



Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant
DATE: November 3, 2005
RE: Beaver Oil Company / 089-21810-00151
FROM: Paul Dubenetzky
Chief, Permits Branch
Office of Air Quality

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-17-3-4 and 326 IAC 2, this approval is effective immediately, unless a petition for stay of effectiveness is filed and granted, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of 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-MOD.dot 1/10/05



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

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Mr. Lee Fahrner
Beaver Oil Co., Inc.
1040 Michigan Street,
Gary, IN 46402

November 3, 2005

Re: 089-21810-00151
First Minor Permit Revision to
MSOP 089-18800-00151

Dear Mr. Fahrner:

Beaver Oil Co., Inc. was issued a permit on January 21, 2005 for a stationary centralized waste treatment plant producing secondary fuel and lubricating oil. A letter requesting changes to this permit was received on September 28, 2005. Pursuant to the provisions of 326 IAC 2-6.1-6 a minor permit revision to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the construction and operation of following emissions units:

- (a) two (2) 25,000 gallon vertical fixed roof liquid storage tanks, designated as SF1 and SF2, storing raw material;
- (b) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated as SF3, storing raw material;
- (c) one (1) 2,120 gallon vertical fixed roof liquid storage tank, designated as E-W Sump Tank, storing process water;
- (d) one (1) 12,000 gallon vertical fixed roof liquid storage tank, designated as IS 1, storing raw material;
- (e) one (1) 1,000,000 gallon vertical fixed roof liquid storage tank, designated as FP6, storing finished product;
- (f) two (2) 13,000 gallon vertical fixed roof liquid storage tanks, designated as T10 and T11, storing finished product oil; and
- (g) 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 following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-6.1-6, this permit shall be revised by incorporating the minor permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please find attached the entire revised MSOP permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Adeel Yousuf, c/o OAQ, 100 North Senate Avenue, Indianapolis, Indiana, 46204, or at 973-575-2555, extension 3252, or dial 1-800-451-6027, and ask for extension 3-6878.

Sincerely,

Original Signed By:
Nysa L. James, Section Chief
Permits Branch
Office of Air Quality

Attachments
AY/EVP

cc: File – Lake County
U.S. EPA, Region V
Gary Department of Environmental Affairs
Lake County Health Department
Northwest Regional Office
Air Compliance Section Inspector
Compliance Data Section
Administrative and Development
Technical Support and Modeling - Michele Boner



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MINOR SOURCE OPERATING PERMIT RENEWAL OFFICE OF AIR QUALITY

and

Gary Department of Environmental Affairs

**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 emission units 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.

Operation Permit No.: MSOP 089-18800-00151	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: January 31, 2005 Expiration Date: January 31, 2010

First Minor Permit Revision: 089-21810-00151	
Issued by: Original Signed By: Nysa James, Section Chief Office of Air Quality	Issuance Date: November 3, 2005

TABLE OF CONTENTS

A	SOURCE SUMMARY	4
A.1	General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]	
A.2	Emission Units and Pollution Control Equipment Summary	
B	GENERAL CONDITIONS	7
B.1	Permit No Defense [IC 13]	
B.2	Definitions	
B.3	Effective Date of the Permit [IC 13-15-5-3]	
B.4	Permit Term and Renewal [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5]	
B.5	Modification to Permit [326 IAC 2]	
B.6	Annual Notification [326 IAC 2-6.1-5(a)(5)]	
B.7	Preventive Maintenance Plan [326 IAC 1-6-3]	
B.8	Permit Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]	
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] [IC 13-17-3-2][IC 13-30-3-1]	
B.10	Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]	
B.11	Annual Fee Payment [326 IAC 2-1.1-7]	
C	SOURCE OPERATION CONDITIONS	11
C.1	Permit Revocation [326 IAC 2-1.1-9]	
C.2	Opacity [326 IAC 5-1]	
C.3	Fugitive Dust Emissions [326 IAC 6-4]	
C.4	Asbestos Abatement Projects [326 IAC 14-10][326 IAC 18][40 CFR 61, Subpart M]	
C.5	Performance Testing [326 IAC 3-6]	
C.6	Compliance Requirements [326 IAC 2-1.1-11]	
C.7	Compliance Monitoring [326 IAC 2-1.1-11]	
C.8	Maintenance of Continuous Emission Monitoring Equipment	
C.9	Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]	
C.10	Compliance Response Plan - Preparation and Implementation	
	Record Keeping and Reporting Requirements	
C.11	Malfunctions Report [326 IAC 1-6-2]	
C.12	General Record Keeping Requirements [326 IAC 2-6.1-2]	
C.13	General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]	
D.1	EMISSIONS UNIT OPERATION CONDITIONS - Natural Gas & Fuel Oil Fired Boilers	17
	Emission Limitations and Standards	
D.1.1	Particulate [326 IAC 6-2-4]	
D.1.2	Sulfur Content	
D.1.3	Preventive Maintenance Plan [326 IAC 1-6-3]	
	Compliance Determination Requirements	
D.1.4	Sulfur Dioxide Emissions and Sulfur Content	
	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	
	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	
D.1.7	Reporting Requirements	

D.2 EMISSIONS UNIT OPERATION CONDITIONS – Storage Tanks 20

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

D.2.1 Record Keeping Requirements

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

Annual Notification 23

Malfunction Report 24

Semi-Annual Natural Gas Fired boiler Certification.....26

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and Gary Department of Environmental Affairs. 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.

Authorized Individual: President
Source Address: 1040 Michigan Street, Gary IN 46402
Mailing Address: 1040 Michigan Street, Gary IN 46402
General Source Phone: 219-881-9234
SIC Code: 2992
County Location: Lake
Source Location Status: Severe Nonattainment for 1-hour Ozone
Moderate Nonattainment for 8-hour Ozone
Nonattainment for PM_{2.5} and SO₂
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

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) five (5) 25,000 gallon vertical fixed roof liquid storage tanks, designated F5 through F9, storing finished product oil;
- (d) one (1) 20,000 gallon vertical fixed roof liquid storage tank, designated F10, storing No. 2 fuel oil;
- (e) one (1) 33,000 gallon vertical fixed roof liquid storage tank, designated F11, storing finished product oil;
- (f) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated F12, storing finished product oil;
- (g) one (1) 10,000 gallon vertical fixed roof liquid storage tank, designated S8, storing incoming raw material;

- (h) two (2) 10,000 gallon vertical fixed roof liquid storage tanks, designated T10 and T11, storing finished product oil;
- (i) two (2) 3,000 gallon horizontal fixed roof liquid storage tanks, designated AF1 and AF2, storing antifreeze (ethylene glycol);
- (j) two (2) 5,000 gallon vertical fixed roof liquid storage tanks, designated BF1 and BF2, storing No. 2 fuel oil.
- (k) two (2) 15,275 gallon horizontal fixed roof liquid storage tanks, designated F1 and F2, storing finished product oil;
- (l) 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;
- (m) 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;
- (n) 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;
- (o) five (5) 15,275 gallon horizontal fixed roof liquid storage tanks, designated S1 through S5, storing incoming raw material;
- (p) two (2) 4700 gallon vertical fixed roof liquid storage tanks, designated T1 and T2, for processing raw material;
- (q) three (3) 7050 gallon vertical fixed roof liquid storage tanks, designated T3 through T5, storing incoming raw material;
- (r) one (1) 7050 gallon vertical fixed roof liquid storage tank, designated T6, storing wash water;
- (s) one (1) 5325 gallon horizontal fixed roof liquid storage tank, designated T7, storing incoming raw material;
- (t) three (3) 5288 gallon vertical fixed roof liquid storage tanks, designated T8A, T8B and T9, storing incoming raw material;
- (u) one (1) 15,000 gallon vertical fixed roof liquid storage tank, designated T12, for processing raw material;
- (v) two (2) 25,000 gallon vertical fixed roof liquid storage tanks, designated as SF1 and SF2, storing raw material;
- (w) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated as SF3, storing raw material;
- (x) one (1) 2,120 gallon vertical fixed roof liquid storage tank, designated as E-W Sump Tank, storing process water;
- (y) one (1) 12,000 gallon vertical fixed roof liquid storage tank, designated as IS 1, storing raw material;

- (z) one (1) 1,000,000 gallon vertical fixed roof liquid storage tank, designated as FP6, storing finished product; and
- (aa) 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.

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

The Permittee shall apply for an operation permit renewal at least ninety (90) 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 Branch, Office of Air Quality
Indiana Department of Environmental Management
100 North Senate Avenue,
Indianapolis, IN 46204-2251

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

- (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, and Gary Department of Environmental Affairs 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) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, and Gary Department of Environmental Affairs, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, Gary Department of Environmental Affairs. IDEM, OAQ, Gary Department of Environmental Affairs 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).
- (d) 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
Permits Branch, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

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

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

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

Testing Requirements

C.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 Data Section, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

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 (and local agency) not later than forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAQ, (and local agency), 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 Compliance Response Plan - Preparation and Implementation

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ and Gary Department of Environmental Affairs upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.
 - (3) An automatic measurement was taken when the process was not operating.
 - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

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 or Gary Department of Environmental Affairs makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or Gary Department of Environmental Affairs 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 Data Section, Office of Air Quality
100 North Senate Avenue,
Indianapolis, Indiana 46204-2251

and

Gary Department of Environmental Affairs
Suite 1012
504 N. Broadway
Gary, IN 46402

- (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, and Gary Department of Environmental Affairs 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 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, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

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 shift 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) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation and Implementation 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 exhaust once per shift when combusting fuel oil.
- (c) To document compliance with Condition D.1.3, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.7 Reporting Requirements

- (a) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.
- (b) A semi-annual summary of the information to document compliance with Condition D.1.2 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (a) five (5) 25,000 gallon vertical fixed roof liquid storage tanks, designated F5 through F9, storing finished product oil;
- (b) one (1) 20,000 gallon vertical fixed roof liquid storage tank, designated F10, storing No. 2 fuel oil;
- (c) one (1) 33,000 gallon vertical fixed roof liquid storage tank, designated F11, storing finished product oil;
- (d) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated F12, storing finished product oil;
- (e) one (1) 10,000 gallon vertical fixed roof liquid storage tank, designated S8, storing incoming raw material;
- (f) two (2) 10,000 gallon vertical fixed roof liquid storage tanks, designated T10 and T11, storing finished product oil;
- (g) two (2) 3,000 gallon horizontal fixed roof liquid storage tanks, designated AF1 and AF2, storing antifreeze (ethylene glycol); and
- (h) two (2) 5,000 gallon vertical fixed roof liquid storage tanks, designated BF1 and BF2, storing No. 2 fuel oil.
- (i) two (2) 15,275 gallon horizontal fixed roof liquid storage tanks, designated F1 and F2, storing finished product oil;
- (j) 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;
- (k) 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;
- (l) 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;
- (m) five (5) 15,275 gallon horizontal fixed roof liquid storage tanks, designated S1 through S5, storing incoming raw material;
- (n) two (2) 4700 gallon vertical fixed roof liquid storage tanks, designated T1 and T2, for processing raw material;
- (o) three (3) 7050 gallon vertical fixed roof liquid storage tanks, designated T3 through T5, storing incoming raw material;
- (p) one (1) 7050 gallon vertical fixed roof liquid storage tank, designated T6, storing wash water;
- (q) one (1) 5325 gallon horizontal fixed roof liquid storage tank, designated T7, storing incoming raw material;

List of emission units continued from previous page as follows:

- (r) three (3) 5288 gallon vertical fixed roof liquid storage tanks, designated T8A, T8B and T9, storing incoming raw material;
- (s) one (1) 15,000 gallon vertical fixed roof liquid storage tank, designated T12, for processing raw material'
- (t) two (2) 25,000 gallon vertical fixed roof liquid storage tanks, designated as SF1 and SF2, storing raw material;
- (u) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated as SF3, storing raw material;
- (v) one (1) 2,120 gallon vertical fixed roof liquid storage tank, designated as E-W Sump Tank, storing process water;
- (w) one (1) 12,000 gallon vertical fixed roof liquid storage tank, designated as IS 1, storing raw material; and
- (x) one (1) 1,000,000 gallon vertical fixed roof liquid storage tank, designated as FP6, storing finished product.

(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, F10, F11, F12, SF1, SF2, SF3, and 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, 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, and T-11 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.

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

**and
Gary Department of Environmental Affairs**

**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 **[source]** is still in operation.
 no longer in operation.

I hereby certify that **[source]** 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:

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 DATA SECTION**

AND

GARY DEPARTMENT OF ENVIRONMENTAL AFFAIRS

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

- Natural Gas Only
 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**

and

Gary Department of Environmental Affairs

Technical Support Document (TSD) for a Minor Source Operating Permit Revision

Source Background and Description

Source Name:	Beaver Oil Company, Inc.
Source Location:	1040 Michigan Street, Gary, Indiana 46402
County:	Lake
SIC Code:	2992
Operation Permit No.:	089-18800-00151
Operation Permit Issuance Date:	January 31, 2005
Permit Revision No.:	089-21810-00151
Permit Reviewer:	Adeel Yousuf / EVP

The Office of Air Quality (OAQ) has reviewed an application from Beaver Oil Company, Inc. relating to the addition of six (6) new storage tanks, modification of two (2) existing tanks, and inclusion of one (1) boiler in the permit.

Permitted Emission Units and Pollution Control Equipment

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

- (a) two (2) 25,000 gallon vertical fixed roof liquid storage tanks, designated as SF1 and SF2, storing raw material;
- (b) one (1) 30,000 gallon vertical fixed roof liquid storage tank, designated as SF3, storing raw material;
- (c) one (1) 2,120 gallon vertical fixed roof liquid storage tank, designated as E-W Sump Tank, storing process water;
- (d) one (1) 12,000 gallon vertical fixed roof liquid storage tank, designated as IS 1, storing raw material;
- (e) one (1) 1,000,000 gallon vertical fixed roof liquid storage tank, designated as FP6, storing finished product;
- (f) two (2) 13,000 gallon vertical fixed roof liquid storage tanks, designated as T10 and T11, storing finished product oil. *These are existing tanks which are being modified to increase the storage capacity from 10,000 to 13,000 gallons in this permit revision; and*

- (g) 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. *Boiler-3 was inadvertently omitted from the MSOP renewal permit (089-18800-00151), issued on January 1, 2005. This boiler was originally permitted, in the Notice Only Change No. 089-15286-00151, issued on February 19, 2002, to burn natural gas only. However, Boiler-3 is being permitted to burn No. 2 fuel oil as a back up fuel in this permit revision.*

Unpermitted Emission Units and Pollution Control Equipment

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

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) MSOP Renewal 089-18800-00151, issued on January 21, 2005.

All conditions from previous approvals were incorporated into this permit.

Justification for the Revision

The MSOP is being modified through a Minor Permit Revision. This revision is being performed pursuant to 326 IAC 2-6.1-6(g)(4), as a modification that would have a potential to emit less than twenty five (25) tons per year and greater than ten (10) tons per year of NOx.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the construction and operation be approved. This recommendation is based on the following facts and conditions:

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

A complete application for the purposes of this review was received on September 28, 2005.

Emission Calculations

See Appendix A of this document for detailed emission calculations, six (6) pages.

Potential to Emit of the Revision Before Controls

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

Pollutant	Potential to Emit (tons/yr)
PM	0.90
PM-10	0.90
SO ₂	18.60
VOC	1.76
CO	3.10
NO _x	5.20

HAPs	Potential to Emit (tons/yr)
Benzene	0.10
Hexane	0.066
Others	0.004
Total	0.17

- (a) The potential to emit for this modification (as defined in 326 IAC 2-6.1-6(g)(4)), of SO₂ is less than 25 tons per year, and greater than 10 tons per year. Therefore, the modification requires a Minor Permit Revision.
- (b) Fugitive Emissions
 Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	Attainment
PM-2.5	Non-attainment
SO ₂	Primary Non-attainment
NO ₂	Attainment
1-hour Ozone	Severe Non-attainment
8-hour Ozone	Moderate Non-attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
- (1) 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 NO_x threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Lake County has been designated as nonattainment in Indiana for the 1-hour ozone standard. 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.

- (2) 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.
- (b) U.S.EPA in 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 non-attainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as surrogate for PM2.5 emissions pursuant to the Non-attainment New Source Review requirements. See the State Rule Applicability for the source section.
- (c) Lake County has been classified as attainment in Indiana for PM₁₀, CO and Pb. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Lake County has been classified as primary nonattainment in Indiana for SO₂. Therefore, SO₂ emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

Source Status

Existing Source PSD, Part 70, or FESOP Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	1.7
PM ₁₀	1.7
SO ₂	27.90
VOC	3.75
CO	6.60
NO _x	13.30
Single HAP	0.10
Combination HAPs	0.12

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories.
- (b) This existing source is not a major stationary source because PM₁₀, SO₂, and NO_x are emitted at a rate of less than 100 tons per year and VOC is emitted at the rate of less than 25 tons per year and it is not in one of the 28 listed source categories.
- (c) These emissions were based on MSOP Renewal No. 089-18800-00151 issued on January 31, 2005.

Proposed Modification

PTE from the proposed modification (based on 8760 hours of operation per year at rated capacity including enforceable emission control and production limit where applicable):

	PM (ton/yr)	PM-10 (ton/yr)	SO ₂ (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO _x (ton/yr)	Total HAPs (ton/yr)
Proposed Modification	0.90	0.90	18.60	1.76	3.10	5.20	0.10 (single) 0.17 (total)
Existing Source	1.70	1.70	27.90	3.75 2.36 *	6.60	13.30	0.10 (single) 0.12 (total)
Total Sourcewide	2.60	2.60	46.50	4.12	9.70	18.50	0.10 (single) 0.29 (total)
PSD or Offset Threshold Level	< 250	< 250	< 250	< 100	< 250	< 100	< 25

* VOC emission from existing units is revised due to the re-configuration of annual throughputs of various storage tanks.

This modification to an existing minor stationary source is not major because the emission increase is less than the PSD major source levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit 089-21810-00151, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This status is based on all the air approvals issued to the source. This status has been verified by the OAQ inspector assigned to the source.

Federal Rule Applicability

- (a) The requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.40c, Subpart Dc) are not included in the permit for one (1) Johnston boiler, identified as Boiler-3 with a maximum heat input capacity of 8.37 MMBtu per hour because the boiler's capacity is less than the rule applicability threshold of 10 MMBtu per hour.
- (b) Four (4) storage tanks identified as SF1, SF2, SF3, and FP6 are subject to the requirements of the New Source Performance Standard, (40 CFR Parts 60.110b, Subpart Kb) because these tanks are being constructed after July 23, 1984, and have capacities greater than 19,820 gallons (75 cubic meters). Records of capacity and dimension shall be kept for each of these tanks pursuant to this rule for the life of the source.
- (c) The requirements of the New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60), 40 CFR 60.110b, Subpart Kb are not included in this permit for the four (4) storage tanks identified as E-W Sump Tank, IS1, T-10 and T-11 because each tank has a storage capacity less than 19,820 gallons (75 cubic meters).

- (d) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP), 326 IAC 20, (40 CFR Part 63, Subpart DDDDD) are not included in the permit for one (1) Johnston boiler, identified as Boiler-3 with a maximum heat input capacity of 8.37 MMBtu per hour because this source is not a major source of HAP. The source has potential emissions of any combination of HAPs and any single HAP of less than 25 and 10 tons per twelve (12) consecutive month period, respectively.
- (e) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) included in the permit for this revision.

State Rule Applicability – Entire Source

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

This source is not subject to this rule because potential uncontrolled emissions of all criteria pollutants are less than 250 tons per year. This source is also not one of the 28 listed source categories. Therefore, this source is not subject to the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)).

326 IAC 2-3 (Emission Offset)

- (a) This source is located in Lake County, which is a severe nonattainment area for the 1 hour ozone standard, a moderate nonattainment area for the 8-hour ozone standard, and a primary nonattainment area for SO₂. The potential to emit VOC from this source is less than 25 tons/yr, and the potential to emit for each, NO_x and SO₂ from this source is less than 100 tons/yr. Therefore, this source is not subject to the requirements of 326 IAC 2-3 (Emission Offset).
- (b) Lake County has been designated as non-attainment for PM 2.5 in 70 FR 943 dated January 5, 2005. According to the April 5, 2005 EPA memo titled "Implementation of New Source Review Requirements in PM2.5 Nonattainment Areas" authored by Steve Page, Director of OAQPS, until EPA promulgates the PM 2.5 major NSR regulations, states should assume that a major stationary source's PM10 emissions represent PM2.5 emissions. IDEM will use the PM10 nonattainment major NSR program as a surrogate to address the requirements of nonattainment major NSR for the PM2.5 NAAQS. A major source in a nonattainment area as a source that emits or has the potential to emit 100 tpy of any regulated pollutant. Based on this designation, this source is a minor source because it has a potential to emit of PM10 at less than the major applicability threshold of 100 tons per year. Therefore, assuming that PM10 emissions represent PM2.5 emissions, 326 IAC 2-3 does not apply.

326 IAC 2-6 (Emission Reporting)

This source is located in Lake County and the potential to emit of VOC and NO_x is less than twenty-five (25) tons per year. The source is not one of the twenty-eight (28) listed sources and it is not required to have an operating permit under 326 IAC 2-7 (Part 70). Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

- (a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period unless otherwise specified in 326 IAC 6-1-10.1.

- (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.

326 IAC 2-4.1-1 (New Source Toxics Control)

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any source that constructs or reconstructs a major source of HAPs, which has the potential to emit (PTE) 10 tons per year of any single HAP or 25 tons per year of any combination of HAPs, must control emissions from that source using technologies consistent with the Maximum Achievable Control Technology (MACT). This source has potential single HAP and total HAP emissions of less than 10 and 25 tons per year, respectively, therefore, this rule does not apply.

State Rule Applicability – Individual Facilities

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

One (1) Johnston natural gas fired boiler (Boiler-3) rated 8.37 MMBtu/hr, installed in 2002 is subject to the particulate matter limitations of 326 IAC 6-2-4. Pursuant to this rule, particulate emissions from indirect heating facilities constructed after September 21, 1983, shall be limited by the following equation:

$$Pt = 1.09/Q^{0.26}$$

where: Pt = maximum allowable particulate matter (PM) emitted per MMBtu heat input
Q = total source max. operation capacity rating = 8.37 + 4.19 + 8.37 = 20.93 MMBtu/hr

$$Pt = 1.09/20.93^{0.26} = 0.4943 \text{ lbs PM/MMBtu}$$

compliance calculation:

Allowable PM emissions = 0.4943 lbs PM/MMBtu x 8.37 MMBtu/hr x 8760 hr/yr / 2000 lb/ton = 18.12 ton/yr

Potential PM emissions for Boiler-3 (0.9 ton/yr) is less than allowable 18.12 ton per year, therefore the boiler will comply with the requirements of 326 IAC 6-2-4.

326 IAC 7-1.1 (Sulfur dioxide emission limitations)

The provisions of this rule do not apply to the boiler in this permit revision because Boiler-3 has the potential to emit less than twenty-five (25) tons per year and less than ten (10) pounds per hour of sulfur dioxide based on sulfur content of 0.5% in No. 2 fuel oil.

326 IAC 7-4-1.1 (Sulfur dioxide emission limitations: Lake County)

This rule does not apply to Boiler-3 located at this source because it is not subject to 326 IAC 7-1.1.

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

This rule is applicable to any of the liquid storage tanks with capacities greater than 39,000 gallons containing volatile organic compounds whose true vapor pressure is greater than 1.52 psi. Storage tank identified as FP6, with storage capacity greater than 39,000 gallons stores petroleum liquid whose true vapor pressure is less than 1.52 psi, therefore, the rule does not apply. Storage tanks identified as SF1, SF2, SF3, E-W Sump Tank, IS 1, T-10 and T-11, each has a storage capacity less than 39,000 gallons, therefore the rule does not apply.

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

This rule is being re-evaluated for the entire source since it was not evaluated correctly in the MSOP renewal permit.

Pursuant to 326 IAC 8-9-1, on and after October 1, 1995 stationary vessels used to store volatile organic liquids (VOL) must comply with the requirements of the rule if located in Clark, Floyd, Lake or Porter Counties. Stationary vessels with capacities less than 39,000 gallons are only subject to the reporting and record keeping requirements of the rule. Stationary vessels with capacities equal to or greater than 39,000 gallons storing a VOL with a maximum true vapor pressure equal to or greater than 0.5 pounds per square inch absolute (psia), but less than 0.75 psia, are only subject to 326 IAC 8-9-6(a),(b),(g), and (h).

- (a) Storage tanks identified as (*existing tanks*: F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F14, F15, F16, F17, and F18) and (*new tanks*: SF1, SF2, SF3, and FP6) are not subject to the requirements of this rule because they are subject to 40 CFR 60, Subpart Kb, (New Source Performance Standard for Volatile Organic Liquid Storage).
- (b) Storage tanks identified as (*existing tanks*: F1, F2, FP1, FT1, FT2, R1, R2, R3, S1, S2, S2, S4, S5, T1, T2, T3, T4, T5, T7, T8A, T8B, T9, T12, S8, T10, T11, AF1, AF2, BF1, and BF2), and (*new tanks*: IS 1, T-10, and T-11) are only subject to the reporting and record keeping requirements of this rule. While the listed tanks contain volatile organic compounds, they have storage capacities less than 39,000 gallons.
- (c) Storage tanks identified as (*existing tank*: T6) and (*new tank*: E-W Sump Tank) are not subject to the requirements of this rule because both tanks do not store volatile organic liquid.

326 IAC 12 (Volatile Organic Liquid Storage Tanks)

Pursuant to 326 IAC 12, the liquid storage tanks identified as T10 and T11, each has record keeping and reporting requirements as follows:

- (a) The Permittee shall maintain records required in section (b) below for the life of the storage vessel.
- (b) The Permittee shall maintain a record and submit to IDEM, OAQ a report containing the following information for each vessel:
 - (1) The vessel identification number
 - (2) The vessel dimensions
 - (3) The vessel capacity

Proposed Changes

1. Section A.1 has been revised to list the correct designated attainment/non-attainment status for each pollutant.

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.

Authorized Individual: President
Source Address: 1040 Michigan Street, Gary IN 46402
Mailing Address: 1040 Michigan Street, Gary IN 46402
General Source Phone: 219-881-9234
SIC Code: 2992
County Location: Lake
Source Location Status: Severe Nonattainment for 1-hour Ozone
Moderate Nonattainment for 8-hour Ozone
Nonattainment for PM_{402.5} and SO₂ and CO
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

2. Section A.2 has been revised to insert the new storage tanks and Boiler-3.

A.2 Emissions Units and Pollution Control Equipment Summary

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

(h) two (2) ~~40~~ **13,000** gallon vertical fixed roof liquid storage tanks, designated T10 and T11, storing finished product oil;

(v) **two (2) 25,000** gallon vertical fixed roof liquid storage tanks, designated as SF1 and SF2, storing raw material;

(w) **one (1) 30,000** gallon vertical fixed roof liquid storage tank, designated as SF3, storing raw material;

(x) **one (1) 2,120** gallon vertical fixed roof liquid storage tank, designated as E-W Sump Tank, storing process water;

(y) **one (1) 12,000** gallon vertical fixed roof liquid storage tank, designated as IS 1, storing raw material;

(z) **one (1) 1,000,000** gallon vertical fixed roof liquid storage tank, designated as FP6, storing finished product; and

(aa) **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.**

3. Section D.1 has been revised to insert Boiler-3.

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.**

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, ~~and~~ one (1) Cleaver-Brooks boiler, identified as Boiler -2, **and one (1) Johnston boiler, identified as Boiler-3**, shall be limited to 0.60, ~~and~~ 0.56, **and 0.49** pounds per MMBtu heat input, respectively.

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

The ~~two~~ **three (23)** boilers, identified as Boiler-1, ~~and~~ Boiler-2, **and Boiler-3**, shall each burn fuel oil with no higher than 0.5% sulfur when burning No.2 fuel oil.

4. Section D.2 has been revised to add the new storage tanks.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

- (f) two (2) ~~40~~ **13,000** gallon vertical fixed roof liquid storage tanks, designated T10 and T11, storing finished product oil;

- (t) **two (2) 25,000** gallon vertical fixed roof liquid storage tanks, designated as SF1 and SF2, storing raw material;
- (u) **one (1) 30,000** gallon vertical fixed roof liquid storage tank, designated as SF3, storing raw material;
- (v) **one (1) 2,120** gallon vertical fixed roof liquid storage tank, designated as E-W Sump Tank, storing process water;
- (w) **one (1) 12,000** gallon vertical fixed roof liquid storage tank, designated as IS 1, storing raw material; and
- (x) **one (1) 1,000,000** gallon vertical fixed roof liquid storage tank, designated as FP6, storing finished product.

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, F10, F11, ~~and F12~~, **SF1, SF2, SF3, and 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, 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, and T-11 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.

5. Natural gas boiler certification form has been added at the end of the permit since it was not included in the MSOP renewal permit.

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

AND

GARY DEPARTMENT OF ENVIRONMENTAL AFFAIRS

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.

Conclusion

The construction and operation of the storage tanks and a boiler shall be subject to the conditions of the Minor Permit Revision 089-21810-00151.

Appendix A: Emission Calculations

Company Name: Beaver Oil Company, Inc.
Address, City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit No.: 089-21810-00151
Reviewer: Adeel Yousuf/EVP
Date: October 6, 2005

Uncontrolled Potential Emissions (tons/year)				
Emissions Generating Activity				
Pollutant	Boiler 3 Natural Gas Combustion	Boiler 3 Fuel Oil Combustion	New Tanks Emissions	TOTAL
PM	0.30	0.90	0.00	0.90
PM₁₀	0.30	0.90	0.00	0.90
SO₂	0.00	18.60	0.00	18.60
NO_x	3.70	5.20	0.00	5.20
VOC	0.20	0.10	1.56	1.76
CO	3.10	1.30	0.00	3.10
total HAPs	0.07	negl.	0.10	0.17
worst case single HAP	0.066 (Hexane)	negl.	0.10 (Benzene)	0.10 (Benzene)
Total emissions based on rated capacity at 8,760 hours/year.				
Controlled Potential Emissions (tons/year)				
Emissions Generating Activity				
Pollutant	Boiler 3 Natural Gas Combustion	Boiler 3 Fuel Oil Combustion	New Tanks Emissions	TOTAL
PM	0.30	0.90	0.00	0.90
PM₁₀	0.30	0.90	0.00	0.90
SO₂	0.00	18.60	0.00	18.60
NO_x	3.70	5.20	0.00	5.20
VOC	0.20	0.10	1.56	1.76
CO	3.10	1.30	0.00	3.10
total HAPs	0.07	negl.	0.10	0.17
worst case single HAP	0.066 (Hexane)	negl.	0.10 (Benzene)	0.10 (Benzene)
Total emissions based on rated capacity at 8,760 hours/year, after control.				

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

Company Name: Beaver Oil Company, Inc.
Address, City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit No.: 089-21810-00151
Reviewer: Adeel Yousuf/EVP
Date: October 6, 2005

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
S2	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
T8A	vertical fixed roof	raw material	150	7.5	5,288	361,276	0.0766
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
T10	vertical fixed roof	finished product	150				
T11	vertical fixed roof	finished product	150				
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
VOC EMISSIONS from existing tanks (ton/yr)							2.36
New Tanks							
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
IS1	vertical fixed roof	raw material	150	7.5	12,000	819,840	0.1740
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
VOC EMISSIONS from new tanks (ton/yr)							1.56
TOTAL VOC EMISSIONS from all tanks (ton/yr)							3.93
SINGLE HAP (Benzene) EMISSIONS from all tanks (ton/yr)							0.10
TOTAL HAPs EMISSIONS from all tanks (ton/yr)							0.10

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Small Industrial Boiler

Company Name: Beaver Oil Company, Inc.

Address, City IN Zip: 1040 Michigan Street, Gary, IN 46402

Permit No.: 089-21810-00151

Reviewer: Adeel Yousuf/EVP

Date: October 6, 2005

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

8.37

73.3

One (1) Johnston Boiler (Boiler-3) burning natural gas as primary fuel and oil as back up fuel.

Pollutant

	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0 *see below	5.5	84.0
Potential Emission in tons/yr	0.3	0.3	0.0	3.7	0.2	3.1

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

PM emission factors are condensable and filterable.

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

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

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

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Small Industrial Boiler

HAPs Emissions

Company Name: Beaver Oil Company, Inc.

Address, City IN Zip: 1040 Michigan Street, Gary, IN 46402

Permit No.: 089-21810-00151

Reviewer: Adeel Yousuf/EVP

Date: October 6, 2005

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	7.699E-05	4.399E-05	2.750E-03	6.599E-02	1.246E-04

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.833E-05	4.033E-05	5.132E-05	1.393E-05	7.699E-05

Methodology is the same as previous page.

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
Commercial/Institutional/Residential Combustors
#1 and #2 Fuel Oil**

**Company Name: Beaver Oil Company, Inc.
Address, City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit No.: 089-21810-00151
Reviewer: Adeel Yousuf/EVP
Date: October 6, 2005**

Heat Input Capacity Potential Throughput S = Weight % Sulfur
MMBtu/hr kgals/year 0.5

8.37 523.7228571

One (1) Johnston Boiler (Boiler-3) burning natural gas as primary fuel and oil as back up fuel.

Emission Factor in lb/kgal	Pollutant				
	PM	SO ₂	NO _x	VOC	CO
	3.3	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.9	18.6	5.2	0.1	1.3

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 B

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

PM Emission Factor is Condensable and Filterable PM

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

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors
#1 and #2 Fuel Oil
HAPs Emissions

Company Name: Beaver Oil Company, Inc.
Address, City IN Zip: 1040 Michigan Street, Gary, IN 46402
Permit No.: 089-21810-00151
Reviewer: Adeel Yousuf/EVP
Date: October 6, 2005

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	1.466E-04	1.100E-04	1.100E-04	1.100E-04	3.299E-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	1.100E-04	2.200E-04	1.100E-04	5.499E-04

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