \text{mmBtu}$$

Pursuant to OP 2180-0002-0051, issued on December 19, 1990, and 326 IAC 6-2-3(d), the particulate matter emissions from coal-fired boiler, identified as B-4, constructed in 1967, shall be limited to eight tenths (0.8) pounds per million British thermal units. As shown on Page 3 of 4 of Appendix A, the PM emissions for boiler B-4 are 0.729 pounds per million British thermal units and are therefore in compliance with 326 IAC 6-2-3(d).

(b) Boiler B-3

Boiler B-3, rated at 37.5 million British thermal units per hour, installed in 1977, was the third boiler at the source (Boiler B-1 was constructed in 1968 but removed in 2002). Boiler B-3 may have to comply with the particulate matter emission rate specified by the following equation given in 326 IAC 6-2-3(a). The total heat input capacity for the two (2) boilers, identified as B-4 +B-3 is  $31.0 + 37.5 = 68.5$  million British thermal units per hour.

$$Pt = (C \times a \times h) / (76.5 \times Q^{0.75} \times N^{0.25})$$

where:

Pt = Pounds of particulate matter emitted per million British thermal units (lb/mmBtu) heat input

Q = Total source maximum operating capacity rating in million British thermal units per hour (mmBtu/hr) heat input. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain. This shall equal 50 micrograms per cubic meter for a period not to exceed a sixty (60) minute time period.

N = Number of stacks in fuel burning operation.

a = Plume rise factor which is used to make allowance for less than theoretical plume rise. The value 0.67 shall be used for Q less than or equal to 1,000 million British thermal units per hour heat input.

$h$  = Stack height in feet. If a number of stacks of different heights exist, the average stack height will be computed using a weighted average of stack heights.

$$Pt = (50 \mu\text{g}/\text{m}^3 \times 0.67 \times 64.5) / (76.5 \times 68.5^{0.75} \times 2^{0.25}) = 0.998 \text{ lb PM} / \text{mmBtu}$$

Pursuant to OP 2180-0002-0051, issued on December 19, 1990 and 326 IAC 6-2-3(e) the particulate matter emissions from oil-fired boiler, identified as B-3, constructed in 1977, shall be limited to six tenths (0.6) pounds per million British thermal units. The potential PM emissions on oil for boiler B-3, rated at 37.5 million British thermal units per hour are 2.35 tons per year or 0.014 pounds per million British thermal units and therefore this boiler complies with 326 IAC 6-2-3(e).

326 IAC 6-2-4 (Emission limitations for facilities specified in 326 IAC 6-2-1(d))

(a) Boiler B-2

Boiler B-2, rated at 51.0 million British thermal units per hour, installed after September 21, 1983, was subject to the requirements of this rule in the Part 70 Operating Permit, T 079-7407, issued on February 10, 1999, based on a total source-wide boiler capacity (Q) of 119.5 million British thermal units per hour for boilers, identified as B-2, B-3 & B-4 that limited PM emissions as follows:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

$Pt$  = Pounds of particulate matter emitted per million British thermal units heat input.

$Q$  = Total source maximum operating capacity rating in million British thermal units heat input. The maximum operating capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's operation permit application, except when some lower capacity is contained in the facility's operation permit, in which case, the capacity specified in the operation permit (B-2, B-3 & B-4) (119.5 million British thermal units per hour) shall be used.

$$Pt = \frac{1.09}{119.5^{0.26}} = 0.314 \text{ pounds per million British thermal units.}$$

The potential PM emissions from coal-fired boiler B-2, rated at 51.0 million British thermal units per hour are 0.109 pounds per million British thermal units as shown on Page 3 of 4 of Appendix A. Therefore, boiler B-2 complies with this rule.

(b) Boiler B-1A

Boiler B-1A, rated at 17.8 million British thermal units per hour, installed after September 21, 1983, is subject to the requirements of this rule that limits PM emissions as follows:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where:

Pt = Pounds of particulate matter emitted per million British thermal units heat input.

Q = Total source maximum operating capacity rating in million British thermal units heat input. The maximum operating capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's operation permit application, except when some lower capacity is contained in the facility's operation permit, in which case, the capacity specified in the operation permit (137.3 million British thermal units per hour) shall be used.

$$Pt = \frac{1.09}{137.3^{0.26}} = 0.303 \text{ pounds per million British thermal units.}$$

The potential PM emissions on oil for boiler B-1A, rated at 17.8 million British thermal units per hour are 1.11 tons per year or 0.014 pounds per million British thermal units and therefore this boiler complies with this rule.

#### 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

(a) 326 IAC 7-1.1-2(a)(1) (Sulfur Dioxide Emission Limitations)

Pursuant to 326 IAC 7-1.1-2(a)(1) (SO<sub>2</sub> Emissions Limitations) when coal is burned, the SO<sub>2</sub> emissions from boilers B-2 and B-4, shall each not exceed six and zero-tenths (6.0) pounds per million British thermal units.

Based upon the calculations on Page 3 of Appendix A, the SO<sub>2</sub> emissions from boiler B-2 are 264 pounds per hour which is equivalent to 5.18 pounds per million British units of heat input. Therefore, boiler B-2 is in compliance with 326 IAC 7-1.1-2(a)(1).

Based upon the calculations on Page 3 of Appendix A, the SO<sub>2</sub> emissions from boiler B-4 are 161 pounds per hour which is equivalent to 5.18 pounds per million British thermal units of heat input. Therefore, boiler B-4 is also in compliance with 326 IAC 7-1.1-2(a)(1).

(b) 326 IAC 7-1.1-2(a)(3) (Sulfur Dioxide Emission Limitations)

Pursuant to 326 IAC 7-1.1-2(a)(3) (SO<sub>2</sub> Emissions Limitations) when #2 fuel oil is burned, the SO<sub>2</sub> emissions from emission units B-1A and B-3 shall not exceed 0.5 pounds per million British thermal units of heat input for #2 fuel oil combustion.

Based upon the calculations on Page 3 of Appendix A the SO<sub>2</sub> emissions from boiler B-1A are 9.04 pounds per hour which is equivalent to 0.5 pounds per million British thermal units of heat input. Therefore, boiler B-1A is in compliance with 326 IAC 7-1.1-2(a)(3).

Based upon the calculations on Page 3 of Appendix A the SO<sub>2</sub> emissions from boiler B-3 are 19.0 pounds per hour which is equivalent to 0.5 pounds per million British thermal units of heat input. Therefore, boiler B-3 is in compliance with 326 IAC 7-1.1-2(a)(3).

#### State Rule Applicability – Insignificant Activities

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the brazing equipment, cutting torches, soldering equipment, welding equipment as well as the grinding and machining operations shall each not exceed the pounds per hour limitation when operating at a specified process weight rate calculated by:

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

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

### Testing Requirements

Stack testing was not required by the original Part 70 Operating Permit and no new tests are proposed in this renewal.

The boiler emissions are all based upon standard AP-42 emission factors and only boiler B-2 has been given credit for any control. The PM and PM<sub>10</sub> control efficiencies for the multiple cyclone particulate control on boiler B-2 have been conservatively assumed to be only 85% and 60% respectively.

### Compliance Requirements

Permits issued under 326 IAC 2-7 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, OAQ in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit 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 Section D of the permit. 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:

- (a) The overfeed stoker chain grate coal-fired boiler, identified as B-2, has applicable compliance monitoring conditions as specified below:
  - (1) Visible emission notations of the boiler stack exhaust S-B-1/2 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

For a cyclone controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Cyclone failure can be indicated by a significant drop in the cyclone's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks, dust traces or triboflows.

These monitoring conditions are necessary because the cyclone for the boiler must operate properly to ensure compliance with 326 IAC 6-2-4, 326 IAC 5-1 and 326 IAC 2-7 (Part 70).

- (b) The overfeed stoker chain grate coal-fired boiler, identified as B-4, has applicable compliance monitoring conditions as specified below:

Visible emission notations of the coal-fired boiler stack exhaust S-B-4 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

These monitoring conditions are necessary because the boiler must operate properly to ensure compliance with 326 IAC 6-2-3, 326 IAC 5-1 and 326 IAC 2-7 (Part 70).

- (c) The #2 fuel oil-fired boiler, identified as B-3, has applicable compliance monitoring conditions as specified below:

Visible emission notations of the oil-fired boiler stack exhaust Stack S-B-3 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. If abnormal emissions are observed, the Permittee shall take reasonable response steps

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

These monitoring conditions are necessary because the boiler must operate properly to ensure compliance with 326 IAC 6-2-3, 326 IAC 5-1 and 326 IAC 2-7 (Part 70).

- (d) The #2 fuel oil-fired boiler, identified as B-1A, has applicable compliance monitoring conditions as specified below:

Visible emission notations of the boiler stack exhaust S-B-1/2 shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

These monitoring conditions are necessary because the boiler must operate properly to ensure compliance with 326 IAC 6-2-4, 326 IAC 5-1 and 326 IAC 2-7 (Part 70).

## **Conclusion**

The operation of this mental institution shall be subject to the conditions of this Part 70 Operating Permit T 079-17768-00002.

Company Name: Muscatatuck Urban Training Center (MUTC)  
 Address, City IN Zip: Highway 50 East, Butlerville, Indiana 47223  
 TV Renewal: T 079-17768  
 Plt ID: 079-00002  
 Reviewer: Frank P. Castelli  
 Application Date: July 23, 2003

**Summary Potential to Emit Before Controls (tons/year)**

Emission Unit	PM	PM-10	VOC	SO2	NOX	CO	HAPs
B-1A & B-3 (Oil)	3.46	3.46	0.588	123	34.6	8.65	0.012
B-2 & B-4 (Coal)	261.9	98.6	0.816	1861	122.4	98	0.123
Subtotal	265	102	1.40	1984	157	107	0.135
Insignificant Activities							
4 Emergency Gen	0.443	0.443	0.506	0.412	6.24	1.34	0
Other Insignif	10	5	1	0	0	0	0.5
Subtotal	10.4	5.44	1.51	0.412	6.24	1.34	0.50
<b>Total</b>	<b>276</b>	<b>108</b>	<b>2.91</b>	<b>1984</b>	<b>163</b>	<b>108</b>	<b>0.635</b>

**Summary Potential to Emit After Controls (tons/year)**

Emission Unit	PM	PM-10	VOC	SO2	NOX	CO	HAPs
B-1A & B-3 (Oil)	3.46	3.46	0.59	122.84	34.60	8.65	0.01
B-2 & B-4 (Coal)	112.0	42.2	0.816	1861	122.4	98	0.123
Subtotal	115	45.7	1.40	1984	157	107	0.135
Insignificant Activities							
4 Emergency Gen	0.443	0.443	0.506	0.412	6.24	1.34	0
Other Insignif	10	5	1	0	0	0	0.5
Subtotal	10.4	5.44	1.51	0.412	6.24	1.34	0.5
<b>Total</b>	<b>126</b>	<b>51.1</b>	<b>2.91</b>	<b>1984</b>	<b>163</b>	<b>108</b>	<b>0.635</b>

**Summary Potential to Emit After Limit (tons/year)**

Emission Unit	PM	PM-10	VOC	SO2	NOX	CO	HAPs
B-1A & B-3 (Oil)	3.46	3.46	0.59	122.84	34.60	8.65	0.01
B-2 & B-4 (Coal)	73.2	27.6	0.228	520	34.2	27.4	0.041
Subtotal	76.7	31.1	0.82	643	69	36	0.053
Insignificant Activities							
4 Emergency Gen	0.443	0.443	0.506	0.412	6.24	1.34	0
Other Insignif	10	5	1	0	0	0	0.5
Subtotal	10.4	5.44	1.51	0.412	6.24	1.34	0.5
<b>Total</b>	<b>87.1</b>	<b>36.5</b>	<b>2.32</b>	<b>643</b>	<b>75.0</b>	<b>37.4</b>	<b>0.553</b>

**Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)  
 #1 and #2 Fuel Oil**

**2 fuel oil boilers**

Boiler B-1A = 17.8 mmBtu/hr

Boiler B-3 = 37.5 mmBtu/hr

Heat Input Capacity  
mmBtu/hr

Potential Throughput  
kgals/year

S = Weight % Sulfur  
0.5

55.3

3460.200

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NOx	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	3.46	123	34.6	0.588	8.65

**Methodology**

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

\*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

See page 2 for HAPs emission calculations.

**Appendix A: Emissions Calculations**  
**Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)**  
**#1 and #2 Fuel Oil**  
**HAPs Emissions**

**Company Name: Muscatatuck Urban Training Center (MUTC)**  
**Address, City IN Zip: Highway 50 East, Butlerville, Indiana 47223**  
**TV Renewal: T 079-17768**  
**Plt ID: 079-00002**  
**Reviewer: Frank P. Castelli**  
**Application Date: July 23, 2003**

HAPs - Metals

Emission Factor in lb/mmBtu	Arsenic 0.000004	Beryllium 0.000003	Cadmium 0.000003	Chromium 0.000003	Lead 0.000009
Potential Emission in tons/yr	0.0010	0.0007	0.0007	0.0007	0.0022

HAPs - Metals (continued)

Emission Factor in lb/mmBtu	Mercury 0.000003	Manganese 0.000006	Nickel 0.000003	Selenium 0.000015	<b>Total</b>
Potential Emission in tons/yr	0.0007	0.0015	0.0007	0.0036	<b>0.012</b>

Methodology

No data was available in AP-42 for organic HAPs.

Potential Emissions (tons/year) = Throughput (mmBtu/hr)\*Emission Factor (lb/mmBtu)\*8,760 hrs/yr / 2,000 lb/ton

**Four (4) emergency diesel generators rated at 150 KW each**

Heat Input Capacity                      Potential Throughput  
Horsepower (hp)                              hp-hr/yr

804.6	402306.6
-------	----------

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	0.443	0.443	0.412	6.24	0.506	1.34

**Methodology**

1 KW = 1.341022 hp                      150 KW =      201.1533 hp

Potential Througput (hp-hr/yr) = hp \* 8760 hr/yr

Emission Factors are from AP42 (Supplement B 10/96), Table 3.3-1

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] \* 8760 hr/yr / (2,000 lb/ton )

Emission (tons/yr) = [Potential Throughput (hp-hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton )

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

Since the 4 generators are emergency generators, only the potential-to-emit is based upon 500 hours of operation per year.

Company Name: Muscatatuck Urban Training Center (MUTC)  
Address, City IN Zip: Highway 50 East, Butlerville, Indiana 47223  
TV Renewal: T 079-17768  
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Reviewer: Frank P. Castelli  
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**Boiler B-2 = 51.0 mmBtu/hr**

with multiple cyclone PM control  
Heat Input Capacity  
mmBtu/hr

**Overfeed Stoker Chain Grate**

Heat Content of Coal  
Btu/lb of Coal

Potential Throughput  
tons/year  
20,307

Weight %  
Sulfur in Fuel  
S = 3.0 %

Emission Factor in lb/ton	Pollutant					
	PM*	PM10*	SO2 (38S)	NOx	VOC	CO
	16.0	6.04	114.0	7.5	0.05	6.00
Potential Emission in tons/yr	163	61.3	1158	76.2	0.508	60.9
With PM control: 85.00% efficiency	24.4	24.53				
With PM-10 control: 60.00%						
Potential Emission in lbs/mmBtu	0.729		5.18			
With PM control: 85.00% efficiency	0.109					

**Boiler B-4 = 31.0 mmBtu/hr**

Heat Input Capacity  
mmBtu/hr  
31.0

**Overfeed Stoker Chain Grate**

Heat Content of Coal  
Btu/lb of Coal  
11,000

Potential Throughput  
tons/year  
12,344

Weight %  
Sulfur in Fuel  
S = 3.0 %

Emission Factor in lb/ton	Pollutant					
	PM*	PM10*	SO2 (38S)	NOx	VOC	CO
	16.0	6.04	114.0	7.5	0.05	6.00
Potential Emission in tons/yr	99.0	37.3	704	46.3	0.309	37.0
With PM control: 0.00% efficiency	99.0	37.3				
Potential Emission in lbs/mmBtu	0.729		5.18			
With PM control: 0.00% efficiency	0.729					

**Assume Worst Case Uncontrolled For Potential to Emit with Limit**

**Boilers B-2 and B-4 Summary**

**Chain Grate**

Heat Input Capacity  
mmBtu/hr  
82.0

Heat Content of Coal  
Btu/lb of Coal  
11,000

Potential Throughput  
tons/year  
32,651

Limited Throughput  
tons/year  
9,124

Weight %  
Sulfur in Fuel  
S = 3.0 %

Emission Factor in lb/ton	Pollutant					
	PM*	PM10*	SO2 (38S)	NOx	VOC	CO
	16.0	6.04	114.0	7.5	0.05	6.00
Potential Emission in tons/yr	261.9	98.6	1861.1	122.4	0.816	98.0
Potential Emission After Controls in tons/yr	123.4	61.8	1861.1	122.4	0.816	98.0
Potential Emission After Limit in tons/yr	73.2	27.6	520.1	34.2	0.228	27.4

\*The PM emission factor is filterable PM only. The PM10 emission factor is filterable and condensable PM10 combined.

VOC emission factor is from Table 1.1-19 (Total non-methane organic carbon).

Potential Throughput (tons/year) = Heat Input Capacity (MMBtu/hr) x 10<sup>6</sup> Btu/MMBtu / Heat Content of Coal (Btu/lb) / 2000 lb/ton x 8,760 hrs/yr

Emission Factors from AP-42, Chapter 1.1 for industrial overfeed stoker SCC 1-02-002-05/25 (Supplement E, 9/98)

Additional emission factors for commercial/institutional and electric generation boilers are available in AP-42, Chapter 1.1.

HAPs emission factors are available in AP-42, Chapter 1.1.

Emission (tons/yr) = Throughput tons per year x Emission Factor (lb/ton) / 2,000 lb/ton

Emissions (lbs/MMBtu) = 10<sup>6</sup> Btu/MMBtu / Heat Content of Coal (Btu/lb) / 2000 lb/ton x Emission Factor (lb/ton)

As per T 079-7407 heat content of coal set to 11,000 Btus per pound  
As per T 079-7407 Sulfur content of coal limited to 3.0%

Company Name: Muscatatuck Urban Training Center (MUTC)  
Address, City IN Zip: Highway 50 East, Butlerville, Indiana 47223  
TV Renewal: T 079-17768  
Plt ID: 079-00002  
Reviewer: Frank P. Castelli  
Application Date: July 23, 2003

Boiler B-2 = 51.0 mmBtu/hr  
Boiler B-4 = 31.0 mmBtu/hr

Limited Throughput 9124 tons/yr

Potential Throughput tons/year	HAP	HAP Emission Factors (lbs/ton)	Potential HAP Emissions (tons/yr)	Controlled HAP Emissions (tons/yr)	Limited & Controlled HAP Emissions (tons/yr)	HAP	HAP Emission Factor lbs/ton	Potential HAP Emissions (tons/yr)	Controlled HAP Emissions (tons/yr)	Limited & Controlled HAP Emissions (tons/yr)
20,307	Antimony	1.8E-05	0.00018	0.000027	0.000012	Dimethyl Sulfate	4.8E-05	0.00049	0.000487	0.000218976
	Arsenic	4.1E-04	0.00416	0.004163	0.000834	Ethyl Benzene	9.4E-05	0.00095	0.000954	0.000428828
	Beryllium	2.1E-05	0.00021	0.000032	0.000014	Ethyl Chloride	4.2E-05	0.00043	0.000426	0.000191604
	Cadmium	5.1E-05	0.00052	0.000078	0.000035	Ethylene Dichloride	4.0E-05	0.00041	0.000406	0.000182480
	Chromium	2.6E-04	0.00264	0.000396	0.000178	Ethylene Dibromide	1.2E-06	0.00001	0.000012	0.000005474
	Cobalt	1.0E-04	0.00102	0.000152	0.000068	Formaldehyde	2.4E-04	0.00244	0.002437	0.001094880
	Lead	4.2E-04	0.00426	0.000640	0.000287	Hexane	6.7E-05	0.00068	0.000680	0.000305654
	Manganese	4.9E-04	0.00498	0.000746	0.000335	Isophorone	5.8E-05	0.00059	0.000589	0.000264596
	Mercury	8.3E-05	0.00084	0.000126	0.000057	Methyl Bromide	1.6E-04	0.00162	0.001625	0.000729920
	Nickel	2.8E-04	0.00284	0.000426	0.000192	Methyl Chloride	5.3E-04	0.00538	0.005381	0.002417860
	Selenium	1.3E-03	0.01320	0.001980	0.000890	MEK	3.9E-04	0.00396	0.003960	0.001779180
	Biphenyl	1.7E-06	0.00002	0.000017	0.000008	Methyl Hydrazine	1.7E-04	0.00173	0.001726	0.000775540
	Naphthalene	1.3E-05	0.00013	0.000132	0.000059	Methyl Methacrylate	2.0E-05	0.00020	0.000203	0.000091240
	Acetaldehyde	5.7E-04	0.00579	0.005788	0.002600	Methyl Tert Butyl Ether	3.5E-05	0.00036	0.000355	0.000159670
	Acetophenone	1.5E-05	0.00015	0.000152	0.000068	Methylene Chloride	2.9E-04	0.00294	0.002945	0.001322980
	Acrolein	2.9E-04	0.00294	0.002945	0.001323	Phenol	1.6E-05	0.00016	0.000162	0.000072992
	Benzene	1.3E-03	0.01320	0.013200	0.005931	Propionaldehyde	3.8E-04	0.00386	0.003858	0.001733560
	Benzyl Chloride	7.0E-04	0.00711	0.007108	0.003193	Tetra Chloroethylene	4.3E-05	0.00044	0.000437	0.000196166
	DEHP	7.3E-05	0.00074	0.000741	0.000333	Toluene	2.4E-04	0.00244	0.002437	0.001094880
	Bromoform	3.9E-05	0.00040	0.000396	0.000178	1,1,1-Trichloroethane	2.0E-05	0.00020	0.000203	0.000091240
	Carbon Disulfide	1.3E-04	0.00132	0.001320	0.000593	Styrene	2.5E-05	0.00025	0.000254	0.000114050
	Chlorobenzene	2.2E-05	0.00022	0.000223	0.000100	Xylene	3.7E-05	0.00038	0.000376	0.000168794
	Chloroform	5.9E-05	0.00060	0.000599	0.000269	Vinyl Acetate	7.6E-06	0.00008	0.000077	0.000034671
	Cumene	5.3E-06	0.00005	0.000054	0.000024					
	Cyanide	2.5E-03	0.02538	0.025384	0.011405					
						<b>Total HAPs</b>		<b>0.123</b>	<b>0.097</b>	<b>0.042</b>