



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: May 27, 2010

RE: Beaver Oil Company / 089-29184-00151

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

Notice of Decision – Approval

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 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER-AM.dot12/3/07



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May 27, 2010

Mr. Roger Vintika
Beaver Oil Company, Inc.
6037 Lenzi Avenue
Hodgkins, Illinois 60525

Re: 089-29184-00151
First Notice-Only Change to
M089-18800-00151

Dear Mr. Vintika:

Beaver Oil Company, Inc. was issued a Minor Source Operating Permit (MSOP) Renewal, No. M089-18800-00151 on January 31, 2005 for a stationary centralized treatment plant that produces secondary fuel and lubricating oil located at 1040 Michigan Street, Gary, Indiana 46402. On April 20, 2010, the Office of Air Quality (OAQ) received an application from the source for the changes listed in the attached Technical Support Document (TSD).

All other conditions of the permit shall remain unchanged and in effect. Attached please find the entire revised permit. A copy of the permit is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>. For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Deborah Cole, of my staff, at 317-234-5377 or 1-800-451-6027, and ask for extension 4-5377.

Sincerely,

Iryn Calilung, Section Chief
Permits Branch
Office of Air Quality

Attachments: Updated Permit, Technical Support Document, Attachment A

IC/dac

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



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MINOR SOURCE OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

Beaver Oil Company, Inc.
1040 Michigan Street
Gary, Indiana 46402

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

Operation Permit No.: MSOP 089-18800-00151	
Original signed by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: January 31, 2005 Expiration Date: January 31, 2015

First Minor Permit Revision No. 089-21810-00151, issued on November 3, 2005
First Notice-Only Change No. 089-23838-00151, issued on November 27, 2006
Second Notice-Only Change No. 089-25774-00151, issued on January 28, 2008
Second Minor Permit Revision No. 089-27475-00151, issued on March 4, 2009

Third Notice-Only Change No. 089-29184-00151	
Original signed by:  Iryn Callung, Section Chief Permits Branch Office of Air Quality	Issuance Date: May 27, 2010 Expiration Date: January 31, 2015

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Attachment A: NSPS Subpart VVa

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 and A.2 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 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates stationary centralized waste treatment plant that produces secondary fuel and lubricating oil.

Source Address:	1040 Michigan Street, Gary IN 46402
General Source Phone:	219-881-9234
SIC Code:	2992
County Location:	Lake
Source Location Status:	Moderate Nonattainment for 8-hour Ozone Nonattainment for PM _{2.5} Attainment area for all other criteria pollutants
Source Status:	Minor Source Operating Permit Minor Source, under PSD and Nonattainment NSR; Minor Source, Section 112 of the Clean Air Act 1 of 28 Source Categories

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (a) one (1) Cleaver Brooks boiler with a maximum heat input rate of 8.37 million British thermal units per hour, designated Boiler-2, having the capacity to burn natural gas and No. 2 fuel oil with 0.5% sulfur content;
- (b) one (1) Johnston boiler with a maximum heat input rate of 4.19 million British thermal units per hour, designated Boiler-1, having the capacity to burn natural gas and No.2 fuel oil with 0.5% sulfur content.
- (c) one (1) Johnston boiler with a maximum heat input rate of 8.37 million British thermal units per hour, designated as Boiler-3, having the capacity to burn natural gas and No. 2 fuel oil with 0.5% sulfur content, and constructed in 2002;
- (d) five (5) 25,000 gallon vertical fixed roof liquid storage tanks, designated F5 through F9, storing finished product oil;
- (e) one (1) 20,000 gallon vertical fixed roof liquid storage tank, designated F10, storing No. 2 fuel oil;
- (f) one (1) 33,000 gallon vertical fixed roof liquid storage tank, designated F11, storing finished product oil;
- (g) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated F12, storing finished product oil;
- (h) one (1) 10,000 gallon vertical fixed roof liquid storage tank, designated S8, storing incoming raw material;
- (i) two (2) 10,000 gallon vertical fixed roof liquid storage tanks, designated T10 and T11, storing finished product oil;

- (j) two (2) 3,000 gallon horizontal fixed roof liquid storage tanks, designated AF1 and AF2, storing antifreeze (ethylene glycol);
- (k) two (2) 5,000 gallon vertical fixed roof liquid storage tanks, designated BF1 and BF2, storing No. 2 fuel oil.
- (l) two (2) 15,275 gallon horizontal fixed roof liquid storage tanks, designated F1 and F2, storing finished product oil;
- (m) one (1) 25,000 gallon horizontal fixed roof liquid storage tank, designated F3, and one (1) 25,000 gallon vertical fixed roof liquid storage tank, designated F4, each storing finished product oil;
- (n) three (3) horizontal fixed roof liquid storage tanks, designated FP-1, FT-1 and FT-2, with capacities of 4894 gallons, 3854 gallons, and 4174 gallons, respectively, storing finished product oil;
- (o) three (3) vertical fixed roof liquid storage tanks, designated R1 through R3, with capacities of 3600 gallons, 3600 gallons, and 6017 gallons, respectively, for processing raw material;
- (p) five (5) 15,275 gallon horizontal fixed roof liquid storage tanks, designated S1 through S5, storing incoming raw material;
- (q) two (2) 4700 gallon vertical fixed roof liquid storage tanks, designated T1 and T2, for processing raw material;
- (r) three (3) 7050 gallon vertical fixed roof liquid storage tanks, designated T3 through T5, storing incoming raw material;
- (s) one (1) 7050 gallon vertical fixed roof liquid storage tank, designated T6, storing wash water;
- (t) one (1) 5325 gallon horizontal fixed roof liquid storage tank, designated T7, storing incoming raw material;
- (u) Two (2) 288 gallon vertical fixed roof liquid storage tanks, T8B and T9, storing incoming raw material;
- (v) one (1) 15,000 gallon vertical fixed roof liquid storage tank, designated T12, for processing raw material;
- (w) two (2) 25,000 gallon vertical fixed roof liquid storage tanks, designated as SF1 and SF2, storing raw material;
- (x) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated as SF3, storing raw material;
- (y) one (1) 2,120 gallon vertical fixed roof liquid storage tank, designated as E-W Sump Tank, storing process water;
- (z) one (1) 12,000 gallon vertical fixed roof liquid storage tank, designated as IS 1, storing raw material;
- (aa) one (1) 1,000,000 gallon vertical fixed roof liquid storage tank, designated as FP6, storing finished product;
- (bb) Two (2) vertical fixed roof liquid storage tanks, identified as FP-2 and FP-3, for storing

finished product oil each with a maximum vapor pressure of 7.5 mm Hg (150°F) and a maximum storage capacity of 630,000 gallons;

- (cc) Two (2) vertical fixed roof liquid storage tanks, identified as FP-4 and FP-5, for storing finished product oil each with a maximum vapor pressure of 7.5 mm Hg (150°F) and a maximum storage capacity of 110,000 gallons;
- (dd) Six (6) vertical fixed roof liquid storage tanks, identified as F-13 to F-18, for storing finished product oil each with a maximum vapor pressure of 7.5 mm Hg (150°F) and a maximum storage capacity of 25,000 gallons; and
- (ee) Three (3) scrubbers, identified as SC1, SC2 and SC3 to be connected to various processing and finished products tanks for reduction of odor from the bearing compounds.
- (ff) One (1) methanol recovery process, constructed in October 2008, and consisting of the following:
 - (1) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R4, constructed in October 2008, with a maximum capacity of 6000 gallons per day.
 - (2) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R5, constructed in October, 2008, with a maximum capacity of 3000 gallons per day.
 - (3) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R6, constructed in October, 2008, with a maximum capacity of 3000 gallons per day.

Under New Source Performance Standard: Standards of Performance for Equipment Leaks of VOC in the synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 (40 CFR Part 60, Subpart VVa), the pumps and valves, pressure relief devices, sampling connection systems, open-ended valves or lines, closed vent systems and control devices associated with the synthetic organic chemicals manufacturing are considered affected sources.

- (gg) One (1) 5,000 gallon vertical fixed roof reactor, designated as R7, storing raw material;
- (hh) One (1) 6,000 gallon vertical fixed roof reactor, designated as R8, storing raw material;
- (ii) One (1) 5,000 gallon vertical fixed roof still, consisting of Tank 8A with a condenser, designated as Still 1, storing raw material;
- (jj) One (1) 2,000 gallon vertical fixed roof still, consisting of Tanks ST2A and ST2B, a heat exchanger and a condenser and are interconnected, designated as Still 2, storing raw material;
- (kk) One (1) 6,000 gallon vertical fixed roof liquid storage tank, designated as SF4, storing raw material;
- (ll) One (1) 9,000 gallon vertical fixed roof liquid storage tank, designated as SF5, storing raw material;
- (mm) Two (2) 20,000 gallon vertical fixed roof liquid storage tank, designated as Tank 13 and Tank 14, storing raw material;

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M089-29184-00151, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

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

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

B.7 Duty to Provide Information

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

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:

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

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The Permittee shall implement the PMPs.

- (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.
- (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.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M089-29184-00151 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least one hundred twenty (120) days 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 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][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 permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) 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.18 Credible Evidence [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 2-6.1-5(a)(1)]

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Demolition and Renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).

- (g) Indiana Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

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

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (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 2-6.1-5(a)(2)]

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.12 Response to Excursions or Exceedances

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

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

C.13 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (b) 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.
- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. 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.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) one (1) Johnston boiler with a maximum heat input rate of 4.19 million British thermal units per hour, designated Boiler-1, having the capacity to combust natural gas and No. 2 fuel oil with 0.5% sulfur content.
- (b) one (1) Cleaver Brooks boiler with a maximum heat input rate of 8.37 million British thermal units per hour, designated Boiler-2, having the capacity to combust natural gas and No. 2 fuel oil with 0.5% sulfur content.
- (c) one (1) Johnston boiler with a maximum heat input rate of 8.37 million British thermal units per hour, designated as Boiler-3, having the capacity to burn natural gas and No. 2 fuel oil with 0.5% sulfur content, and constructed in 2002.

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

Emission Limitations and Standards

D.1.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the PM emissions from one (1) Johnston boiler, identified as Boiler-1, one (1) Cleaver-Brooks boiler, identified as Boiler -2, and one (1) Johnston boiler, identified as Boiler-3, shall be limited to 0.60, 0.56, and 0.49 pounds per MMBtu heat input, respectively.

D.1.2 Sulfur Content [326 IAC 7-1.1]

The three (3) boilers, identified as Boiler-1, Boiler-2, and Boiler-3, shall each burn fuel oil with no higher than 0.5% sulfur when burning No.2 fuel oil.

D.1.3 Preventive Maintenance Plan [326 IAC 1-6-3]

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

Compliance Determination Requirements

D.1.4 Sulfur Dioxide Emissions and Sulfur Content

Compliance with Condition D.1.2 shall be determined utilizing one of the following options:

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

emissions from the boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

Compliance Monitoring Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.5 Visible Emissions Notations

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

Record Keeping and Reporting Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.1.6 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1 and D.1.2 the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with the SO₂ emission limit established in Condition D.1.2.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

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

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit,

from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (b) To document compliance with Condition D.1.5, the Permittee shall maintain records of visible emission notations of the boiler stack exhausts once per day when combusting fuel oil. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.7 Reporting Requirements

In order to document the compliance status with Condition D.1.6, the natural gas boiler certification shall be submitted within thirty (30) days after the end of the six (6) month period being reported. Section C - General Reporting Requirements contains the Permittee's obligation with regard to the reporting required by this condition.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (d) five (5) 25,000 gallon vertical fixed roof liquid storage tanks, designated F5 through F9, storing finished product oil;
- (e) one (1) 20,000 gallon vertical fixed roof liquid storage tank, designated F10, storing No. 2 fuel oil;
- (f) one (1) 33,000 gallon vertical fixed roof liquid storage tank, designated F11, storing finished product oil;
- (g) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated F12, storing finished product oil;
- (h) one (1) 10,000 gallon vertical fixed roof liquid storage tank, designated S8, storing incoming raw material;
- (i) two (2) 10,000 gallon vertical fixed roof liquid storage tanks, designated T10 and T11, storing finished product oil;
- (j) two (2) 3,000 gallon horizontal fixed roof liquid storage tanks, designated AF1 and AF2, storing antifreeze (ethylene glycol); and
- (k) two (2) 5,000 gallon vertical fixed roof liquid storage tanks, designated BF1 and BF2, storing No. 2 fuel oil.
- (l) two (2) 15,275 gallon horizontal fixed roof liquid storage tanks, designated F1 and F2, storing finished product oil;
- (m) one (1) 25,000 gallon horizontal fixed roof liquid storage tank, designated F3, and one (1) 25,000 gallon vertical fixed roof liquid storage tank, designated F4, each storing finished product oil;
- (n) three (3) horizontal fixed roof liquid storage tanks, designated FP-1, FT-1 and FT-2, with capacities of 4894 gallons, 3854 gallons, and 4174 gallons, respectively, storing finished product oil;
- (o) three (3) vertical fixed roof liquid storage tanks, designated R1 through R3, with capacities of 3600 gallons, 3600 gallons, and 6017 gallons, respectively, for processing raw material;
- (p) five (5) 15,275 gallon horizontal fixed roof liquid storage tanks, designated S1 through S5, storing incoming raw material;
- (q) two (2) 4700 gallon vertical fixed roof liquid storage tanks, designated T1 and T2, for processing raw material;
- (r) three (3) 7050 gallon vertical fixed roof liquid storage tanks, designated T3 through T5, storing incoming raw material;
- (s) one (1) 7050 gallon vertical fixed roof liquid storage tank, designated T6, storing wash water;
- (t) one (1) 5325 gallon horizontal fixed roof liquid storage tank, designated T7, storing incoming raw material;
- (u) Two (2) 5288 gallon vertical fixed roof liquid storage tanks, designated, T8B and T9, storing incoming raw material;

- (v) one (1) 15,000 gallon vertical fixed roof liquid storage tank, designated T12, for processing raw material'
 - (w) two (2) 25,000 gallon vertical fixed roof liquid storage tanks, designated as SF1 and SF2, storing raw material;
 - (x) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated as SF3, storing raw material;
 - (y) one (1) 2,120 gallon vertical fixed roof liquid storage tank, designated as E-W Sump Tank, storing process water;
 - (z) one (1) 12,000 gallon vertical fixed roof liquid storage tank, designated as IS 1, storing raw material; and
 - (aa) one (1) 1,000,000 gallon vertical fixed roof liquid storage tank, designated as FP6, storing finished product.
 - (bb) Two (2) vertical fixed roof liquid storage tanks, identified as FP-2 and FP-3, for storing finished product oil each with a maximum vapor pressure of 7.5 mm Hg (150°F) and a maximum storage capacity of 630,000 gallons;
 - (cc) Two (2) vertical fixed roof liquid storage tanks, identified as FP-4 and FP-5, for storing finished product oil each with a maximum vapor pressure of 7.5 mm Hg (150°F) and a maximum storage capacity of 110,000 gallons;
 - (dd) Six (6) vertical fixed roof liquid storage tanks, identified as F-13 to F-18, for storing finished product oil each with a maximum vapor pressure of 7.5 mm Hg (150°F) and a maximum storage capacity of 25,000 gallons; and
 - (ee) Three (3) scrubbers, identified as SC1 and SC2 to be connected to various processing and finished products tanks for reduction of odor from the bearing compounds.
 - (ff) One (1) methanol recovery process, constructed in October 2008, and consisting of the following:
 - (1) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R4, constructed in October, 2008, with a maximum capacity of 6000 gallons per day.
 - (2) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R5, constructed in October, 2008, with a maximum capacity of 3000 gallons per day.
 - (3) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R6, constructed in October, 2008, with a maximum capacity of 3000 gallons per day.
- Under New Source Performance Standard: Standards of Performance for Equipment Leaks of VOC in the synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 (40 CFR Part 60, Subpart VVa), the pumps and valves, pressure relief devices, sampling connection systems, open-ended valves or lines, closed vent systems and control devices associated with the synthetic organic chemicals manufacturing are considered affected sources.
- (gg) One (1) 5,000 gallon vertical fixed roof reactor tank, designated as R7, storing raw material;
 - (hh) One (1) 6,000 gallon vertical fixed roof reactor tank, designated as R8, storing raw material;

- (ii) One (1) 5, 000 gallon vertical fixed roof still tank consisting of Tank 8A and a condenser, designated as Still 1, storing raw material;
- (jj) One (1) 2,000 gallon vertical fixed roof still tank, consisting of Tanks ST2A and ST2B, condenser and a heat exchanger and are interconnected, designated as Still 2, storing raw material;
- (kk) One (1) 6,000 gallon vertical fixed roof liquid storage tank, designated as SF4, storing raw material;
- (ll) One (1) 9,000 gallon vertical fixed roof liquid storage tank, designated as SF5, storing raw material;
- (mm) Two (2) 20, 000 gallon vertical fixed roof liquid storage tanks, designated as Tank 13 and Tank 14, storing raw material.

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

Record Keeping and Reporting Requirement [326 IAC 2-5.1-3 (e) (2)] [326 IAC 2-6.1-5 (a) (2)]

D.2.1 Volatile Organic Liquid Storage Tanks [326 IAC 12]

- (a) Pursuant to 326 IAC 12, the liquid storage tanks identified as F1, F2, S1, S2, S3, S4, S5, T10, T11 and T12 have the following record keeping and reporting as stated in b(1) and b(2) below.
- (b) Pursuant to New Source Performance Standard (NSPS) (40 CFR 60.116b, Subpart Kb), the liquid storage tanks identified as F3, F4, F5,F6, F7, F8, F9, F11, F12, FP-2, FP-3, FP-4, FP-5, F-13 to F-18, SF1, SF2, SF3, FP6 have record keeping and reporting requirements as stated in (1) and (2) below.
 - (1) The Permittee shall maintain records required in section (b) below for the life of the storage vessel.
 - (2) The Permittee shall maintain a record and submit to IDEM, OAQ a report containing the following information for each vessel:
 - (A) The vessel identification number
 - (B) The vessel dimensions
 - (C) The vessel capacity

D.2.2 Record Keeping Requirements [326 IAC 8-9-6]

- (a) Pursuant to 326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels), storage tanks identified as F1, F2, FP1, FT1, FT2, R1, R2, R3, R4, R5, R6, S1, S2, S2, S4, S5, T1, T2, T3, T4, T5, T7, T8A, T8B, T9, T12, S8, T10, T11, AF1, AF2, BF1, BF2, IS 1, T-10, FP-2, FP-3, FP-4, FP-5, F-13 to F-18, T-11, R7, R8, Still 1, Still 2, SF4, SF5, Tank 13, and Tank 14 are subject to the following record keeping requirements.
 - (1) The Permittee shall keep copies of all records required by this section, except for the record required by paragraph (2) below, for at least two (2) years. The record required by paragraph (2) below will be kept for the life of the source.
 - (2) The Permittee shall keep readily accessible records showing the dimension of each storage vessel, identification number and an analysis showing the capacity of each storage vessel.

SECTION E.1 FACILITY OPERATION CONDITIONS - 40 CFR 60, Subpart VVa - Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

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

(ff) One (1) methanol recovery process, constructed in October 2008, and consisting of the following:

- (1) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R4, constructed in October, 2008, with a maximum capacity of 6000 gallons per day.
- (2) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R5, constructed in October, 2008, with a maximum capacity of 3000 gallons per day.
- (3) One (1) Distillation Reactor with condenser for converting condensate to final product, identified as R6, constructed in October, 2008, with a maximum capacity of 3000 gallons per day.

Under New Source Performance Standard: Standards of Performance for Equipment Leaks of VOC in the synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 (40 CFR Part 60, Subpart VVa), the pumps and valves, pressure relief devices, sampling connection systems, open-ended valves or lines, closed vent systems and control devices associated with the synthetic organic chemicals manufacturing are considered affected sources.

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

E.1.1 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR 60, Subpart A]

- (a) The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facilities described in this SECTION E.1, except when otherwise specified in 40 CFR 60, Subpart VVa.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to :

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Ave.
MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

E.1.2 Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006 [40 CFR 60, Subpart VVa] [326 IAC 12]

Pursuant to 40 CFR 60, Subpart VVa, the Permittee shall comply with the provisions of Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006, which are incorporated by reference as 326 IAC 12, as specified as follows:

- (1) 40 CFR 60.480a
- (2) 40 CFR 60.481a

- (3) 40 CFR 60.482-1a
- (4) 40 CFR 60.482-2a
- (5) 40 CFR 60.482-5a
- (6) 40 CFR 60.482-8a
- (7) 40 CFR 60.482-9a
- (8) 40 CFR 60.482-10a
- (9) 40 CFR 60.482-11a
- (10) 40 CFR 60.483-1a
- (11) 40 CFR 60.483-2a
- (12) 40 CFR 60.484a
- (13) 40 CFR 60.485a
- (14) 40 CFR 60.486a
- (15) 40 CFR 60.487a
- (16) 40 CFR 60.488a
- (17) 40 CFR 60.489a

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	Beaver Oil Company, Inc.
Address:	1040 Michigan Street, Gary, Indiana 46402
City:	Gary
Phone #:	219-881-9234
MSOP #:	089-18800-00151

I hereby certify that Beaver Oil Company, Inc. is still in operation.
 no longer in operation.

I hereby certify that Beaver Oil Company, Inc. is in compliance with the requirements of MSOP 089-18800-00151.
 not in compliance with the requirements of MSOP 089-18800-00151.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
FAX NUMBER - 317 233-6865**

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERM LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____ / ____ / 20 ____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____ / ____ / 20 ____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM₁₀, SO₂, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH**

SEMI-ANNUAL NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: Beaver Oil Co., Inc.
Source Address: 1040 Michigan Street, Gary, Indiana 46402
Mailing Address: 1040 Michigan Street, Gary, Indiana 46402
Permit No.: 089-21810-00151

<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Alternate Fuel burned From: _____ To: _____
--

I certify that, based on information and belief formed after reasonable inquiry, the statements information in the document are true, accurate, and complete.
Signature: _____
Printed Name: _____
Title/Position: _____
Phone: _____
Date: _____

A certification by an authorized individual as defined by 326 IAC 2-1.1-1(1) is required for this report.

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

Technical Support Document (TSD) for a Notice Only Change to a
Minor Source Operating Permit (MSOP)

Source Description and Location
--

Source Name:	Beaver Oil Company, Inc.
Source Location:	1040 Michigan Street, Gary IN 46402
County:	Lake
SIC Code:	2992
Operation Permit No.:	089-18800-00151
Operation Permit Issuance Date:	January 31, 2005
Notice Only Change No.:	089-29184-00151
Permit Reviewer:	Deborah Cole

On April 20, 2010, the Office of Air Quality (OAQ) received an application from Beaver Oil Company related to modifications to an existing centralized waste treatment plant that produces secondary fuel and lubricating oil.

Existing Approvals

The source was issued MSOP Renewal No. 089-18800-00151 on January 31, 2005. The source has since received the following approvals:

- (a) First Minor Permit Revision No. 089-21810-00151, issued on November 3, 2005
- (b) First Notice-Only Change No. 089-23838-00151, issued on November 27, 2006
- (c) Second Notice-Only Change No. 089-25774-00151, issued on January 28, 2008
- (d) Second Minor Permit Revision No. 089-27475-00151, issued on March 4, 2009

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Nonattainment Subpart 2 Moderate effective June 15, 2004, for the 8-hour ozone standard. ¹
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area for the 1-hour ozone standard which was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM2.5.	

- (a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.

(i) 1-hour ozone standard

On December 22, 2006 the United States Court of Appeals, District of Columbia issued a decision which served to partially vacate and remand the U.S. EPA's final rule for implementation of the eight-hour National Ambient Air quality Standard for ozone. *South Coast Air Quality Mgmt. Dist. v. EPA*, 472 F.3d 882 (D.C. Cir., December 22, 2006), *rehearing denied* 2007 U.S. App. LEXIS 13748 (D.C. Cir., June 8, 2007). The U.S. EPA has instructed IDEM to issue permits in accordance with its interpretation of the *South Coast* decision as follows: Gary-Lake-Porter County was previously designated as a severe non-attainment area prior to revocation of the one-hour ozone standard, therefore, pursuant to the anti-backsliding provisions of the Clean Air Act, any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. This means that a source must achieve the Lowest Achievable Emission Rate (LAER) if it exceeds 25 tons per year of VOC emissions and must offset any increase in VOC emissions by a decrease of 1.3 times that amount.

On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability for the source section.

(ii) 8-hour ozone standard

VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.

(b) PM2.5

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

(c) Other Criteria Pollutants

Lake County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

(a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.

(b) Since this source is classified as a chemical process plant, it is considered one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7. Therefore, fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Status of the Existing Source

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

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boilers 1-3 (Natural Gas)	0.17	0.70	0.70	2.61	9.17	0.50	7.70	0.17	0.17 Hexane
Boilers 1-3 (Fuel Oil)	2.16	2.16	2.16	51.40	15.72	0.13	3.27	negl.	negl.
Tanks	negl.	negl.	negl.	negl.	negl.	9.89	negl.	6.53	6.43 Methanol
Equipment Leaks	negl.	negl.	negl.	negl.	negl.	0.05	negl.	0.05	0.05 Methanol
Total PTE of Entire Source*	2.16	2.16	2.16	51.40	15.72	10.44	7.70	6.75	6.48 Methanol
Title V Major Source Thresholds	NA	100	100	100	100	25	100	25	10
Emission Offset/ Nonattainment NSR Major Source Thresholds	100	100	100	100	100	100	100	NA	NA

negl. = negligible
 *Worst case emissions from fuel usage used for total emissions.
 The tanks emissions are based on the calculations of MPR 089-21810-000151. Boiler calculations are from the attached TSD Appendix A, using updated emission factors.

This PTE table is based on the TSD of Minor Permit Review 089-27475-00151 issued March 4, 2009.

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Beaver Oil Company, Inc. on April 20, 2010, relating to the construction and operation of six (6) tanks, two (2) stills and a scrubber.

The following is a list of the unpermitted emission units:

- (1) One (1) 5,000 gallon vertical fixed roof reactor tank, designated as R7, storing raw material;
- (2) One (1) 6,000 gallon vertical fixed roof reactor tank, designated as R8, storing raw material;
- (3) One (1) 5,000 gallon vertical fixed roof still tank, consisting of Tank 8A which will be converted and a condenser added, designated as Still 1, storing raw material;
- (4) One (1) 2,000 gallon vertical fixed roof still tank, consisting of Tanks T2A and T2B, which will be converted and a heat exchanger and a condenser will be added to each tank. The combined unit, which is interconnected, designated as Still 2, storing raw material;
- (5) One (1) 6,000 gallon vertical fixed roof liquid storage tank, designated as SF4, storing raw material;
- (6) One (1) 9,000 gallon vertical fixed roof liquid storage tank, designated as SF5, storing raw material;
- (7) Two (2) 20,000 gallon vertical fixed roof liquid storage tank, designated as Tank 13 and Tank 14, storing raw material;
- (8) One (1) scrubber, identified as SC3 to be connected to various processing and finished products tanks for reduction of odor from the bearing compounds.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-6.1-6. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boilers 1-3 Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boilers 1-3 Fuel Oil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tanks	0.00	0.00	0.00	0.00	0.00	1.802	0.00	0.00	0.00
Equipment Leaks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PTE of Proposed Revision	0.00	0.00	0.00	0.00	0.00	1.802	0.00	0.00	0.00

negl. = negligible
 * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

Pursuant to 326 IAC 2-6.1-6 - Permit Revisions this is a Notice-Only Change because the modification adds emission units of the same type that are already permitted and that will comply with the same applicable requirements and permit terms and conditions as the existing emission units and the potential to emit of the modification is less than the thresholds in 326 IAC 2-2 or 326 IAC 2-3.

PTE of the Entire Source After Issuance of the MSOP Revision

The table below summarizes the potential to emit of the entire source with updated emissions shown as **bold** values and previous emissions shown as ~~strikethrough~~ values.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Boilers 1-3 Natural Gas	0.17	0.70	0.70	2.61	9.17	0.50	7.70	0.17	0.17 Hexane
Boilers 1-3 Fuel Oil	2.16	2.16	2.16	51.40	15.72	0.13	3.27	negl.	negl.
Tanks	negl.	negl.	negl.	negl.	negl.	9.89 11.69	negl.	6.53	6.43 Methanol
Equipment Leaks	negl.	negl.	negl.	negl.	negl.	0.05	negl.	0.05	0.05 Methanol
Total PTE of Entire Source	2.16	2.16	2.16	51.40	15.72	10.44 12.25	7.70	6.76	6.48 Methanol
Title V Major Source Thresholds	NA	100	100	100	100	25	100	25	10
Emission Offset/ Nonattainment NSR Major Source Thresholds	100	100	100	100	100	100	100	NA	NA

negl. = negligible
 Worst case emissions from fuel usage used for total emissions.

MSOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the uncontrolled/unlimited potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-6.1 (MSOP).

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) Reactor Tanks 7 and 8 and Stills 1 and 2 and Tanks SF4 and SF5 are not subject to the New Source Performance Standard for Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984, 40 CFR 60.110b, Subpart Kb (326 IAC 12) Reactor Tanks 7, 8, 13, 14 and Stills 1 and 2 will process an oil and water mixture only which has de minimus VOM and their storage capacities are less than 75 cubic meters (m³) or 19, 812 gallons. Tanks SFR and SF5 will store surfactant and water, containing no VOM, and their storage capacities are less than 75 cubic meters (m³) or 19, 812 gallons.
- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

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

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than 100 tons per year, and this source is one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) 326 IAC 2-3 (Emission Offset)
This modification to an existing Emission Offset minor stationary source will not change the Emission Offset minor status, because the potential to emit of VOC will continue to be less than 25 tons per year and the potential to emit all other nonattainment regulated pollutants from the entire source will continue to be less than 100 tons per year. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.
- (d) 326 IAC 2-1.1-5 (Nonattainment New Source Review)
This modification to an existing minor stationary source under 326 IAC 2-1.1-5 (Nonattainment New Source Review) will not change the minor status, because the potential to emit of PM_{2.5}

from the entire source will continue to be less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply. See PTE of the Entire Source After Issuance of the MSOP Revision Section above.

- (e) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new reactor tanks R4, R5, and R6 is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (f) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is located in Lake County, it has potential to emit of NOx and VOC of less than twenty-five (25) tons per year, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.
- (g) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
 - (1) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (h) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4, the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.

Tanks

- (i) 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
Pursuant to 326 IAC 8-9-1, on and after October 1, 1995, this rule applies to stationary vessels used to store volatile organic liquids (VOL) that are located in Clark, Floyd, Lake or Porter Counties. Reactor tanks R-7, R-8, Still 1, Still 2, Tanks SF4, SF5, 13 and 14, with a capacities of less than thirty-nine thousand (39,000) gallons each are subject to the reporting and record keeping provisions of section 6(a) and 6(b) of this rule and are exempt from all other provisions of this rule.
- (j) 326 IAC 12 (New Source Performance Standards)
See Federal Rule Applicability Section of this TSD.

Compliance Determination, Monitoring and Testing Requirements

The existing compliance requirements will not change as a result of this revision. The source shall continue to comply with the applicable requirements and permit conditions as contained in MSOP Renewal No: 089-18800-00151, issued on January 21, 2005.

Proposed Changes

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

Change 1 Emission unit descriptions have been added and or revised in Sections A.2 and D.2 as follows:

A.2 Emissions Units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (d) **Two (2) three (3)** 288 gallon vertical fixed roof liquid storage tanks, designated ~~T8A~~, T8B and T9, storing incoming raw material;
...
- (ee) ~~Two (2)~~ **Three (3)** scrubbers, identified as SC1, SC2 and SC3 to be connected to various processing and finished products tanks for reduction of odor from the bearing compounds.
...
- (gg) **One (1) 5,000 gallon vertical fixed roof reactor tank, designated as R7, storing raw material;**
- (hh) **One (1) 6,000 gallon vertical fixed roof reactor tank, designated as R8, storing raw material;**
- (ii) **One (1) 5,000 gallon vertical fixed roof still tank, consisting of Tank 8A with a condenser, designated as Still 1, storing raw material;**
- (jj) **One (1) 2,000 gallon vertical fixed roof still tank, consisting of Tanks ST2A and ST2B, a heat exchanger and a condenser and are interconnected, designated as Still 2, storing raw material;**
- (kk) **One (1) 6,000 gallon vertical fixed roof liquid storage tank, designated as SF4, storing raw material;**
- (ll) **One (1) 9,000 gallon vertical fixed roof liquid storage tank, designated as SF5, storing raw material;**
- (mm) **Two (2) 20,000 gallon vertical fixed roof liquid storage tank, designated as Tank 13 and Tank 14, storing raw material;**

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- ...
- (d) **Two (2) three (3)** 5288 gallon vertical fixed roof liquid storage tanks, designated ~~T8A~~, T8B and T9, storing incoming raw material;
...
- (ee) ~~Two (2)~~ **Three (3)** scrubbers, identified as SC1, SC2, and SC3 to be connected to various processing and finished product tanks for reduction of odor from the bearing compounds;
...
- (gg) **One (1) 5,000 gallon vertical fixed roof reactor, designated as R7, storing raw material;**
- (hh) **One (1) 6,000 gallon vertical fixed roof reactor, designated as R8, storing raw material;**
- (ii) **One (1) 5, 000 gallon vertical fixed room still consisting of Tank 8A and a condenser, designated as Still 1, storing raw material;**

- (jj) **One (1) 2,000 gallon vertical fixed roof still consisting of Tank ST2A and ST2B, a condenser and a heat exchange of each tank and the tanks are interconnected, designated as Still 2, storing raw material.**
- (kk) **One (1) 6,000 gallon vertical fixed roof liquid storage tank, designated as SF4, storing raw material;**
- (ll) **One (1) 9,000 gallon vertical fixed roof liquid storage tank, designated as SF5, storing raw material;**
- (mm) **Two (2) 20, 000 gallon vertical fixed roof liquid storage tanks, designated as Tank 13 and Tank 14, storing raw material.**

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

Change 2 Storage tanks subject to record keeping requirements were added to the Record Keeping and Reporting Requirement conditions of the permit. Conditions D.2.1 and D.2.2 were revised as follows:

Record Keeping and Reporting Requirement [326 IAC 2-5.1-3 (e) (2)] [326 IAC 2-6.1-5 (a) (2)]

...

D.2.2 Record Keeping Requirements [326 IAC 8-9-6]

- (a) Pursuant to 326 IAC 8-9-6 (Volatile Organic Liquid Storage Vessels), storage tanks identified as F1, F2, FP1, FT1, FT2, R1, R2, R3, R4, R5, R6, S1, S2, S2, S4, S5, T1, T2, T3, T4, T5, T7, T8A, T8B, T9, T12, S8, T10, T11, AF1, AF2, BF1, BF2, IS 1, T-10, FP-2, FP-3, FP-4, FP-5, F-13 to F-18, T-11 **R7, R8, Still 1, Still 2, SF4, SF5, Tank 13, and Tank 14** are subject to the following record keeping requirements.
 - (1) The Permittee shall keep copies of all records required by this section, except for the record required by paragraph (2) below, for at least two (2) years. The record required by paragraph (2) below will be kept for the life of the source.
 - (2) The Permittee shall keep readily accessible records showing the dimension of each storage vessel, identification number and an analysis showing the capacity of each storage vessel.

IDEM has recently revised the standard language in several of the B and C Conditions of the Permit. The changes are listed below, followed by a complete ~~strikeout~~ of the old language and the replaced language **bolded**.

- Change 1 For clarity, IDEM has changed references to the general conditions: "in accordance with Section B", "in accordance with Section C", or other similar language, to "Section C ... contains the Permittee's obligations with regard to the records required by this condition."
- Change 2 IDEM has decided that the phrases "no later than" and "not later than" are clearer than "within" in relation to the end of a timeline. Therefore all timeline have been switched to "no later than" or "not later than" except for the timelines in Section B - Revocation of Permits, Duty to Provide Information, Preventive Maintenance Plan, Emergency Provisions, Operational Flexibility, Section C - General Record Keeping Requirements and the Emergency Occurrence Report. The underlying rules state "within."
- Change 3 IDEM has decided to clarify what rule requirements a certification needs to meet. IDEM has decide to remove the last sentence dealing with the need for certification from the

- forms because the Conditions requiring the forms already address this issue.
- Change 4 To clarify that Section B - Certification only states what a certification must be, IDEM has revised the condition.
- Change 5 IDEM has decided to clarify Section B - Preventive Maintenance Plan.
- Change 6 IDEM, OAQ is revising Section B - Emergency Provisions to delete paragraph (h). 326 IAC 2-8-4(3)(C)(ii) allows that deviations reported under an independent requirement do not have to be included in the Quarterly Deviation and Compliance Monitoring Report.
- Change 7 IDEM, OAQ has decided that having a separate condition for the reporting of deviations is unnecessary. Therefore, IDEM has removed Section B - Deviation form Permit Requirements and Conditions and added the requirements of that condition to Section C - General Reporting Requirements. Paragraph (d) of Section C - General Reporting Requirements has been removed because IDEM already states the timeline and certification needs of each report in the condition requiring the report.
- Change 8 IDEM has decided to state which rule establishes the authority to set a deadline for the Permittee to submit additional information. Therefore, Section B - Permit Renewal has been revised.
- Change 9 IDEM has added 326 IAC 5-1-1 to the exception clause of Section C - Opacity, since 326 IAC 5-1-1 does list exceptions.
- Change 10 IDEM has revised Section C - Incineration to more closely reflect the two underlying rules.
- Change 11 IDEM has changed the title, order, and wording of the condition formerly entitled Section C - Fugitive Dust Emissions to match 326 IAC 6.8-10-3.
- Change 12 IDEM has removed the first paragraph of Section C - Performance Testing due to the fact that specific testing conditions elsewhere in the permit will specify the timeline and procedures.
- Change 13 IDEM has revised Section C - Compliance Monitoring. The reference to recordkeeping has been removed due to the fact that other conditions already address recordkeeping. The voice of the condition has been change to clearly indicate that it is the Permittee that must follow the requirements of the condition.
- Change 14 IDEM has removed Section C - Monitoring Methods. The conditions that require the monitoring or testing, if required, state what methods shall be used.
- Change 15 IDEM has revised Section C - Actions Related to Noncompliance Demonstrated by a Stack Test. The requirements to take response steps and minimize excess emissions have been removed because Section C - Response to Excursions or Exceedances already requires response steps related to exceedances and excess emissions minimization. The start of the timelines was switched from "the receipt of the test results" to "the date of the test." There was confusion if the "receipt" was by IDEM, the Permittee, or someone else. Since the start of the timelines has been moved up, the length of the timelines was increased. The new timelines require action within a comparable timeline; and the new timelines still ensure that the Permittee will return to compliance within a reasonable timeframe.
- Change 16 The voice of paragraph (b) of Section C - General Record Keeping Requirements has been change to clearly indicate that it is the Permittee that must follow the requirements of the paragraph.
- Change 17 IDEM has decided to simplify the referencing in Section C - Compliance with 40 CFR 82

and 326 IAC 22-1.

- Change 18 IDEM has decided to clarify Section D - Testing Requirements
- Change 19 IDEM has included the replacement of an instrument as an acceptable action in Section D - Parametric Monitoring.
- Change 20 The word "status" has been added to Section D - Reporting Requirements. The Permittee has the obligation to document the compliance status. The wording has been revised to properly reflect this.
- Change 21 The phrase "of this permit" has been added to the paragraph of the Quarterly Deviation and Compliance Monitoring Report to match the underlying rule.

SECTION B — GENERAL CONDITIONS

~~THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.~~

~~B.1 — Permit No Defense [IC 13]~~

~~This permit to operate does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.~~

~~B.2 — Definitions~~

~~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 2-1.1-1 shall prevail.~~

~~B.3 — Effective Date of the Permit [IC13-15-5-3]~~

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

~~B.4 — Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]~~

~~This permit, M089-18800-00151, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions of this permit do not affect the expiration date.~~

~~The Permittee shall apply for an operation permit renewal at least one hundred twenty (120) days prior to the expiration date. If a timely and sufficient permit application for a renewal has been made, this permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.~~

~~B.5 — Modification to Permit [326 IAC 2]~~

~~All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of construction permits pursuant to 326 IAC 2 (Permit Review Rules).~~

~~B.6 — Annual Notification [326 IAC 2-6.1-5(a)(5)]~~

~~(a) — Annual notification shall be submitted to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.~~

~~(b) — Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.~~

~~(c) — The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:~~

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

~~(d) — The notification 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. _____

~~B.7 Preventive Maintenance Plan [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) including the following information on each facility:~~
- ~~(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;~~
 - ~~(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and~~
 - ~~(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.~~
- ~~(b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~
- ~~(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.8 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]~~

- ~~(a) Permit revisions are governed by the requirements of 326 IAC 2-6.1-6.~~
- ~~(b) Any application requesting an amendment or modification of this permit shall be submitted to:~~

~~Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue,
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2254~~

~~Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1.~~

- ~~(c) The Permittee shall notify the OAQ within thirty (30) calendar days of implementing a notice only change. [326 IAC 2-6.1-6(d)]~~
- ~~(d) No permit amendment or modification is required for the addition, operation or removal of a non-road engine, as defined in 40 CFR 89.2.~~

~~B.9 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)] [IC 13-14-2-2] [IC13-17-3-2][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 permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this~~

permit;

- (b) ~~As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;~~
- (c) ~~As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;~~
- (d) ~~As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and~~
- (e) ~~As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.~~

B.10 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

~~Pursuant to [326 IAC 2-6.1-6(d)(3)]:~~

- (a) ~~In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAQ, Permits Branch, within thirty (30) days of the change.~~
- (b) ~~The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).~~
- (c) ~~IDEM, OAQ, shall issue a revised permit.~~

~~The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.~~

B.11 Annual Fee Payment [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.~~
- (b) ~~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.~~

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, OAQ the fact that continuance of this permit is not consistent with purposes of this article.

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 twenty percent (20%) 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 non-overlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Fugitive Dust Emissions [326 IAC 6-4]

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

C.4 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

- ~~(2) If there is a change in the following:~~
- ~~(A) Asbestos removal or demolition start date;~~
 - ~~(B) Removal or demolition contractor; or~~
 - ~~(C) Waste disposal site.~~
- ~~(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).~~
- ~~(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).~~

~~All required notifications shall be submitted to:~~

~~Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue,
MC 61-52 IGCN 1003
Indianapolis, Indiana 46204-2254~~

~~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 an "authorized individual" 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 Licensed Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Licensed Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement to use an Indiana Licensed Asbestos inspector is not federally enforceable.~~

Testing Requirements

G.5 Performance Testing [326 IAC 3-6]

- ~~(a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start up, if specified in Section D of this approval. 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 and Enforcement Branch, Office of Air Quality
100 North Senate Avenue,
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2254

no later than thirty five (35) days prior to the intended test date.

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual date.
- (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 the 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.6 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

C.7 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.8 Maintenance of Continuous Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.
- (b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.
- (c) Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.
- (d) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to T089-10557-00151.

C.9 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.

C.10 Response to Excursions or Exceedances

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

Record Keeping and Reporting Requirements

C.11 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- ~~(a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.~~
- ~~(b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.~~

~~(c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).~~

~~(d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]~~

~~C.12 General Record Keeping Requirements [326 IAC 2-6.1-5]~~

~~(a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.~~

~~(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented when operation begins.~~

~~C.13 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]~~

~~(a) Reports required by conditions in Section D of this permit shall be submitted to:~~

~~Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue,
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2254~~

~~(b) 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.~~

~~(c) Unless otherwise specified in this permit, any semi-annual report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

~~(d) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. 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.~~

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, M089-29184-00151, is issued for a fixed term of ten (10) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

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

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

B.7 Duty to Provide Information

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

B.8 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 of each year to:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) The notification 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.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If, due to circumstances beyond the Permittee's control, the PMPs cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

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

The Permittee shall implement the PMPs.

- (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.
- (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.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M089-29184-00151 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least one hundred twenty (120) days 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 2-6.1 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

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

- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][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 permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request.
[326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) 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.18 Credible Evidence [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 2-6.1-5(a)(1)]

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

C.7 Fugitive Particulate Matter Emissions [326 IAC 6.8-10-3]

Pursuant to 326 IAC 6.8-10-3 (formerly 326 IAC 6-1-11.1) (Lake County Fugitive Particulate Matter Control Requirements), the particulate matter emissions from source wide activities shall meet the following requirements:

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The opacity of fugitive particulate emissions from exposed areas shall not exceed ten percent (10%) on a six (6) minute average.
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.
- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) Material processing facilities shall include the following:
 - (1) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
 - (2) The PM_{10} emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (3) The PM_{10} stack emissions from a material processing facility shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
 - (4) The opacity of fugitive particulate emissions from the material processing facilities, except a crusher at which a capture system is not used, shall not exceed ten percent (10%) opacity.
 - (5) The opacity of fugitive particulate emissions from a crusher at which a capture system is not used shall not exceed fifteen percent (15%).
- (i) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (j) Material transfer limits shall be as follows:

- (1) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (2) Where adequate wetting of the material for fugitive particulate emissions control is prohibitive to further processing or reuse of the material, the opacity shall not exceed ten percent (10%), three (3) minute average.
- (3) Slag and kish handling activities at integrated iron and steel plants shall comply with the following particulate emissions limits:
 - (A) The opacity of fugitive particulate emissions from transfer from pots and trucks into pits shall not exceed twenty percent (20%) on a six (6) minute average.
 - (B) The opacity of fugitive particulate emissions from transfer from pits into front end loaders and from transfer from front end loaders into trucks shall comply with the fugitive particulate emission limits in 326 IAC 6.8-10-3(9).
- (k) Any facility or operation not specified in 326 IAC 6.8-10-3 shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the attached Fugitive Dust Control Plan.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

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

Testing Requirements [326 IAC 2-6.1-5(a)(2)]

C.9 Performance Testing [326 IAC 3-6]

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

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

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

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (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.10 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 2-6.1-5(a)(2)]

C.11 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.12 Instrument Specifications [326 IAC 2-1.1-11]

- (a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.
- (b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.

Corrective Actions and Response Steps

C.13 Response to Excursions or Exceedances

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

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

- (d) **Failure to take reasonable response steps shall be considered a deviation from the permit.**
- (e) **The Permittee shall record the reasonable response steps taken.**

C.14 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) **When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.**
- (b) **A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) days is not practicable, IDEM, OAQ may extend the retesting deadline**
- (c) **IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.**

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.15 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) **A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.**
- (b) **When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.**
- (c) **Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).**
- (d) **Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]**

C.16 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (a) **Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.**

- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.

C.17 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

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

- (b) 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.
- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. 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.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on April 20, 2010.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed MSOP Minor Revision No. 089-27475-00151. The staff recommends to the Commissioner that this MSOP Minor Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Deborah Cole at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5377 or toll free at 1-800-451-6027 extension 4-5377.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Appendix A: Emissions Calculations

Company Name: Beaver Oil Company, Inc.
Address City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit Number: 089-18800-00151
Plt ID: 089-00151
Reviewer: Deborah Cole
Date: May 14, 2010

Uncontrolled Potential Emissions (tons/year)						
Emissions Generating Activity						
Pollutant	Boilers 1 - 3 (Natural Gas)	Boilers 1 - 3 (Fuel Oil)	Existing Tanks	New Tanks	Equipment Leaks	TOTAL
PM	0.17	2.16	-		-	2.16
PM10	0.70	2.16	-		-	2.16
PM 2.5	0.70	2.16	-		-	2.16
SO₂	2.61	51.40	-		-	51.40
NO_x	9.17	15.72	-		-	15.72
VOC	0.50	0.13	9.89	1.80	0.05	12.25
CO	7.70	3.27	-		-	7.70
Single HAP (Methanol)	-	-	6.43		0.05	6.48
Combined HAPs	0.17	0.00	6.53		0.05	6.76

Note:

Worst case emissions from fuel usage used for total emissions.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
Boilers 1 - 3**

Company Name: Beaver Oil Company, Inc.
Address City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit Number: 089-18800-00151
Plt ID: 089-00151
Reviewer: Jason R. Krawczyk
Date: February 12, 2009

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Emission Unit ID
4.19	36.7	Boiler-1
8.37	73.3	Boiler-2
8.37	73.3	Boiler-3
20.9	183.3	

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	28.5	100	5.5	84
				**see below		
Potential Emission in tons/yr	0.17	0.70	2.61	9.17	0.50	7.70

*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

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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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

See page 2 for HAPs emissions calculations.

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
Boilers 1 - 3
HAPs Emissions**

Company Name: Beaver Oil Company, Inc.
Address City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit Number: 089-29184-00151
Pit ID: 089-00151
Reviewer: Deborah Cole
Date: May 14, 2010

HAPs - Organics					
Emission Factor in lb/MMcf	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.925E-04	1.100E-04	6.876E-03	1.650E-01	3.117E-04

HAPs - Metals					
Emission Factor in lb/MMcf	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	4.584E-05	1.008E-04	1.283E-04	3.484E-05	1.925E-04

Methodology is the same as page 1.

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: Emissions Calculations

#2 Fuel Oil Combustion

Boilers 1 - 3

Company Name: Beaver Oil Company, Inc.
Address City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit Number: 089-18800-00151
Plt ID: 089-00151
Reviewer: Deborah Cole
Date: May 14, 2010

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur 0.5	Emission Unit ID
4.19	262.17		Boiler-1
8.37	523.72		Boiler-2
8.37	523.72		Boiler-3
20.93	1309.62		

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2 (157S)	NOx	VOC	CO
Potential Emission in tons/yr	2.16	51.40	15.72	0.13	3.27

Methodology

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

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

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

*PM emission factor is filterable and condensable PM.

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

Appendix A: Emissions Calculations**#2 Fuel Oil Combustion****Boilers 1 - 3****HAPs Emissions**

Company Name: Beaver Oil Company, Inc.
Address City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit Number: 089-27475-00151
Plt ID: 089-00151
Reviewer: Jason R. Krawczyk
Date: February 12, 2009

HAPs - Metals					
Emission Factor in lb/mmBtu	Arsenic 4.0E-06	Beryllium 3.0E-06	Cadmium 3.0E-06	Chromium 3.0E-06	Lead 9.0E-06
Potential Emission in tons/yr	3.67E-04	2.75E-04	2.75E-04	2.75E-04	8.25E-04

HAPs - Metals (continued)				
Emission Factor in lb/mmBtu	Mercury 3.0E-06	Manganese 6.0E-06	Nickel 3.0E-06	Selenium 1.5E-05
Potential Emission in tons/yr	2.75E-04	5.50E-04	2.75E-04	1.38E-03

Methodology

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

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

**Appendix A: Emissions Calculations
Storage Tank Summary for NOC**

Company Name: Beaver Oil Company, Inc.
Address City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit Number: 089-18800-00151
Plt ID: 089-00151
Reviewer: Deborah Cole
Date: May 14, 2010

New Tanks - Notice Only Change No. 089-29184-00151

Tank ID	Description	Material Stored	Temperature (deg. F)	Calculated vapor pressure (mm)	Capacity (gallons)	Annual Throughput (gallons)	Annual Losses (tons/yr)
New Tanks							
R7	vertical fixed roof	material in process	250		5,000	1,825,000	0.436
R8	vertical fixed roof	material in process	250		5,000	2,190,000	0.436
SF4	vertical fixed roof	surfactant and water	ambient		6,000	12,000	0.000
SF5	vertical fixed roof	surfactant and water	ambient		9,000	18,000	0.000
Tank 13	vertical fixed roof	material in process	180	14.2	20,000		0.029
Tank 14	vertical fixed roof	material in process	180	14.2	20,000		0.029
Modified Tanks							
Still 1(converted Tank 8A)	vertical fixed roof	material in process	250		1,000	4,380,000	0.436
Still 2	vertical fixed roof	material in process	250		2,000	3,650,000	0.436
Total VOC Emissions from new tanks (tons/year):							1.802

**Appendix A: Emissions Calculations
Storage Tank Summary**

Company Name: Beaver Oil Company, Inc.
Address City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit Number: 089-18800-00151
Pit ID: 089-00151
Reviewer: Deborah Cole
Date: May 14, 2010

Tank ID	Description	Material Stored	Temperature (deg. F)	Calculated vapor pressure (mm)	Capacity (gallons)	Annual Throughput (gallons)	Annual Losses (tons/yr)
Existing Tanks							
F1	horizontal fixed roof	finished product	150	7.5	15,275	43,839	0.0009
F2	horizontal fixed roof	finished product	150	7.5	15,275	43,839	0.0009
F3	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F4	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
FP-1	horizontal fixed roof	finished product	150	7.5	4,894	13,988	0.0003
FT-1	horizontal fixed roof	finished product	150	7.5	3,854	263,305	0.0558
FT-2	horizontal fixed roof	finished product	150	7.5	4,174	285,167	0.0600
R1	vertical fixed roof	material in process	180	14.2	3,600	882,756	0.0259
R2	vertical fixed roof	material in process	180	14.2	3,600	882,756	0.0259
R3	vertical fixed roof	material in process	180	14.2	6,017	1,475,429	0.0433
S1	horizontal fixed roof	raw material	150	7.5	15,275	1,043,588	0.2210
S3	horizontal fixed roof	raw material	150	7.5	15,275	1,043,588	0.2210
S4	horizontal fixed roof	raw material	150	7.5	15,275	1,043,588	0.2210
S5	horizontal fixed roof	raw material	150	7.5	15,275	1,043,588	0.2210
T1	vertical fixed roof	material in process	180	7.5	4,700	1,152,487	0.0339
T2	vertical fixed roof	material in process	180	7.5	4,700	1,152,487	0.0339
T3	vertical fixed roof	raw material	150	7.5	7,050	481,656	0.1020
T4	vertical fixed roof	raw material	150	7.5	7,050	481,656	0.1020
T5	vertical fixed roof	raw material	150	7.5	7,050	481,656	0.1020
T6	vertical fixed roof	soapy wash water	ambient	N/A	7,050	N/A	N/A
T7	horizontal fixed roof	raw material	150	7.5	5,325	363,804	0.0770
T8B	vertical fixed roof	raw material	150	7.5	5,268	361,276	0.0766
T9	vertical fixed roof	raw material	150	7.5	5,000	341,600	0.0725
T12	vertical fixed roof	material in process	180	14.2	15,000	3,678,150	0.1081
F5	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F6	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F7	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F8	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F9	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F10	vertical fixed roof	fuel oil bulk storage	ambient	N/A	20,000	N/A	N/A
F11	vertical fixed roof	finished product	150	7.5	33,000	71,750	0.0020
F12	vertical fixed roof	finished product	150	7.5	30,000	71,750	0.0018
F13	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F14	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F15	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F16	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F17	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
F18	vertical fixed roof	finished product	150	7.5	25,000	71,750	0.0015
S8	vertical fixed roof	raw material	150	7.5	10,000	683,200	0.1450
AF1	horizontal fixed roof	antifreeze storage	ambient	N/A	3,000	N/A	N/A
AF2	horizontal fixed roof	antifreeze storage	ambient	N/A	3,000	N/A	N/A
BF1	vertical fixed roof	boiler fuel oil	ambient	N/A	5,000	N/A	N/A
BF2	vertical fixed roof	boiler fuel oil	ambient	N/A	5,000	N/A	N/A
FP2	vertical fixed roof	finished product	150	7.5	630,000	1,808,100	0.0378
FP3	vertical fixed roof	finished product	150	7.5	630,000	1,808,100	0.0378
FP4	vertical fixed roof	finished product	150	7.5	146,000	419,020	0.0088
FP5	vertical fixed roof	finished product	150	7.5	146,000	419,020	0.0088
SF1	vertical fixed roof	raw material	150	7.5	25,000	1,708,000	0.3625
SF2	vertical fixed roof	raw material	150	7.5	25,000	1,798,000	0.3625
SF3	vertical fixed roof	raw material	150	7.5	30,000	2,049,600	0.4350
E-W Sump Tank	vertical fixed roof	process water	N/A	N/A	2,120	N/A	N/A
FP6	vertical fixed roof	finished product	150	7.5	1,000,000	2,118,060	0.0443
T-10	vertical fixed roof	process	180	14.2	13,000	3,187,730	0.0930
T-11	vertical fixed roof	process	180	14.2	13,000	3,187,730	0.0930
R4	vertical fixed roof	material in process (methanol)	250		2,000	4,380,000	2.9725
R5	vertical fixed roof	material in process (methanol)	250		1,000	4,380,000	1.4862
R6	vertical fixed roof	material in process (methanol)	250		1,000	4,380,000	1.4862
S2	horizontal fixed roof	35% Methanol Mix	ambient	82.3	15,275	4,380,000	0.2214
IS1	vertical fixed roof	80% Methanol Mix	ambient	178.6	12,000	4,380,000	0.2654

TOTAL VOC EMISSIONS from all tanks (ton/yr)							9.89
SINGLE HAP (Methanol) EMISSIONS from all tanks (ton/yr)							6.43
TOTAL HAPs EMISSIONS from all tanks (ton/yr)							6.53

Note: Emissions from the tanks are provided by the source and are based on vapor pressure data determined through laboratory tests and U.S. EPA Tanks 4.0d calculations.

**Emission Calculations
VOC and HAP Emissions
From Equipment Leaks**

Company Name: Beaver Oil Company, Inc.
Address City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit Number: 089-18800-00151
Plt ID: 089-00151
Reviewer: Deborah Cole
Date: May 14, 2010

1. Fugitive VOC Emissions:

Process Stream	Equipment Component Source	Product	Component Count	Emission Factor (kg/comp.-hr)	Emission Factor (lb/comp.-hr)	Uncondensed Rate (lb/hr)	Subpart VVa Condenser Effectiveness 40 CFR 60.482-10a	Condensed Rate (lb/hr)	TOC Weight (%)	Emitted Water (lb/hr)	Emitted TOC (lb/hr)	Emitted TOC (ton/yr)
Methanol Recovery System	Valves	Gas/Vapor	0	0.00597	0.01316	0.00	95.00%	0.000	90.00%	0.000	0.000	0.000
	Valves	Light Liquid	0	0.00403	0.00888	0.00	95.00%	0.000	90.00%	0.000	0.000	0.000
	Valves	Heavy Liquid	0	0.00023	0.00051	0.00	95.00%	0.000	90.00%	0.000	0.000	0.000
	Pump Seals	Light Liquid	4	0.01990	0.04387	0.08	95.00%	0.004	90.00%	0.000	0.004	0.016
	Pump Seals	Heavy Liquid	3	0.00862	0.01900	0.03	95.00%	0.001	90.00%	0.000	0.001	0.005
	Compressor Seals	Gas/Vapor	0	0.22800	0.50265	0.00	95.00%	0.000	90.00%	0.000	0.000	0.000
	Pressure-Relief Valves	Gas/Vapor	0	0.10400	0.22928	0.00	95.00%	0.000	90.00%	0.000	0.000	0.000
	Connectors	All	2	0.00183	0.00403	0.00	95.00%	0.000	90.00%	0.000	0.000	0.001
	Open Ended Lines	All	0	0.00170	0.00375	0.00	95.00%	0.000	90.00%	0.000	0.000	0.000
	Sampling Connections	All	6	0.01500	0.03307	0.09	95.00%	0.005	90.00%	0.000	0.004	0.018
	Agitator Seals	All	3	0.0199	0.04387	0.060	95.00%	0.003	90.00%	0.000	0.003	0.012
	Totals						0.26		0.01		0.00	0.01

Methodology

* Component count given by source.

** Emission factors are from Protocol for Equipment leak Emission Estimates, EPA-453/R-95-017. Table 2-12.

2. Fugitive HAP Emissions:

Fugitive HAP Emissions (tons/yr) = Fugitive VOC Emissions (tons/yr) x HAP Fraction

HAP	HAP Fraction*	Fugitive HAP Emissions (tons/yr)
Methanol	1.00E+00	5.10E-02
Total		0.05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Roger Vintika
Beaver Oil Company, Inc.
6037 Lenzi Ave
Hodgkins, IL 46206-6015

DATE: May 27, 2010

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

SUBJECT: Final Decision
MSOP
089-29184-00151

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 5/27/2010 Beaver Oil Company, Inc. 089-29184-00151 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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2		Brad Dow plant Mgr Beaver Oil Company, Inc. 1040 Michigan St Gary IN 46402 (RO CAATS)										
3		Suresh Rao Environment, Inc. 1752 West Armitage Court Addison IL 30101 (Consultant)										
4		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)										
5		Gary Mayors Office 401 Broadway # 203 Gary IN 46402 (Local Official)										
6		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)										
7		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)										
8		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)										
9		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)										
10		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)										
11		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)										
12		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)										
13		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)										
14		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)										
15		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)										

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IDEM Staff	CDENNY 5/27/2010 Beaver Oil Company, Inc. 089-29184-00151 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee	Remarks
1		Barbara G. 506 Lilac Street East Chicago IN 46312 (Affected Party)										
2		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
3		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
4		Calumet Township Trustee 31 E 5th Avenue Gary IN 46402 (Affected Party)										
5		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
6		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
7		Doreen Carey Gary Dept. of Environmental Affairs 839 Broadway N206 Gary IN 46402 (Local Official)										
8												
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