INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

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

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TO: Interested Parties / Applicant

DATE: April 19, 2006

RE: Panhandle Eastern Pipe Line / 121-16432-00008

FROM: Paul Dubenetzky
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 impractible 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.

Enclosures
FNTVOP.dot 1/10/05

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PART 70 OPERATING PERMIT RENEWAL
OFFICE OF AIR QUALITY

Panhandle Eastern Pipe Line Company - Montezuma Compressor Station

2623 N. 600W
Montezuma, Indiana 47862

(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 121-16432-00008	
Original signed byNisha Sizemore for: Paul Dubenetzky, Assistant Commissioner Office of Air Quality	Issuance Date: April 19, 2006 Expiration Date: April 19, 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 pipeline compressor station.

Responsible Official:	Vice President of Operations, Midwest Division
Source Address:	2623 N. 600W, Montezuma, Indiana 47862
Mailing Address:	P.O. Box 4967, Houston, Texas 77210-4967
General Source Phone Number:	(800)382-5544
SIC Code:	4922
County Location:	Parke
Source Location Status:	Attainment for all criteria pollutants Major Source, under PSD Rules Major Source, Section 112 of the Clean Air Act

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) Six (6) natural gas-fired, 4-stroke rich burn, reciprocating internal combustion engine compressors, identified as 1302 through 1307, each installed prior to 1945, exhausting to Stacks S1302 through S1307, heat input capacity: 12.09 million British thermal units per hour each, heat output capacity: 1,300 horsepower each.

(b) One (1) natural gas-fired, 2-stroke lean burn, reciprocating internal combustion engine compressor, identified as 1308, installed in 1947, exhausting to Stack S1308, heat input capacity: 16.0 million British thermal units per hour, heat output capacity: 1,600 horsepower.

(c) One (1) natural gas-fired, 2-stroke lean burn, reciprocating internal combustion engine compressor, identified as 1309, installed in 1956, exhausting to Stack S1309, heat input capacity: 16.0 million British thermal units per hour, heat output capacity: 2,000 horsepower.

(d) Three (3) natural gas-fired, 4-stroke lean burn, reciprocating internal combustion engine compressors, identified as 1310 through 1312, each installed in 1956, exhausting to Stacks S1310 through S1312, heat input capacity: 15.0 million British thermal units per hour, each, heat output capacity: 2,000 horsepower, each.

(e) Two (2) natural gas-fired, 4-stroke lean burn, reciprocating internal combustion engine compressors, identified as 1313 and 1314, each installed in 1963, exhausting to Stacks S1313 and S1314, heat input capacity: 18.9 million British thermal units per hour, each, heat output capacity: 3,000 horsepower, each.

(f) One (1) natural gas-fired, 2-stroke lean burn, reciprocating internal combustion engine compressor, identified as 1315, installed in 1970, exhausting to Stack S1315, heat input capacity: 27.6 million British thermal units per hour, heat output capacity: 4,000 horsepower.

(g) One (1) natural gas-fired turbine driven centrifugal compressor, identified as 1316, installed in 1971, exhausting to Stack S1316, heat input capacity: 79.5 million British thermal units per hour, heat output capacity: 10,000 horsepower.

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 does not currently have any insignificant activities, as defined in 326 IAC 2-7-1 (21) that have applicable requirements.

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

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

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

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

SECTION B GENERAL CONDITIONS

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

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

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

(a) This permit, T 121-16432-00008, 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 in letter form 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 and implement Preventive Maintenance Plans (PMPs) for the source as described in 326 IAC 1-6-3. At a minimum the PMPs shall include:

(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 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.

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 121-16432-00008 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)]

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)]

(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]

(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)]

(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]

(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)]

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

(a) No Part 70 permit revision 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]

(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.

(f) This condition does not apply to emission trades of SO_2 or NO_X under 326 IAC 21 or 326 IAC 10-4.

B.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 Operation of Equipment [326 IAC 2-7-6(6)]

Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit(s) vented to the control equipment is in operation.

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]

(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]

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)]

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 May 28, 1996.

(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]

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 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.15 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(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the

following requirements:

(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 post-marked 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.16 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.17 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 other than an Electric Utility Steam Generating 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.18 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with 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)]: 4-Stroke Rich Burn RICEs

(a) Six (6) natural gas-fired, 4-stroke rich burn, reciprocating internal combustion engine compressors, identified as 1302 through 1307, each installed prior to 1945, exhausting to Stacks S1302 through S1307, heat input capacity: 12.09 million British thermal units per hour each, heat output capacity: 1,300 horsepower each.

(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 Existing Limited Use Stationary Reciprocating Internal Combustion Engines (RICE) [40 CFR 63.6675] [326 IAC 20-82-1]

(a) In order to define the six (6) natural gas-fired, 4-stroke rich burn RICEs, identified as 1302 through 1307, as limited use stationary RICEs in accordance with 40 CFR 63.6675, Panhandle Eastern Pipe Line Company - Montezuma Compressor Station has accepted the following limitation:

Each of the six (6) engines, identified as 1302 through 1307, shall be limited to less than one hundred (100) hours per twelve (12) consecutive month period with compliance determined at the end of each month.

(b) Pursuant to 40 CFR 63.6590(b)(3), existing limited use stationary RICEs do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ and 40 CFR 63, Subpart A.

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

D.1.2 Record Keeping Requirements

(a) To document compliance with Condition D.1.1, the Permittee shall maintain monthly records of the number hours of operation from each of the six (6) RICEs, identified as 1302 through 1307.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.3 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.1 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).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Panhandle Eastern Pipe Line Company - Montezuma Compressor Station
Source Address: 2623 N. 600W, Montezuma, Indiana 47862
Mailing Address: P.O. Box 4967, Houston, Texas 77210-4967
Part 70 Permit No.: T 121-16432-00008

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: Panhandle Eastern Pipe Line Company - Montezuma Compressor Station
Source Address: 2623 N. 600W, Montezuma, Indiana 47862
Mailing Address: P.O. Box 4967, Houston, Texas 77210-4967
Part 70 Permit No.: T 121-16432-00008

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

☐	This is an emergency as defined in 326 IAC 2-7-1(12)	
	X	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
	X	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_2, VOC, NO_X, CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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: Panhandle Eastern Pipe Line Company - Montezuma Compressor Station
Source Address: 2623 N. 600W, Montezuma, Indiana 47862
Mailing Address: P.O. Box 4967, Houston, Texas 77210-4967
Part 70 Permit No.: T 121-16432-00008
Facilities: Engines 1302 through 1307
Parameter: Hours of operation
Limit: Each RICE is limited to less than one hundred (100) hours per twelve (12) consecutive month period with compliance determined at the end of each month.

ENGINE: _____ YEAR: _____

Month	Hours of Operation	Hours of Operation	Hours of Operation
	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: Panhandle Eastern Pipe Line Company - Montezuma Compressor Station
Source Address: 12623 N. 600W, Montezuma, Indiana 47862
Mailing Address: P.O. Box 4967, Houston, Texas 77210-4967
Part 70 Permit No.: T 121-16432-00008

Months: _____ **to** _____ **Year:** _____

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".

☐ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

☐ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

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

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

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Background and Description

Source Name:	**Panhandle Eastern Pipe Line Company - Montezuma Compressor Station**
Source Location:	**2623 N. 600W, Montezuma, Indiana 47862**
County:	**Parke**
SIC Code:	**4922**
Operation Permit No.:	**T 121-5945-00008**
Operation Permit Issuance Date:	**September 25, 1998**
Permit Renewal No.:	**T 121-16432-00008**
Permit Reviewer:	**Michael S. Schaffer**

The Office of Air Quality (OAQ) has reviewed a Part 70 Operating Permit Renewal application from Panhandle Eastern Pipe Line Company relating to the operation of a stationary pipeline compressor station.

Permitted Emission Units and Pollution Control Equipment

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

(a) Six (6) natural gas-fired, 4-stroke rich burn, reciprocating internal combustion engine compressors, identified as 1302 through 1307, each installed prior to 1945, exhausting to Stacks S1302 through S1307, heat input capacity: 12.09 million British thermal units per hour each, heat output capacity: 1,300 horsepower each.

(b) One (1) natural gas-fired, 2-stroke lean burn, reciprocating internal combustion engine compressor, identified as 1308, installed in 1947, exhausting to Stack S1308, heat input capacity: 16.0 million British thermal units per hour, heat output capacity: 1,600 horse-power.

(c) One (1) natural gas-fired, 2-stroke lean burn, reciprocating internal combustion engine compressor, identified as 1309, installed in 1956, exhausting to Stack S1309, heat input capacity: 16.0 million British thermal units per hour, heat output capacity: 2,000 horse-power.

(d) Three (3) natural gas-fired, 4-stroke lean burn, reciprocating internal combustion engine compressors, identified as 1310 through 1312, each installed in 1956, exhausting to Stacks S1310 through S1312, heat input capacity: 15.0 million British thermal units per hour, each, heat output capacity: 2,000 horsepower, each.

(e) Two (2) natural gas-fired, 4-stroke lean burn, reciprocating internal combustion engine compressors, identified as 1313 and 1314, each installed in 1963, exhausting to Stacks S1313 and S1314, heat input capacity: 18.9 million British thermal units per hour, each, heat output capacity: 3,000 horsepower, each.

(f) One (1) natural gas-fired, 2-stroke lean burn, reciprocating internal combustion engine compressor, identified as 1315, installed in 1970, exhausting to Stack S1315, heat input capacity: 27.6 million British thermal units per hour, heat output capacity: 4,000 horse-power.

(g) One (1) natural gas-fired turbine driven centrifugal compressor, identified as 1316, installed in 1971, exhausting to Stack S1316, heat input capacity: 79.5 million British thermal units per hour, heat output capacity: 10,000 horsepower.

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) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) British thermal units per hour, with a total heat input capacity of 7.012 million British thermal units per hour, consisting of:

(1) Two (2) natural gas-fired forced air furnaces, identified as F-1 and F-4, installed in 2002, exhausting to Stacks F-1 and F-4, heat input capacity: 0.135 million British thermal units per hour, each.

(2) Two (2) natural gas-fired forced air furnaces, identified as F-2 and F-3, installed in 2001, exhausting to Stacks F-2 and F-3 respectively, heat input capacity: 0.092 million British thermal units per hour, each.

(3) Two (2) natural gas-fired forced air furnaces, identified as F-5 and F-6, installed in 2003, exhausting to Stacks F-5 and F-6 respectively, heat input capacity: 0.088 million British thermal units per hour, each.

(4) Two (2) natural gas-fired forced air furnaces, identified as F-7 and F-10, installed in 1998 and 1990 respectively, exhausting to Stacks F-7 and F-10, heat input capacity: 0.092 million British thermal unit per hour, each.

(5) One (1) natural gas-fired forced air furnace, identified as F-8, installed in 1998, exhausting to Stack F-8, heat input capacity: 0.069 million British thermal units per hour.

(6) One (1) natural gas-fired forced air furnace, identified as F-9, installed in 1997, exhausting to Stack F-9, heat input capacity: 0.044 million British thermal units per hour.

(7) One (1) natural gas-fired forced air furnace, identified as F-11, installed in 1990, exhausting to Stack F-11, heat input capacity: 0.115 million British thermal units per hour.

(8) One (1) natural gas-fired jacket water heater, identified as H-1, installed in 1986, exhausting to Stack H-1, heat input capacity: 3.00 million British thermal units per hour.

(9) One (1) natural gas-fired jacket water heater, identified as H-2, installed in 1964, exhausting to Stack H-2, heat input capacity: 0.500 million British thermal units per hour.

(10) Three (3) natural gas-fired heaters, identified as H-3 through H-4, installed in 1970, exhausting to Stacks H-3 through H-5 respectively, heat input capacity: 0.225 million British thermal units per hour each.

(11) One (1) natural gas-fired heater, identified as H-6, installed in 1970, exhausting to Stack H-6, heat input capacity: 0.100 million British thermal units per hour.

(12) Two (2) natural gas-fired heaters, identified as H-9 and H-10, installed in 1974, exhausting to Stacks H-9 and H-10 respectively, heat input capacity: 0.165 million British thermal units per hour each.

(13) One (1) natural gas-fired heater, identified as H-11, installed in 1970, exhausting to Stack H-11, heat input capacity: 0.165 million British thermal units per hour.

(14) Two (2) natural gas-fired jacket heaters, identified as H-12 and H-13, installed in 1970, exhausting to Stacks H-12 and H-13 respectively, heat input capacity: 0.250 and 0.450 million British thermal units per hour, respectively.

(15) One (1) natural gas-fired jacket heater, identified as H-14, installed in 1970, exhausting to Stack H-14, heat input capacity: 0.500 million British thermal units per hour.

(b) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons, consisting of:

Two (2) waste oil tanks, identified as T-14 and T-15, each installed in 1997, capacity: 500 gallons, each.

(c) Vessels storing lubricating oil, hydraulic oils, machining oils, and machining fluids, consisting of:

(1) Three (3) lube oil tanks, identified as T-1, T-5 and T-6, each installed in 1956, capacity: 6,000, 100 and 1,000, gallons, respectively.

(2) One (1) lube oil tank, identified as T-2, installed in 1936, capacity: 5,000 gallons.

(3) Two (2) lube oil tanks, identified as T-7 and T-9, each installed in 1962, capacity: 2,000 and 6,000 gallons, respectively.

(4) One (1) lube oil tank, identified as T-10, installed in 1937, capacity: 1,000 gallons.

(5) One (1) lube oil (drain) tank, identified as T-17, installed in 1986, capacity: 3,000 gallons.

(6) One (1) glycol tank, identified as T-3, installed in 1932, capacity: 5,000 gallons.

(7) One (1) glycol tank, identified as T-18, installed in 1970, capacity: 1,000 gallons.

(8) Two (2) glycol tanks, identified as T-8 and T-16, installed in 1962 and 1986, respectively, capacity: 2,000 gallons, each.

(9) Two (2) packing drain tanks, identified as T-13 and T-23, each installed in 1997, capacity: 100 gallons, each.

(d) Emergency generators as follows:

One (1) natural gas-fired, 4-stroke lean burn, reciprocating internal combustion engine, identified as Emergency Generator, installed in 1963, heat input capacity: 3.82 million British thermal units per hour, heat output capacity: Less than 16,000 horsepower.

(e) Other activities or categories not previously identified with emissions equal to or less than the insignificant thresholds of five (5) pounds of PM per hour and/or less than fifteen (15) pounds VOC per day, consisting of:

(1) One (1) pipeline liquids tank, identified as T-24, installed in 2006, capacity: 2,000 gallons.

(2) One (1) wastewater tank, identified as T-4, installed in 1991, capacity: 6,300 gallons.

(3) Two (2) wastewater tanks, identified as T-20 and T-21, each installed in 1997, capacity: 10,000 gallons, each.

(4) One (1) methanol tank, identified as T-22, installed in 1998, capacity: 2,000 gallons.

(5) One (1) self enclosed blasting unit, identified as BB-1, installed in 1989, capacity: 1,265 pounds of glass beads per hour.

(6) Fugitive pipeline components, identified as FUG-1, consisting of valves, pump seals, compressor seals, pressure relief seals, flanges, and other fittings.

Existing Approvals

The source has been operating under the previous Part 70 Operating Permit 121-5945-00008 issued on September 25, 1998, and the following amendments and modifications:

(a) First Administrative Amendment 121-10346-00008, issued on March 8, 1999;

(b) First Reopening 121-13443-00008, issued on December 19, 2001;

(c) First Significant Permit Modification 121-18609-00008, issued on April 5, 2004;

(d) Second Administrative Amendment 121-21313-00008, issued on August 5, 2005; and

(e) Second Significant Permit Modification 121-21855-00008, issued on February 8, 2006.

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.

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 application for the purposes of this review was received on November 4, 2002, with additional information received on October 28, 2004, September 19, 2005, and February 6, 2006.

Emission Calculations

See Pages 1 through 10 of 10 in 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 September 25, 1998. 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.

	Potential To Emit (tons/yr)						
Process/Emission Unit	PM	PM_{10}	SO_2	VOC	CO	NO_x	HAPs
4 - Stroke Rich Burn RICEs (Engines 1302 -1307)	0.036	0.034	0.002	0.258	13.5	12.9	Single 0.200 Total 0.268
2 - Stroke Lean Burn RICEs (Engines 1308, 1309, and 1315)	2.59	10.0	0.153	27.1	64.8	1,181	Single 14.4 Total 20.3
4-Stroke Lean Burn RICEs (Engines 1310 - 1314)	3.59	0.038	0.177	75.3	151	2,779	Single 19.1 Total 24.9
Combustion Turbine (Turbine 1316)	2.30	2.30	1.18	0.731	17.5	285	Single 0.247 Total 0.292
Insignificant Abrasive Blasting (BB-1)	1.51	1.51	-	-	-	-	-

	Potential To Emit (tons/yr)						
Process/Emission Unit	PM	PM_{10}	SO_2	VOC	CO	NO_x	HAPs
Insignificant Natural Gas Combustion (Excluding Emergency Generator)	0.058	0.233	0.018	0.169	258	3.07	Single 0.055 Total 0.068
Emergency Generator	0.009	0.0001	0.001	0.113	0.532	3.90	Single 0.050 Total 0.066
Fugitive Emissions	-	-	-	0.499	-	-	-
Total Emissions	10.1	14.1	1.53	104	250	4,265	Single >10 Total > 25

Note that as part of this renewal, the source has elected to accept a limit of no more than 100 hours of operation per twelve consecutive month period with compliance determined at the end of each month for each 4-cycle rich burn RICE. See the Federal Rule Applicability Section of this document for further details

(a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of NO_X and CO are equal to or greater than one hundred (100) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination of HAPs is equal to or greater than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(c) 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 2003 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	3.00
PM_{10}	3.00
SO_2	3.00
VOC	39.0
CO	131

Pollutant	Actual Emissions (tons/year)
NO_x	2,330
Lead	-

County Attainment Status

The source is located in Parke County.

Pollutant	Status
$PM_{2.5}$	attainment
PM_{10}	attainment
SO_2	attainment
NO_2	attainment
1-Hour Ozone	attainment
8-Hour Ozone	attainment
CO	attainment
Lead	attainment

(a) Volatile organic compounds (VOC) and nitrogen oxides (NO_X) 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_X emissions are considered when evaluating the rule applicability relating to ozone. Parke County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_X 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) Parke County has been classified as unclassifiable or attainment for $PM_{2.5}$. U.S. EPA has not yet established the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 for $PM_{2.5}$ emissions. Therefore, until the U.S. EPA adopts specific provisions for PSD review for $PM_{2.5}$ emissions, it has directed states to regulate PM_{10} emissions as a surrogate for $PM_{2.5}$ emissions. See the State Rule Applicability for the source section.

(c) Parke County has been classified as attainment or unclassifiable in Indiana for PM_{10}, SO_2, NO_2, CO and lead. 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.

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 involve pollutant-specific emission units as defined in 40 CFR 64.1 for NO_X with the potential to emit before controls equal to or greater than the major source threshold for NO_X. However, none of the units are subject to an emission limitation or standard for NO_X and none use a control device as defined in 40 CFR 64.1. Therefore, the requirements of 40 CFR Part 64, Compliance Assurance Monitoring, are not applicable to this source.

(b) The requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60 Subparts K, Ka and Kb (NSPSs for Volatile Organic Liquid Storage Vessels)) are not included in the permit for the twenty-one (1) (21) storage tanks, identified as Tanks T-1 through T-10, T-13 through T-18 and T-20 through T-24 because the capacity of each storage tank is less than 75 cubic meters (19,812.9 gallons).

(c) The requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60.330, Subpart GG (NSPS for Stationary Gas Turbines)), are not included in this permit because the one (1) natural gas-fired turbine driven centrifugal compressor, identified as 1316, was constructed prior to October 3, 1977.

(d) The requirements of the New Source Performance Standard, 326 IAC 12 (40 CFR 60.630, Subpart KKK (NSPS for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants)), are not included in this permit because the compressor station is not located at a natural gas processing plant. Therefore, pursuant to 40 CFR 60.630(e), it is exempt from this rule.

(e) This requirements of the National Emission Standard for Hazardous Air Pollutants, 326 IAC 20 (40 CFR 63.760, Subpart HH (NESHAP for Oil and Natural Gas Production Facilities)), are not included in this permit because the compressor station is part of the natural gas transmission and the compressors are not located at a natural gas processing plant.

(f) The requirements of National Emission Standard for Hazardous Air Pollutants, 326 IAC 20 (40 CFR 63.1270, Subpart HHH (NESHAP for Natural Gas Transmission and Storage Facilities)), are not included in this permit because this source does not contain a glycol dehydration unit. Pursuant to 40 CFR 60.1270(b), an affected source is a glycol dehydration unit. Pursuant to 40 CFR 60.1270(c), a facility that does not contain an affected source is not subject to the requirements of this rule.

(g) The requirements of the National Emission Standard for Hazardous Air Pollutants, 326 IAC 20 (40 CFR 63.2330, Subpart EEEE (NESHAP for Organic Liquid Distribution)) are not included in this permit. Pursuant to 40 CFR 63.2334(c)(2), organic liquid distribution operations do not include the activities and equipment, including product loading racks, used to process, store, or transfer organic liquids at natural gas transmission and storage facilities, as the term “facility” is defined in 40 CFR 63.1271 of Subpart HHH. This source is considered a natural gas transmission facility as defined in 40 CFR 63.1271.

(h) The requirements of the National Emission Standard for Hazardous Air Pollutants, 326 IAC 20 (40 CFR 63.6085, Subpart YYYY (NESHAP for Stationary Combustion Turbines), are not included in this permit because the one (1) natural gas-fired turbine driven centrifugal compressor, identified as 1316, was constructed prior to January 14, 2003. The unit is a stationary combustion turbine, as defined by 40 CFR 63.6175, at a major

source of HAPs. However, pursuant to 40 CFR 63.6590(b)(4), existing combustion turbines do not have to meet the requirements of 40 CFR 63, Subpart YYYY and 40 CFR 63, Subpart A.

(i) The requirements of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ are not included in the permit for the six (6) existing 4-stroke lean burn engines, identified as 1310 though 1314 and Emergency Generator and the three (3) existing 2-stroke lean burn engines, identified as 1308, 1309, and 1315. The units are existing spark ignition 4-stroke and 2-stroke reciprocating internal combustion engines, as defined by 40 CFR 63.6675, at a major source of HAPs. However, pursuant to 40 CFR 63.6590(b)(3), existing spark ignition four-stroke and two-stroke reciprocating internal combustion engines do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ and 40 CFR 63, Subpart A.

In addition, the requirements of the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), 40 CFR 63, Subpart ZZZZ are not included in the permit for the six (6) existing 4-stroke rich burn engines, identified as 1302 through 1307. As part of this renewal, this source has elected to limit the hours of operation from each 4-stroke rich burn engine to less than 100 hours per twelve (12) consecutive month period with compliance determined at the end of each month. By accepting the limitations on the hours of operation from Engines 1302 - 1307, they will be redefined as limited stationary use RICEs as stated in 40 CFR 63.6675. Pursuant to 40 CFR 63.6590(b)(3), existing limited use stationary RICEs do not have to meet the requirements of 40 CFR 63, Subpart ZZZZ and 40 CFR 63, Subpart A.

State Rule Applicability – Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration)

This source has a potential to emit more that is more than 250 tons per year of NO_X and CO. This source was constructed prior to August 7, 1977. Therefore, PSD review was not required for this major 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, an emission statement must be submitted by July 1. 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 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

This source was constructed prior to July 27, 1997. Therefore, the requirements of 326 IAC 2-4.1-1 are not applicable.

326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)

Pursuant to 326 IAC 6-3-1(a)(14), the one (1) self-enclosed bead blaster, identified as BB-1, is not subject to requirements of 326 IAC 6-3 since the blaster has a potential to emit which is less than 0.551 pounds of PM per hour.

326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)

The potential SO_2 emissions from the facilities at this source are each less than ten (10) pounds per hour and twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 7-1.1 are not applicable.

326 IAC 8-1-6 (New facilities; General reduction requirements)

The significant emission units at this source were constructed prior to January 1, 1980. Each insignificant emission unit that the source added after January 1, 1980 has a potential to emit VOC that is less than twenty-five (25) tons per year. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

The peteroleum storage tanks, identified as T-14 and T-15, each have a storage capacity that is less than 39,000 gallons. Therefore, the requirements of 326 IAC 8-4-3 are not applicable.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

The storage vessels at this source do not store volatile organic liquids in Clark, Floyd, Lake, or Porter Counties. Therefore, the requirements of 326 IAC 8-9 are not applicable.

326 IAC 9-1 (Carbon Monoxide Emission Limits)

This source commenced operation prior to March 21, 1972. Therefore, the requirements of 326 IAC 9-1 are not applicable.

326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)

This source is not located in Clark or Floyd County. Therefore, the requirements of 326 IAC 10-1 are not applicable.

326 IAC 10-4 (Nitrogen Oxides Budget Trading Program)

The engines and turbine at this source commenced operation prior to January 1, 1997 and have heat input capacities less than 250 million British thermal units per hour each. Therefore, pursuant to 326 IAC 10-4-2(27), the units at this source are not large affected units, and the requirements of 326 IAC 10-4 are not applicable.

Testing Requirements

There are still no testing requirements specifically applicable to this source since there are no emission limits that apply to the combustion units at this source, all the combustion units at this source are fired with natural gas, and each significant combustion unit was constructed prior to August 7, 1977.

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 approporiate corrective actions within a specific time period.

There are no compliance monitoring requirements specifically applicable to RICEs and turbine at this time.

Conclusion

The operation of this pipeline compressor station shall be subject to the conditions of this Part 70 Operating Permit T 003-16432-00045.

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas 4-Stroke Rich Burn

Company Name: Panhandle Eastern Pipeline Company - Montezuma Compressor Station
Address City IN Zip: 2623 N. 600W, Montezuma, Indiana 47862
Permit Number: T 121-16432
Plt ID: 121-00008
Reviewer: Michael S. Schaffer
Application Date: November 4, 2002

Engines 1302 through 1307

Heat Input Capacity MMBtu/hr	Heat Output Capacity Horsepower (hp)	Potential Throughput hp-hr/yr	Limited Potential Throughput hp-hr/yr
72.54	7800	68328000	780000

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1302	12.09	1,300
1303	12.09	1,300
1304	12.09	1,300
1305	12.09	1,300
1306	12.09	1,300
1307	12.09	1,300
Total	**72.54**	**7,800**

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu or gm/hp-hr	0.0099	0.0095	0.0006	15.0	0.300	3.72
Potential Emission in tons/yr	3.15	3.02	0.187	1129	22.6	1182
Limited Potential Emission in tons/yr (based on a maximum of 100 hours of operation for each engine)	0.036	0.034	0.002	12.9	0.258	13.5

Methodology
PM, PM10, SO2, and CO Emission Factors for each engine are from AP-42, Table 3.2-3 (July 2000)
NOx and VOC Emission Factors are based on the manufacturer's specifications for each engine
Potential PM, PM10, SO2, and CO Emissions (tons/yr) = (MMBtu/hr)*(lb/MMBtu)*(1 ton/2000 lbs)*(8760 hrs/yr)
Potential PM, PM10, SO2, and CO Emissions (tons/yr) = (MMBtu/hr)*(lb/MMBtu)*(1 ton/2000 lbs)*(100 hrs/yr)
NOx and VOC Emissions (tons/yr) = (hp-hr/yr)*(gm/hp-hr)*(1lb/454gms) (1 ton/2000 pounds)

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas 4-Stroke Lean Burn

Company Name: Panhandle Eastern Pipe Line Company - Montezuma Compressor Station
Address City IN Zip: 2623 N. 600W, Montezuma, Indiana 47862
Permit Number: T 121-16432
Plt ID: 121-00008
Reviewer: Michael S. Schaffer
Application Date: November 4, 2002

Engines 1310 through 1312

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1310	15.00	2,000
1311	15.00	2,000
1312	15.00	2,000
Total	**45.0**	**6,000**

Heat Input Capacity MMBtu/hr	Heat Output Capacity Horsepower (hp)	Potential Throughput hp-hr/yr
45.0	6000	52560000

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu or gm/hp-hr	0.010	0.0001	0.0006	30.0	0.400	0.900
Potential Emission in tons/yr	1.95	0.015	0.116	1737	23.2	52.1

Engines 1313 and 1314

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1313	18.9	3,000
1314	18.9	3,000
Total	**37.8**	**6,000**

Heat Input Capacity MMBtu/hr	Heat Output Capacity Horsepower (hp)	Potential Throughput hp-hr/yr
37.8	6000	52560000

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu or gm/hp-hr	0.010	0.0001	0.0006	18.0	0.900	1.70
Potential Emission in tons/yr	1.64	0.013	0.097	1042	52.1	98.4

Methodology
PM, PM10, and SO2 Emission Factors for each engine are from AP-42, Table 3.2-2 (July 2000)
NOx, VOC, and CO Emission Factors are based on the manufacturer's specifications for each engine
PM, PM10, and SO2 Emissions (tons/yr) = (MMBtu/hr)*(lb/MMBtu)*(1 ton/2000 lbs)*(8760 hrs/yr)
NOx, VOC and CO Emissions (tons/yr) = (hp-hr/yr)*(gm/hp-hr)*(1lb/454gms) (1 ton/2000 pounds)

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas 2-Stroke Lean Burn

Company Name: Panhandle Eastern Pipeline Company - Montezuma Compressor Station
Address City IN Zip: 2623 N. 600W, Montezuma, Indiana 47862
Permit Number: T 121-16432
Plt ID: 121-00008
Reviewer: Michael S. Schaffer
Application Date: November 4, 2002

Engine 1308

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1308	16.0	1,600

Heat Input Capacity MMBtu/hr	Heat Output Capacity Horsepower (hp)	Potential Throughput hp-hr/yr
16.0	1600	14016000

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu or gm/hp-hr	0.010	0.038	0.0006	14.0	0.250	1.20
Potential Emission in tons/yr	0.694	2.69	0.041	216	3.86	18.5

Engine 1309

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1309	16.0	2,000

Heat Input Capacity MMBtu/hr	Heat Output Capacity Horsepower (hp)	Potential Throughput hp-hr/yr
16.0	2000	17520000

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu or gm/hp-hr	0.010	0.038	0.0006	20.0	0.700	1.40
Potential Emission in tons/yr	0.694	2.69	0.041	386	13.5	27.0

Engine 1315

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1315	27.6	4,000

Heat Input Capacity MMBtu/hr	Heat Output Capacity Horsepower (hp)	Potential Throughput hp-hr/yr
27.6	4000	35040000

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu or gm/hp-hr	0.010	0.038	0.0006	15.0	0.500	1.00
Potential Emission in tons/yr	1.20	4.64	0.071	579	9.65	19.3

Methodology
PM, PM10, and SO2 Emission Factors for each engine are from AP-42, Table 3.2-1 (July 2000)
NOx, VOC, and CO Emission Factors are based on the manufacturer's specifications for each engine
PM, PM10, and SO2 Emissions (tons/yr) = (MMBtu/hr)*(lb/MMBtu)*(1 ton/2000 lbs)*(8760 hrs/yr)
NOx, VOC and CO Emissions (tons/yr) = (hp-hr/yr)*(gm/hp-hr)*(1lb/454gms) (1 ton/2000 pounds)

Appendix A: Emission Calculations
Reciprocating Internal Combustion Engines - Natural Gas 4-Stroke Lean Burn

Company Name: Panhandle Eastern Pipe Line Company - Montezuma Compressor Station
Address City IN Zip: 2623 N. 600W, Montezuma, Indiana 47862
Permit Number: T 121-16432
Plt ID: 121-00008
Reviewer: Michael S. Schaffer
Application Date: November 4, 2002

Emergency Generator

Heat Input Capacity MMBtu/hr

3.82

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.010	0.0001	0.0006	4.08	0.1180	0.557
Potential Emission in tons/yr	0.009	0.0001	0.001	3.90	0.113	0.532

Pollutant	Emission Factor (lbs/MMBtu)	Potential to Emit (tons/year)
2,2,4 Trimethhylopentane	2.50E-04	0.0002
Acetaldehyde	8.36E-03	0.008
Acrolein	5.14E-03	0.005
Benzene	4.40E-04	0.0004
Formaldehyde	5.28E-02	0.050
Hexane	1.11E-03	0.001
Toluene	4.08E-04	0.0004
Xylene	1.84E-04	0.0002
Total		**0.066**

Methodology
Emission Factors for the emergency generator are from AP-42, Table 3.2-2 (July 2000)
Emissions (tons/yr) = (MMBtu/hr)*(lb/MMBtu)*(1 ton/2000 lbs)*(500 hrs/yr)

Appendix A: Emission Calculations
Internal Combustion Engines - Natural Gas
HAPs Emissions

Company Name: Panhandle Eastern Pipe Line Company - Montezuma Compressor Station
Address City IN Zip: 2623 N. 600W, Montezuma, Indiana 47862
Permit Number: T 121-16432
Plt ID: 121-00008
Reviewer: Michael S. Schaffer
Application Date: November 4, 2002

4-stroke rich burn natural gas-fired reciprocating internal combustion engine HAPs emissions (Engines 1302 - 1307)

Heat Input Capacity (MMBtu/hr): 72.5

Pollutant	Emission Factor (lbs/MMBtu)	Potential to Emit (tons/year)	Limited Potential to Emit (tons/year)
Acetaldehyde	7.76E-03	2.47	0.028
Acrolein	7.78E-03	2.47	0.028
Benzene	1.94E-03	0.616	0.007
Formaldehyde	5.52E-02	17.5	0.200
Toluene	9.63E-04	0.306	0.003
Xylene	2.68E-04	0.085	0.001
Total		**23.5**	**0.268**

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1302	12.09	1,300
1303	12.09	1,300
1304	12.09	1,300
1305	12.09	1,300
1306	12.09	1,300
1307	12.09	1,300
Total	**72.54**	**7,800**

Methodology
Emission factors are from AP42 Table 3.2-3 (July 2000) and only HAPs with emission factors greater than (E-04) as well as a rating greater than C have been included.
PTE (tons/year) = Capacity (MMBtu/hr) * Emission Factor (lb/MMBtu)*8,760 hours*ton/2000 lbs

2-stroke lean burn natural gas-fired reciprocating internal combustion engine HAPs emissions (Engines1308,1309, and 1315)

Heat Input Capacity (MMBtu/hr): 59.6

Pollutant	Emission Factor (lbs/MMBtu)	Potential to Emit (tons/year)
2,2,4 Trimethhylopentane	8.46E-04	0.221
Acetaldehyde	7.76E-03	2.03
Acrolein	7.78E-03	2.03
Benzene	1.94E-03	0.506
Ethlybenzene	1.08E-04	0.028
Formaldehyde	5.52E-02	14.4
Methanol	2.48E-03	0.647
Methylene Chloride	1.47E-04	0.038
Hexane	4.45E-04	0.116
Toluene	9.63E-04	0.251
Xylene	2.68E-04	0.070
Total		**20.3**

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1308	16.0	1,600
1309	16.0	2,000
1315	27.6	4,000
Total	**59.6**	**7,600**

Methodology
Emission factors are from AP42 Table 3.2-1 (July 2000) and only HAPs with emission factors greater than (E-04) as well as a rating greater than C have been included.
PTE (tons/year) = Capacity (MMBtu/hr) * Emission Factor (lb/MMBtu)*8,760 hours*ton/2000 lbs

4-stroke lean burn natural gas-fired reciprocating internal combustion engine HAPs emissions (Engines 1310 - 1314)

Heat Input Capacity (MMBtu/hr): 82.8

Pollutant	Emission Factor (lbs/MMBtu)	Potential to Emit (tons/year)
2,2,4 Trimethhylopentane	2.50E-04	0.091
Acetaldehyde	8.36E-03	3.03
Acrolein	5.14E-03	1.86
Benzene	4.40E-04	0.160
Formaldehyde	5.28E-02	19.1
Hexane	1.11E-03	0.403
Toluene	4.08E-04	0.148
Xylene	1.84E-04	0.067
Total		**24.9**

Emission Unit ID	Heat Input Capacity (mmBtu/hr)	Heat Output Capacity (hp)
1310	15.0	2,000
1311	15.0	2,000
1312	15.0	2,000
1313	18.9	3,000
1314	18.9	3,000
Total	**82.8**	**12,000**

Methodology
Emission factors are from AP42 Table 3.2-2 (July 2000) and only HAPs with emission factors greater than E-04 have been included.
PTE (tons/year) = Capacity (MMBtu/hr) * Emission Factor (lb/MMBtu)*8,760 hours*ton/2000 lbs

Appendix A: Emission Calculations
Combustion Turbine - Natural Gas

Company Name: Panhandle Eastern Pipeline Company - Montezuma Compressor Station
Address City IN Zip: 2623 N. 600W, Montezuma, Indiana 47862
Permit Number: T 121-16432
Plt ID: 121-00008
Reviewer: Michael S. Schaffer
Application Date: November 4, 2002

Turbine 1316

Heat Input Capacity
MMBtu/hr

79.5

	Pollutant							
	PM	PM10	SO2	NOx	VOC	CO	Formaldehyde	Toluene
Emission Factor in lb/MMBtu	0.0066	0.0066	0.0034	0.818	0.002	0.050	0.001	0.0001
Potential Emission in tons/yr	2.30	2.30	1.18	285	0.731	17.5	0.247	0.045

Methodology
PM, SO2, and VOC Emission Factors for each engine are from AP-42, Table 3.1-2a (April 2000)
PM10 is equal to PM since there are no emission factors for PM10 available
NOx and CO Emission Factors are based on the manufacturer's specifications for the combustion turbine
Formaldehyde and Toluene Emission factors are from AP42 Table 3.1-3 (April 2000)
Formaldehyde and Toluene are only HAPs with emission factors greater than (E-04) with a rating greater than C
Emissions (tons/yr) = (MMBtu/hr)*(lb/MMBtu)*(1 ton/2000 lbs)*(8760 hrs/yr)

Appendix A: Emission Calculations
Insignificant Abrasive Blasting - Enclosed
Company Name: **Panhandle Eastern Pipe Line Company - Montezuma Compressor Station**
Address City IN Zip: **2623 N. 600W, Montezuma, Indiana 47862**
Permit Number: **T 121-16432**
Plt ID: **121-00008**
Reviewer: **Michael S. Schaffer**
Application Date: **November 4, 2002**

Table 1 - Emission Factors for Abrasives

	Emission Factor	
Abrasive	lb PM / lb abrasive	lb PM10 / lb PM
Sand	0.041	0.70
Grit	0.010	0.70
Steel Shot	0.004	0.86
Other	0.010	

Table 2 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

	Nozzle Pressure (psig)							
Internal diameter, in	30	40	50	60	70	80	90	100
1/8	28	35	42	49	55	63	70	77
3/16	65	80	94	107	122	135	149	165
1/4	109	138	168	195	221	255	280	309
5/16	205	247	292	354	377	420	462	507
3/8	285	355	417	477	540	600	657	720
7/16	385	472	560	645	755	820	905	940
1/2	503	615	725	835	945	1050	1160	1265
5/8	820	990	1170	1336	1510	1680	1850	2030
3/4	1140	1420	1670	1915	2160	2400	2630	2880
1	2030	2460	2900	3340	3780	4200	4640	5060

Calculations

Adjusting Flow Rates for Different Abrasives and Nozzle Diameters

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)	
FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 =	1265
D = Density of abrasive (lb/ft3) (provided by source) =	2.7
D1 = Density of sand (lb/ft3) =	99
ID = Actual nozzle internal diameter (in) =	0.5
ID1 = Nozzle internal diameter (in) from Table 3 =	0.5

Flow Rate (FR) (lb/hr) = **34.5** per nozzle

Uncontrolled Emissions (E, lb/hr)

EF = emission factor (lb PM/ lb abrasive) From Table 1 =	0.010
FR = Flow Rate (lb/hr) =	34.5
w = fraction of time of wet blasting =	0 %
N = number of nozzles =	1

Uncontrolled Emissions =	**0.345 lb/hr**
	1.51 ton/yr

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
E = EF x FR x (1-w/200) x N
w should be entered in as a whole number (if w is 50%, enter 50)

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

Company Name: **Panhandle Eastern Pipe Line Company - Montezuma Compressor Station**
Address City IN Zip: **2623 N. 600W, Montezuma, Indiana 47862**
Permit Number: **T 121-16432**
Plt ID: **121-00008**
Reviewer: **Michael S. Schaffer**
Application Date: **November 4, 2002**

Insignificant natural gas-fired unit	mmBtu/hr rating
F-1	0.135
F-2	0.092
F-3	0.092
F-4	0.135
F-5	0.088
F-6	0.088
F-7	0.092
F-8	0.069
F-9	0.044
F-10	0.092
F-11	0.115
H-1	3.000
H-2	0.500
H-3	0.225
H-4	0.225
H-5	0.225
H-6	0.100
H-9	0.165
H-10	0.165
H-11	0.165
H-12	0.250
H-13	0.450
H-14	0.500
Total	**7.012**

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr
7.012	61

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.90	7.60	0.600	100 **see below	5.50	84.0
Potential Emission in tons/yr	0.058	0.233	0.018	3.07	0.169	2.58

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

Methodology

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
See page 9 for HAPs emissions calculations.

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

Company Name: **Panhandle Eastern Pipe Line Company - Edgerton Compressor Station**
Address City IN Zip: **2623 N. 600W, Montezuma, Indiana 47862**
Permit Number: **T 003-16430**
Plt ID: **003-00045**
Reviewer: **Michael S. Schaffer**
Application Date: **November 4, 2002**

	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	0.00210	0.00120	0.07500	1.80000	0.00340
Potential Emission in tons/yr	0.000064	0.00004	0.002	0.055	0.0001

	HAPs - Metals					
	Lead	Cadmium	Chromium	Manganese	Nickel	
Emission Factor in lb/MMcf	0.0005	0.0011	0.0014	0.0004	0.0021	**Total**
Potential Emission in tons/yr	0.00002	0.00003	0.00004	0.00001	0.00006	**0.058**

Methodology is the same as page 8.

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

Appendix A: Emission Calculations
Fugitive VOC Emissions

Company Name: Panhandle Eastern Pipe Line Company - Montezuma Compressor Station
Address City IN Zip: 2623 N. 600W, Montezuma, Indiana 47862
Permit Number: T 121-16432
Plt ID: 121-00008
Reviewer: Michael S. Schaffer
Application Date: November 4, 2002

Flanges, Pumps, Valves, Potential to Emit

Fugitive Source	Emission Factor (lbs/hr)	Number Leaking	VOC Content of Gas	Fugitive Emissions (lbs/hr)	Fugitive Emissions (tons/yr)
Valves	0.00992	275	2.29%	0.062	0.274
Compressor Seals	0.01940	47.0	2.29%	0.021	0.091
Pressure Relief Seals	0.01940	44.0	2.29%	0.020	0.086
Flanges	0.00086	525	2.29%	0.010	0.045
Other Fittings	0.00086	40.0	2.29%	0.001	0.003
		Total VOC:		**0.114**	**0.499**

Note VOC Content of Gas is from EPA-453/R-95-017