



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: March 31, 2009

RE: Superior Oil Company / 097-27575-00286

FROM: Matthew Stuckey, Branch 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, Suite N 501E, 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 12/3/07



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Richard Paul III
Superior Oil Company, Inc.
1402 North Capitol Avenue, Suite 100
Indianapolis, Indiana 46202

March 31, 2009

Re: 097-27575-00286
Second Minor Revision to
F097-18042-00286

Dear Richard Paul III:

Superior Oil Company, Inc. was issued a Federally Enforceable State Operating Permit (FESOP) No. F097-18042-00286 on April 28, 2005 for a stationary source that distributes industrial chemicals and related materials, including blending, container filling and other packaging activities located at 400 West Regent Street, Indianapolis, Indiana 46225. On March 5, 2009, the Office of Air Quality (OAQ) received an application from the source requesting the following:

- (1) The addition of one (1) new portable 55 gallon open-top blend tank, identified as part of either the Compounding Operations or the Blending Operation.
- (2) The addition of two (2) 6,000 gallon fixed roof above-ground storage tanks, identified as Tanks #90 and #91.
- (3) The modification of one (1) 500 gallon fixed roof blend tank, identified as part of the Blending Operation, to a portable 500 gallon open-top blend tank, identified as part of either the Blending Operation or the Compounding Operations.
- (4) The modification of two (2) 6,000 gallon fixed roof above-ground storage tanks, identified as Tanks #86 and #87, to two (2) 6,000 gallon fixed roof above-ground cone bottomed storage tanks.
- (5) The modification of two (2) 4,000 gallon fixed roof above-ground storage tanks, identified as Tanks #88 and #89, to two (2) 6,000 gallon fixed roof above-ground storage tanks.
- (6) The re-labeling of two (2) 10,000 gallon fixed roof above-ground storage tanks, identified as Tanks #90 and #91, to Tanks #92 and #93.

The attached Technical Support Document (TSD) provides additional explanation of the changes to the source/permit. Pursuant to the provisions of 326 IAC 2-8-11.1, these changes to the permit are required to be reviewed in accordance with the Minor Permit Revision (MPR) procedures of 326 IAC 2-8-11.1(e). Pursuant to the provisions of 326 IAC 2-8-11.1, a minor permit revision to this permit is hereby approved as described in the attached Technical Support Document (TSD).

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 2-8-11.1, 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. Attached please find the entire revised 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 Sarah Conner, Ph. D. of my staff, at 317-234-6555 or 1-800-451-6027, and ask for extension 4-6555.

Sincerely,



Alfred C. Dumaul, Ph. D., Section Chief
Permits Branch
Office of Air Quality

Attachments: Technical Support Document and revised permit

ACD/SLC

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



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Federally Enforceable State Operating Permit OFFICE OF AIR QUALITY

Superior Oil Company, Inc.
400 West Regent Street
Indianapolis, Indiana 46225

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

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

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F097-18042-00286	
Original Issued by: Felicia A. Robinson, Manager of Environmental Planning Office of Environmental Services	Issuance Date: April 28, 2005 Expiration Date: April 28, 2010

First Significant Permit Revision No. F097-22820-00286, issued on December 4, 2006
First Minor Permit Revision No. F097-23856-00286, issued on December 29, 2006
First Administrative Amendment No. F097-24976-00286, issued on August 30, 2007
Second Administrative Amendment No. F097-25299-00286, issued on October 11, 2007
Second Significant Permit Revision No. 097-26694-00286, issued on December 3, 2008

Second Minor Permit Revision No. 097-27575-00286	Pages Affected: Entire Permit
Issued by: Alfred C. Dumauil, Ph. D., Section Chief Permits Branch Office of Air Quality	Issuance Date: March 31, 2009 Expiration Date: April 28, 2010

TABLE OF CONTENTS

SECTION A	SOURCE SUMMARY	4
A.1	General Information [326 IAC 2-8-3(b)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]	
A.3	Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]	
A.4	FESOP Applicability [326 IAC 2-8-2]	
SECTION B	GENERAL CONDITIONS	9
B.1	Definitions [326 IAC 2-8-1]	
B.2	Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5] [IC 13-15-3-6(a)]	
B.3	Terms of Conditions [326 IAC 2-1.1-9.5]	
B.4	Enforceability [326 IAC 2-8-6]	
B.5	Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]	
B.6	Severability [326 IAC 2-8-4(4)]	
B.7	Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]	
B.8	Duty to Provide Information [326 IAC 2-8-4(5)(E)]	
B.9	Compliance Order Issuance [326 IAC 2-8-5(b)]	
B.10	Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]	
B.11	Annual Compliance Certification [326 IAC 2-8-5(a)(1)]	
B.12	Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]	
B.13	Emergency Provisions [326 IAC 2-8-12]	
B.14	Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.15	Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]	
B.16	Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]	
B.17	Permit Renewal [326 IAC 2-8-3(h)]	
B.18	Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]	
B.19	Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]	
B.20	Permit Revision Requirement [326 IAC 2-8-11.1]	
B.21	Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]	
B.22	Transfer of Ownership or Operational Control [326 IAC 2-8-10]	
B.23	Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-8-4(6)][326 IAC 2-8-16][326 IAC 2-1.1-7]	
B.24	Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314][326 IAC 1-1-6]	
SECTION C	SOURCE OPERATION CONDITIONS	19
	Emission Limitations and Standards [326 IAC 2-8-4(1)]	
C.1	Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2]	
C.2	Overall Source Limit [326 IAC 2-8]	
C.3	Opacity [326 IAC 5-1]	
C.4	Open Burning [326 IAC 4-1][IC 13-17-9]	
C.5	Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]	
C.6	Fugitive Dust Emissions [326 IAC 6-4]	
C.7	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61 Subpart M]	
	Testing Requirements [326 IAC 2-8-4(3)]	
C.8	Performance Testing [326 IAC 3-6]	
	Compliance Requirements [326 IAC 2-1.1-11]	
C.9	Compliance Requirements [326 IAC 2-1.1-11]	
	Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]	
C.10	Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]	
C.11	Monitoring Methods [326 IAC 3][40 CFR 60][40 CFR 63]	

TABLE OF CONTENTS (Continued)

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]

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

C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]

C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

Stratospheric Ozone Protection

C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

SECTION D.1 FACILITY OPERATION CONDITIONS

Loading, Blending, Compounding, Container Filling, Amine Processing, and Liquid Storage 25

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 2-8-4(1)] [326 IAC 2-3]

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-1-6][326 IAC 2-8-11.1(d)(5)]

D.1.3 Hazardous Air Pollutants (HAP) [326 IAC 2-8-4(1)] [326 IAC 2-8-11.1(d)(5)]

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 2-8-4(1)] [326 IAC 8-1-6]

D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

Compliance Determination Requirements

D.1.6 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 8-1-2]
[326 IAC 8-1-4]

D.1.7 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs)

D.1.8 Volatile Organic Compounds (VOC)

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.9 Record Keeping Requirements

D.1.10 Reporting Requirements

SECTION D.2 FACILITY OPERATION CONDITIONS

Insignificant Activities 33

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

D.2.2 FESOP Limit: VOC and HAP [326 IAC 2-8-4(1)] [326 IAC 2-3]

D.2.3 Particulate emission limitations, work practices, and control technologies [326 IAC 6-3-2]

D.2.4 Cold Cleaner Degreaser Operation and Control [326 IAC 8-3-5]

D.2.5 Record Keeping Requirements

D.2.6 Reporting Requirements

Certification Form	36
Emergency Occurrence Form	37
Quarterly Report Forms	39
Quarterly Deviation and Compliance Monitoring Report Form	46

SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary source, operation of distribution of industrial chemicals and related materials, including blending, container filling and other packaging activities.

Source Address:	400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address:	1402 North Capitol Avenue, Indianapolis, Indiana 46202
General Source Phone:	(317) 781-4400
SIC Code:	5169, 2899
Source Location Status:	Marion County Nonattainment for PM-2.5 Attainment for all other criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, Section 112 of the Clean Air Act Minor Source, under PSD, Emission Offset, and Nonattainment NSR Rules Not 1 of 28 Source Categories

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

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

- (a) Loading Rack for receiving and shipping chemicals and solvents (via rail car or tank truck and containerized), with maximum capacity of 65,700,000 gallons per year of bulk or containerized receipts.
- (b) Blending operation, consisting of pumps, hoses, blend tanks, and a 500 gallon portable open-top blend tank, used for making custom solvent blends, with maximum capacity of 70,817,300 gallons per year. Finished blends are packaged directly from the blend tanks or transferred to storage tanks.
- (c) Compounding Operations, consisting of mix tanks, blend tanks, a 55 gallon portable open-top blend tank, and storage tanks, used for the compounding of water based cleaners with low VOC type additives, with maximum capacity of 39,420,150 gallons per year. Finished blends are packaged directly from the mix tanks or transferred to storage tanks.
- (b) Container Filling Operations, with maximum capacity of 39,420,000 gallons per year. Containers (drums, pails, and totes) are filled from other containers, blend tanks or bulk storage tanks prior to shipment with straight products and blends.
- (e) Special Processing Unit, identified as TEA1, with maximum processing capacity of 18,980,000 gallons per year of spent scrubber solutions from foundries air pollution control devices, exhausting to Stack ID TEA1, constructed in 1996. Specification amine products are filled into containers for distribution. Amines (primarily TEA) emissions and odors are controlled by a liquid scrubber unit, identified as TEA Scrubber System, consisting of series of drums and a plastic tote that contain the acid and water mixture.

(f) The following tanks with over 1 ton per year HAP potential:

Tank 2, fixed roof tank with a storage capacity of 25,000 gallons, constructed in 1995.
Tank 8, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1974.
Tank 9, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1974.
Tank 10, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1974.
Tank 11, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1973.
Tank 12, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1973.
Tank 16, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1973.
Tank 17, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1974.
Tank 18, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1972.
Tank 19, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1973.
Tank 25, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1981.
Tank 27, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1974.
Tank 41, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1972.
Tank 42, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
Tank 43, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
Tank 44, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
Tank 45, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
Tank 46, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1972.
Tank 47, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1972.
Tank 48, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
Tank 49, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
Tank 51, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1979.
Tank 52, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1979.
Tank 53, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1979.
Tank 56, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1981.
Tank 57, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1979.
Tank 58, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1981.
Tank 59, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1981.
Tank 86, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 87, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 88, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 89, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 90, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 91, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 92, fixed roof tank with a storage capacity of 10,000 gallons, constructed in 2008.
Tank 93, fixed roof tank with a storage capacity of 10,000 gallons, constructed in 2008.

- (g) A second Container Filling Operation, identified as drum line #2, with maximum capacity of 49,932,000 gallons per year and constructed in 2006. Containers (drums, pails, and totes) are filled from other containers, blend tanks or bulk storage tanks prior to shipment.
- (h) A third Container Filling Operation, identified as drum line #3, with maximum capacity of 36,792,000 gallons per year and approved for construction in 2007. Containers (drums, pails, and totes) are filled from other containers, blend tanks or bulk storage tanks prior to shipment.
- (i) Three (3) cargo tank/tote blowers, each blower drying a maximum of 1.46 gallons of product residue per tank or tote from a maximum of 14 cargo tanks or totes per day to remove the product residue from the cargo tank or tote.

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

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

- (a) Tank 1, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
- Tank 3, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
- Tank 4, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1980.
- Tank 5, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 6, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 7, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
- Tank 13, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 14, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 15, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 20, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 21, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 22, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 23, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 24, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 26, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 28, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 29, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 30, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 31, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
- Tank 32, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
- Tank 33, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
- Tank 34, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
- Tank 35, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 36, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 37, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 38, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 39, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 40, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
- Tank 50, horizontal tank with a storage capacity of 10,000 gallons, constructed in 2006.
- Tank 54, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1980.
- Tank 55, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
- Tank 60, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1994.
- Tank 61, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1990.
- Tank 62, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1982.
- Tank 63, fixed roof tank with a storage capacity of 3,000 gallons, constructed in 1995.
- Tank 64, fixed roof tank with a storage capacity of 3,000 gallons, constructed in 1995.
- Tank 65, fixed roof tank with a storage capacity of 3,000 gallons, constructed in 1995.
- Tank 66, fixed roof tank with a storage capacity of 10,000 gallons, constructed in 1982.
- Tank 67, fixed roof tank with a storage capacity of 10,000 gallons, constructed in 1984.
- Tank 68, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1984.
- Tank 71, fixed roof tank with a storage capacity of 1,500 gallons, constructed in 1990.
- Tank 72, fixed roof tank with a storage capacity of 2,500 gallons, constructed in 1990.
- Tank 76, fixed roof tank with a storage capacity of 4,500 gallons, constructed in 2002.
- Tank 77, blending tank with a storage capacity of 3,000 gallons, constructed in 1974.
- Tank 80, fixed roof tank with a storage capacity of 6,500 gallons, constructed in 2006.
- Tank 81, fixed roof tank with a storage capacity of 6,100 gallons, constructed in 2006.
- Tank 82, fixed roof tank with a storage capacity of 6,100 gallons, constructed in 2006.
- Tank 83, fixed roof tank with a storage capacity of 6,100 gallons, constructed in 2006.
- Tank 84, fixed roof tank with a storage capacity of 6,500 gallons, constructed in 2006.
- Tank B1, fixed roof tank with a storage capacity of 2,000 gallons, constructed in 1973.
- Tank B2, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1973.
- Tank B3, fixed roof tank with a storage capacity of 3,000 gallons, constructed in 1990.
- Tank B4, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1990.

Tank B5, fixed roof tank with a storage capacity of 1,100 gallons, constructed in 1994.
Tank B6 fixed roof tank with a storage capacity of 1,000 gallons, constructed in 1994.
Tank B7, fixed roof tank with a storage capacity of 1,000 gallons, constructed in 1994.
Tank B8, fixed roof tank with a storage capacity of 1,100 gallons, constructed in 1994.
Tank B9, fixed roof tank with a storage capacity of 675 gallons, constructed in 1992.
Tank M-1, fixed roof tank with a storage capacity of 400 gallons, constructed in 1990.
Tank M-2, fixed roof tank with a storage capacity of 1,000 gallons, constructed in 1990.
Tank M-3, fixed roof tank with a storage capacity of 2,200 gallons, constructed in 1992.
Tank M-4, fixed roof tank with a storage capacity of 4,000 gallons, constructed in 2006.
Tank M-5, fixed roof tank with a storage capacity of 4,000 gallons, constructed in 2006.

- (b) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
 - (1) One (1) natural gas-fired hot oil heater, identified as HO1, 8.5 MMBtu/hr.
 - (2) One (1) natural gas-fired boiler, identified as Boiler1, constructed in 2006, with a maximum capacity of 3.15 MMBtu/hr.
- (c) Combustion source flame safety purging on startup.
- (d) The following VOC and HAP storage containers:
 - (1) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.
- (e) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6 (Trichloroethylene degreaser, identified as D-1, with a maximum throughput of 120 gallons per 12 months).
- (f) Cleaners and solvents characterized as follows:
 - (1) having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100°F) or;
 - (2) having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (g) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, and welding equipment.
- (h) Closed loop heating and cooling systems.
- (i) Structural steel and bridge fabricating activities using 80 tons or less of welding consumables.
- (j) Any operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.
- (k) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.
- (l) Noncontact cooling tower systems with forced and induced draft cooling tower system not regulated under NESHAP.
- (m) Heat exchanger cleaning and repair.

- (n) Process vessel degassing and cleaning to prepare for internal repairs.
- (o) Paved and unpaved roads and parking lots with public access.
- (p) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.
- (q) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (r) Blowdown for any of the following: sight glass; boiler; compressors; pumps, and cooling tower.
- (s) On-site fire and emergency response training approved by the department.
- (t) Purge double block and bleed valves.
- (u) Filter or coalescer media changeout.
- (v) A laboratory as defined in 326 IAC 2-7-1(21)(D).

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

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

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

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

B.2 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5] [IC 13-15-3-6(a)]

- (a) This permit, 097-18042-00286, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

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

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

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

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

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

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

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

B.8 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted no later than April 15 of each year to:

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

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;

- (2) The compliance status;
- (3) Whether compliance was continuous or intermittent;
- (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
- (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ may require to determine the compliance status of the source.

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

B.12 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.13 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission

limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for IDEM, OAQ, Compliance and Enforcement Branch) or,

Telephone No.: 317-233-0178 (ask for IDEM, OAQ, Compliance and Enforcement Branch)

Facsimile No.: 317-233-6865

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

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

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
 - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.14 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to 097-18042-00286 and issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination

[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]
- (1) A timely renewal application is one that is:
- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.
- (c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- Any such application shall be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

B.19 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b). The Permittee shall make such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) **Emission Trades [326 IAC 2-8-15(c)]**
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(d)]**
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

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

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.24 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above-specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 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 thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

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

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

C.5 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

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

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

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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.

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

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

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

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

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

in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

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

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

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

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

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

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

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

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

(a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.

(b) These ERPs shall be submitted for approval to:

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

within ninety (90) days from the date of issuance of this permit.

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

(c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)(c)] [326 IAC 2-8-5]

(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 IDEM, Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the IDEM, Commissioner within a reasonable time.

(b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period.

The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

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

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report shall cover the period commencing on the date of issuance of the original FESOP and ending on the last day of the reporting period. All subsequent reporting periods shall be 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.

Stratospheric Ozone Protection

C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1

FACILITY OPERATION CONDITIONS

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

- (a) Loading Rack for receiving and shipping chemicals and solvents (via rail car or tank truck and containerized), with maximum capacity of 65,700,000 gallons per year of bulk or containerized receipts.
- (b) Blending operation, consisting of pumps, hoses, blend tanks, and a 500 gallon portable open-top blend tank, used for making custom solvent blends, with maximum capacity of 70,817,300 gallons per year. Finished blends are packaged directly from the blend tanks or transferred to storage tanks.
- (c) Compounding Operations, consisting of mix tanks, blend tanks, a 55 gallon portable open-top blend tank, and storage tanks, used for the compounding of water based cleaners with low VOC type additives, with maximum capacity of 39,420,150 gallons per year. Finished blends are packaged directly from the mix tanks or transferred to storage tanks.
- (d) Container Filling Operations, with maximum capacity of 39,420,000 gallons per year. Containers (drums, pails, and totes) are filled from other containers, blend tanks or bulk storage tanks prior to shipment with straight products and blends.
- (e) Special Processing Unit, identified as TEA1, with maximum processing capacity of 18,980,000 gallons per year of spent scrubber solutions from foundries air pollution control devices, exhausting to Stack ID TEA1, constructed in 1996. Specification amine products are filled into containers for distribution. Amines (primarily TEA) emissions and odors are controlled by a liquid scrubber unit, identified as TEA Scrubber System, consisting of series of drums and a plastic tote that contain the acid and water mixture.
- (f) The following tanks with over 1 ton per year HAP potential:
 - Tank 2, fixed roof tank with a storage capacity of 25,000 gallons, constructed in 1995.
 - Tank 8, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1974.
 - Tank 9, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1974.
 - Tank 10, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1974.
 - Tank 11, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1973.
 - Tank 12, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1973.
 - Tank 16, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1973.
 - Tank 17, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1974.
 - Tank 18, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1972.
 - Tank 19, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1973.
 - Tank 25, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1981.
 - Tank 27, fixed roof tank with a storage capacity of 20,000 gallons, constructed in 1974.
 - Tank 41, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1972.
 - Tank 42, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
 - Tank 43, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
 - Tank 44, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
 - Tank 45, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
 - Tank 46, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1972.
 - Tank 47, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1972.
 - Tank 48, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
 - Tank 49, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1973.
 - Tank 51, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1979.
 - Tank 52, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1979.
 - Tank 53, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1979.
 - Tank 56, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1981.
 - Tank 57, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1979.
 - Tank 58, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1981.

Tank 59, fixed roof tank with a storage capacity of 30,000 gallons, constructed in 1981.
Tank 86, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 87, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 88, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 89, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 90, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 91, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 92, fixed roof tank with a storage capacity of 10,000 gallons, constructed in 2008.
Tank 93, fixed roof tank with a storage capacity of 10,000 gallons, constructed in 2008.

- (g) A second Container Filling Operation, identified as drum line #2, with maximum capacity of 49,932,000 gallons per year and constructed in 2006. Containers (drums, pails, and totes) are filled from other containers, blend tanks or bulk storage tanks prior to shipment.
- (h) A third Container Filling Operation, identified as drum line #3, with maximum capacity of 36,792,000 gallons per year and approved for construction in 2007. Containers (drums, pails, and totes) are filled from other containers, blend tanks or bulk storage tanks prior to shipment.
- (i) Three (3) cargo tank/tote blowers, each blower drying a maximum of 1.46 gallons of product residue per tank or tote from a maximum of 14 cargo tanks or totes per day to remove the product residue from the cargo tank or tote.

Insignificant Activities:

- (a) Tank 1, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
Tank 3, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
Tank 4, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1980.
Tank 5, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
Tank 6, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
Tank 7, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
Tank 13, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 14, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 15, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 20, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 21, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 22, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 23, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 24, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 26, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 28, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 29, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 30, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
Tank 31, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
Tank 32, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
Tank 33, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
Tank 34, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1974.
Tank 35, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
Tank 36, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
Tank 37, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
Tank 38, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
Tank 39, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.
Tank 40, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1974.

Tank 50, horizontal tank with a storage capacity of 10,000 gallons, constructed in 2006.
Tank 54, fixed roof tank with a storage capacity of 7,000 gallons, constructed in 1980.
Tank 55, fixed roof tank with a storage capacity of 11,000 gallons, constructed in 1974.
Tank 60, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1994.
Tank 61, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1990.
Tank 62, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1982.
Tank 63, fixed roof tank with a storage capacity of 3,000 gallons, constructed in 1995.
Tank 64, fixed roof tank with a storage capacity of 3,000 gallons, constructed in 1995.
Tank 65, fixed roof tank with a storage capacity of 3,000 gallons, constructed in 1995.
Tank 66, fixed roof tank with a storage capacity of 10,000 gallons, constructed in 1982.
Tank 67, fixed roof tank with a storage capacity of 10,000 gallons, constructed in 1984.
Tank 68, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1984.
Tank 71, fixed roof tank with a storage capacity of 1,500 gallons, constructed in 1990.
Tank 72, fixed roof tank with a storage capacity of 2,500 gallons, constructed in 1990.
Tank 76, fixed roof tank with a storage capacity of 4,500 gallons, constructed in 2002.
Tank 77, blending tank with a storage capacity of 3,000 gallons, constructed in 1974.
Tank 80, fixed roof tank with a storage capacity of 6,500 gallons, constructed in 2006.
Tank 81, fixed roof tank with a storage capacity of 6,100 gallons, constructed in 2006.
Tank 82, fixed roof tank with a storage capacity of 6,100 gallons, constructed in 2006.
Tank 83, fixed roof tank with a storage capacity of 6,100 gallons, constructed in 2006.
Tank 84, fixed roof tank with a storage capacity of 6,500 gallons, constructed in 2006.
Tank B1, fixed roof tank with a storage capacity of 2,000 gallons, constructed in 1973.
Tank B2, fixed roof tank with a storage capacity of 6,000 gallons, constructed in 1973.
Tank B3, fixed roof tank with a storage capacity of 3,000 gallons, constructed in 1990.
Tank B4, fixed roof tank with a storage capacity of 5,000 gallons, constructed in 1990.
Tank B5, fixed roof tank with a storage capacity of 1,100 gallons, constructed in 1994.
Tank B6 fixed roof tank with a storage capacity of 1,000 gallons, constructed in 1994.
Tank B7, fixed roof tank with a storage capacity of 1,000 gallons, constructed in 1994.
Tank B8, fixed roof tank with a storage capacity of 1,100 gallons, constructed in 1994.
Tank B9, fixed roof tank with a storage capacity of 675 gallons, constructed in 1992.
Tank M-1, fixed roof tank with a storage capacity of 400 gallons, constructed in 1990.
Tank M-2, fixed roof tank with a storage capacity of 1000 gallons, constructed in 1990.
Tank M-3, fixed roof tank with a storage capacity of 2,200 gallons, constructed in 1992.
Tank M-4, fixed roof tank with a storage capacity of 4,000 gallons, constructed in 2006.
Tank M-5, fixed roof tank with a storage capacity of 4,000 gallons, constructed in 2006.

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

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 2-8-4(1)] [326 IAC 2-3]

Pursuant to 326 IAC 2-8-4(1), the Permittee shall limit the VOC materials usage in the Loading Rack, Blending Operation, Compounding Operations, all Container Filling Operations, Special Processing Unit (TEA1), the significant tanks, and the insignificant tanks, combined with the amount of VOC used in the degreasing operations, such that VOC emissions shall be less than 89.72 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with the above limits, combined with the potential to emit VOC from other emission units at the source, and the limits established in Conditions D.1.4 and D.2.2 of this permit, shall limit VOC emissions from this entire source to less than 100 tons per twelve (12) consecutive month period, and render 326 IAC 2-7 and 326 IAC 2-3 not applicable.

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-1-6] [326 IAC 2-8-11.1(d)(5)]

- (a) The Permittee shall limit the VOC emissions from the Special Processing Unit, identified as TEA1, to less than 25 tons per twelve (12) consecutive month period, such that the requirements of the 326 IAC 8-1-6 (New facilities; general reduction requirements) shall not apply.
- (b) Pursuant to 326 IAC 2-8-11.1(d)(5), the Permittee shall limit the VOC materials usage to all Container Filling Operations such that VOC emissions shall be limited to less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this limit makes the requirements of 326 IAC 8-1-6 not applicable.
- (c) Pursuant to 326 IAC 2-8-11.1(d)(5), and in order to render the requirements of 326 IAC 8-1-6 not applicable, the Permittee shall limit the VOC materials usage to 500 gallon open-top blend tank such that VOC emissions shall be limited to less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this limit will be determined using the formula included in condition D.1.8. Compliance with this limit makes the requirements of 326 IAC 8-1-6 not applicable.

D.1.3 Hazardous Air Pollutants (HAP) [326 IAC 2-8-4(1)] [326 IAC 2-8-11.1(d)(5)]

Pursuant to 326 IAC 2-8-4(1) and 326 IAC 2-8-11.1(d)(5), the Permittee shall limit the HAP materials usage in the Loading Rack, Blending Operation, Compounding Operations, all Container Filling Operations, Special Processing Unit (TEA1), the significant tanks, the insignificant tanks, the degreasing operations (listed in Section D.2), and the three (3) cargo tank/tote blowers, such that the total HAP emissions shall be limited to less than nine and eight-tenths (9.8) tons per twelve (12) consecutive month period for any single HAP and less than twenty-four and five-tenths (24.5) tons per twelve (12) consecutive month period for any combination of HAPs with compliance determined at the end of each month.

Compliance with the above limits, combined with the HAP usage limits in Condition D.2.2 and the potential to emit HAP from the other emission units at this source, shall limit the HAPs from the entire source to less than ten (10) tons of a single HAP and less than twenty-five (25) tons of a combination of HAPs per twelve (12) consecutive month period, and render 326 IAC 2-7 and 326 IAC 2-4.1 not applicable to this source.

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 2-8-4(1)] [326 IAC 8-1-6]

The VOC emissions from the three (3) cargo tank/tote blowers shall not exceed 9.9 tons per twelve (12) consecutive month period combined, with compliance determined at the end of each month. Compliance with this limit will be determined using the formula included in Condition D.1.7(a) below.

Compliance with the above limit, combined with the potential to emit VOC from other emission units at the source, and the limits established in Conditions D.1.1 and D.2.2 of this permit, shall limit VOC emissions from this entire source to less than 100 tons per twelve (12) consecutive month period and render 326 IAC 2-7 not applicable. Compliance with this limit also renders the requirements of 326 IAC 8-1-6 (New Facilities, General Reduction Requirements) not applicable to the three (3) cargo tank/tote blowers.

D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the Special Processing Unit, identified as TEA1.

Compliance Determination Requirements

D.1.6 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs) [326 IAC 8-1-2][326 IAC 8-1-4]

- (a) The Permittee shall use a computer-based operating system Chempax to track material usage, accounting information and customer data. This system shall provide detailed data regarding transactions for the purposes of supporting environmental reporting. The Chempax system shall provide reports for any range of calendar days, and reports generated by Chempax shall contain the following information:
- (1) For bulk transfers: date, receipt number, product name, amount in pounds, specific gravity, input location, and output location.
 - (2) For container filling transfers: date, receipt number, product name, composition (amount of VOC and HAPs), amount in pounds, specific gravity, time of transfer, duration of transfer, and type of transfer (bulk to container, container to container, or blend in container).
 - (3) For blending tank operations: date, receipt number, product name, amount in pounds, specific gravity, time of blend, duration of blend.
- (b) The Chempax system data shall be used to determine the material throughput for each tank as input into the TANKS program for each of the permitted tanks. Each bulk storage tank shall have a unique identifier to make possible to determine what materials go into and out of each bulk storage tank.
- (c) The Chempax data output shall be available in Excel spreadsheets format, where molecular weight and vapor pressure shall be added for each material, and VOC and HAPs (individual and combined) emissions shall be calculated.
- (d) VOC and HAP emissions calculations shall be performed for the following equipment and operations:
- (1) Loading rack;
 - (2) Container Filling and Blending operations, and
 - (3) Tanks Storage.
- (e) VOC emission factors for emissions generated by Loading rack, Container filling, Blending operations, and Special Processing Unit TEA1 Containerizing of materials shall be calculated using the following formula (AP-42, section 4.4):
- $$E = 12.46 * S * P * M / T, \text{ where:}$$
- E = pounds of emissions per 1000 gallons loaded;
S = saturation factor (1.45 for splash loading and 0.5 for submerged fill);
P = vapor pressure (psia);
M = mol. wt (lb/lb mole);
T = Temp (Rankin).
- (f) VOC Emissions from mixing operations shall be calculated using the following formula (EIIP, Vol. 2, Ch. 8):

$E = M * K_x * A * P * 3600 * H / (R * T)$, where:

E = emission in pounds
T = Temp (Rankin) = 530
M = Mol. Wt (lb/lb-mole)
P = Vapor pressure (psia)
A = Area of tank (average 29 sf)
H = batch time (hrs)
K_x = gas phase mass transfer coeff.
 $K_x = 0.00438 * (U^{0.78})(18/M)^{1/3}$
U = wind speed = 0.1 mph
R = Universal gas constant = 10.73

- (g) For the purpose of HAPs emission calculations, 100% of HAP content in solvents shall be accounted for as HAP emission.
- (h) Storage Tanks emissions shall be calculated using EPA's TANKS program (4.0 or more current version).
- (i) In the event that the Chempax system should be unavailable, paper records providing the same data shall be used and kept to provide data for the purposes of emissions calculations and compliance determination.

D.1.7 Volatile Organic Compounds (VOC) and Hazardous Air Pollutants (HAPs)

- (a) VOC emissions from the three (3) cargo tank/tote blowers shall be calculated using the following formula:

$$\text{VOC (tons/yr)} = \frac{T * G_{\text{VOC}} * W_{\text{VOC}} * D}{2000 \text{ pounds}}$$

Where:

T = Number of cargo tanks/totes dried per twelve (12) consecutive month period

G_{VOC} = Gallons of VOC containing material remaining in each cargo tank or tote to be dried
= 1.46 for all cargo tanks or totes

W_{VOC} = Weight percent of VOC in material remaining in each cargo tank or tote to be dried

D = Density of material remaining in each cargo tank or tote to be dried (lbs/gallon)

- (b) HAP emissions from the three (3) cargo tank/tote blowers shall be calculated using the following formulas:

$$\text{Single HAP (tons/yr)} = \frac{T * G_{\text{HAP}} * W_{\text{SHAP}} * D}{2000 \text{ pounds}}$$

Where:

T = Number of cargo tanks/totes dried per twelve (12) consecutive month period

G_{HAP} = Gallons of HAP containing material remaining in each cargo tank or tote to be dried
= 1.46 for all cargo tanks or totes

W_{SHAP} = Weight percent of each HAP in material remaining in each cargo tank or tote to be dried

D = Density of material remaining in each cargo tank or tote to be dried (lbs/gallon)

$$\text{Total HAPs (tons/yr)} = \frac{T * G_{HAP} * W_{THAP} * D}{2000 \text{ pounds}}$$

Where

T = Number of cargo tanks/totes dried per twelve (12) consecutive month period

G_{HAP} = Gallons of HAP containing material remaining in each cargo tank or tote to be dried
= 1.46 for all cargo tanks or totes

W_{THAP} = Weight percent of all HAP in material remaining in each cargo tank or tote to be dried

D = Density of material remaining in each cargo tank or tote to be dried (lbs/gallon)

D.1.8 Volatile Organic Compounds (VOC)

VOC emissions from the two (2) open-top blend tanks shall be calculated using the following formula:

$$\text{VOC (tons/time period)} = G_{voc} * (D * W) * \frac{1 \text{ ton}}{2,000 \text{ lbs}} * \frac{EF}{1 \text{ ton}} * \frac{1 \text{ ton}}{2,000 \text{ lbs}}$$

Where:

G_{VOC} = Total Gallons of product blended in each open top blend tank per designated time period.

D = Density of blended product (lbs/gallon)

W = Weight percent of VOC in blended product

EF = 30 pounds VOC emitted per ton of product blended (from AP-42 Table 6.4-1)

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.9 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1, D.1.2, D.1.3, and D.1.4, the Permittee shall keep records of chemicals inventory and throughput for each transfer and storage operation (input and output data of Chempax system and TANKS program), for each cargo tank/tote dried by the cargo tank/tote blowers, and for the two (2) open-top blend tanks. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period and shall include, but not limited to:

- (1) the number of gallons of each solvent used;

- (2) the molecular weight of each solvent;
 - (3) the vapor pressure of each solvent;
 - (4) the composition of each solvent (VOC and HAPs content);
 - (5) the type of operation used for each solvent (e.g., container filling or mixing or loading rack or cargo tank/tote blowers);
 - (6) the date of the transfer.
- (b) To document compliance with conditions D.1.3 and D.1.4, the Permittee shall keep records of the number of cargo tanks/totes dried for each month.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.1.1, D.1.2, D.1.3, and D.1.4 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 quarter 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(1).

SECTION D.2

FACILITY OPERATION CONDITIONS

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

Insignificant Activities:

- (b) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:
 - (1) One (1) natural gas-fired hot oil heater, identified as HO1, 8.3 MMBtu/hr.
 - (2) One (1) natural gas-fired boiler, identified as Boiler1, constructed in 2006, with a maximum capacity of 3.15 MMBtu/hr.
- (e) Degreasing operations that do not exceed 145 gallons per twelve (12) months, except if subject to 326 IAC 20-6.
- (g) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, and welding equipment.
- (i) Structural steel and bridge fabricating activities using 80 tons or less of welding consumables.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate Emission Limitations for Sources of Indirect Heating [326 IAC 6-2-4]

- (a) Particulate Emissions from the natural gas fired 8.3 MMBtu per hour Hot Oil Heater, Emission Unit ID HO1, shall be limited to less than 0.6 pounds per million Btu of heat input.
- (b) Particulate emissions from the natural gas fired 3.15 MMBtu per hour Boiler, Emission Unit ID Boiler1, shall be limited to less than 0.578 pounds per million Btu of heat input.

D.2.2 FESOP Limit: VOC and HAP [326 IAC 2-8-4(1)] [326 IAC 2-3]

- (a) Pursuant to 326 IAC 2-8-4(1), the Permittee shall limit the VOC materials usage in the Degreasing Operations, combined with the VOC materials usage to the Loading Rack, Blending Operation, Compounding Operations, Container Filling Operations, Special Processing Unit (TEA1), the significant tanks, and the insignificant tanks, such that the VOC emissions shall be less than 89.72 tons per twelve (12) consecutive month period, with compliance determined at the end of each month. Compliance with the above limits, combined with the potential to emit VOC from other emission units at the source, and the limits established in Conditions D.1.1 and D.1.4 of this permit, shall limit VOC emissions from this entire source to less than 100 tons per twelve (12) consecutive month period, and render 326 IAC 2-7, and 326 IAC 2-3 not applicable.
- (b) Pursuant to 326 IAC 2-8-4(1), the Permittee shall limit the HAP materials usage in the Loading Rack, Blending Operation, Compounding Operations, Container Filling Operations, Special Processing Unit (TEA1), the significant tanks, the insignificant tanks, the degreasing operations, and the three (3) cargo tank/tote blowers (listed in section D.1), such that the total HAP emissions shall be limited to less than nine and eight-tenths (9.8) tons per twelve (12) consecutive month period for any single HAP and less than twenty-four and five-tenths (24.5) tons per twelve (12) consecutive month period for any combination of HAPs, with compliance determined at the end of each month. Compliance with this limit, combined with the HAP limits in Condition D.1.3 and the HAP emissions from the other emission units at this source, shall limit the HAP emissions to less than ten (10) tons of a single HAP and less than twenty-five (25) tons of a combination of HAPs per twelve (12) consecutive month period and render 326 IAC 2-7 not applicable.

D.2.3 Particulate emission limitations, work practices, and control technologies [326 IAC 6-3-2]

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

D.2.4 Cold Cleaner Degreaser Operation and Control [326 IAC 8-3-5]

- (a) Pursuant to 326 IAC 8-3-5(a), the owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one (1) hand if:
 - (A) The solvent volatility is greater than two (2) kiloPascals (fifteen (15) millimeters of mercury or three-tenths (0.3) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F));
 - (B) The solvent is agitated; or
 - (C) The solvent is heated.
 - (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure that does not cause excessive splashing.
 - (5) Equip the degreaser with one (1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) kiloPascals (thirty-two (32) millimeters of mercury) or six-tenths (0.6) pounds per square inch) measured at thirty-eight degrees Celsius (38°C) (one hundred degrees Fahrenheit (100°F)), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9°C) (one hundred twenty degrees Fahrenheit (120°F)):
 - (A) A freeboard that attains a freeboard ratio of seventy-five-hundredths (0.75) or greater.
 - (B) A water cover when solvent is used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the U.S. EPA as a SIP revision.
- (b) Pursuant to 326 IAC 8-3-5(b), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.

- (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
- (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent (20%) of the waste solvent by weight could evaporate.

D.2.5 Record Keeping Requirements

- (a) To document compliance with Condition D.2.2, the Permittee shall maintain records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and the HAP usage limits established in Condition D.2.2 for the degreasing operations. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.
 - (1) The amount, VOC and HAP content of each degreasing solvent used on a monthly basis. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used;
 - (2) The total VOC and HAP usage for each month; and
 - (3) The weight of VOCs and HAPs emitted for each compliance period
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit

D.2.6 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.2 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 quarter 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(1).

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

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

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286

This form consists of 2 pages

Page 1 of 2

- This is an emergency as defined in 326 IAC 2-7-1(12)
- The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16

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

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

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

Page 2 of 2

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

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

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

FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286
Facility: Loading Rack, Blending Operation, Compounding Operations, all Container Filling Operations, Special Processing Unit (TEA1), Significant Tanks, Insignificant Tanks, and Degreasing Operations
Parameter: Volatile Organic Compound Emissions
Limit: shall be less than 89.72 tons of VOC per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

Month	Column 1	Column 2	Column 1 + Column 2
	VOC Emissions This Month (tons)	VOC Emissions Previous 11 Months (tons)	12 Month Total VOC Emissions (tons)
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
 Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
 Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
 FESOP No.: F097-18042-00286
 Facility: Loading Rack, Blending Operation, Compounding Operations, all Container Filling Operations, Special Processing Unit (TEA1), Significant Tanks, Insignificant Tanks, and Degreasing Operations and three (3) cargo tank/tote blowers
 Parameter: HAP Emissions
 Limit: less than 9.8 tons of an individual HAP per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Single HAP Emissions This Month (tons)	Single HAP Emissions Previous 11 Months (tons)	12 Month Total Single HAP Emissions (tons)

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
 Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286
Facility: Loading Rack, Blending Operation, Compounding Operations, all Container Filling Operations, Special Processing Unit (TEA1), Significant Tanks, Insignificant Tanks, and Degreasing Operations and three (3) cargo tank/tote blowers
Parameter: Hazardous Air Pollutant Emissions
Limit: less than 24.5 tons of any combination of HAPs per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

Month	Column 1	Column 2	Column 1 + Column 2
	Combined HAP Emissions This Month (tons)	Combined HAP Emissions Previous 11 Months (tons)	12 Month Total Combined HAP Emissions (tons)

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on:

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286
Facility: Special Processing Unit, identified as TEA1
Parameter: Volatile Organic Compound Emissions
Limit: less than 25 tons of VOC per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

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

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286
Facility: Container Filling Operations
Parameter: Volatile Organic Compound Emissions
Limit: less than 25 tons of VOC per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

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

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286
Facility: The 500 gallon portable open-top blend tank
Parameter: Volatile Organic Compound Emissions
Limit: less than 25 tons of VOC per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____ QUARTER: _____

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

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286
Facility: Three (3) cargo tank/tote blowers
Parameter: Volatile Organic Compound Emissions
Limit: The VOC emissions from the three (3) cargo tank/tote blowers shall be less than 9.9 tons per twelve (12) consecutive month period combined, with compliance determined at the end of each month. Compliance with the VOC emission limit shall be determined using the equation in condition D.1.7.

YEAR: _____ QUARTER: _____

Month	Column 1	Column 2	Column 1 + Column 2
	VOC Emissions This Month (tons)	VOC Emissions Previous 11 Months (tons)	12 Month Total VOC Emissions (tons)
Month 1			
Month 2			
Month 3			

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

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

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

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286

Months: _____ to _____ Year: _____

Page 1 of 2

This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

**Technical Support Document (TSD) for a Minor Permit Revision to a
Federally Enforceable State Operating Permit (FESOP)**

Source Description and Location
--

Source Name:	Superior Oil Company, Inc.
Source Location:	400 West Regent Street Indianapolis, Indiana 46225
County:	Marion
SIC Code:	5169, 2899
Operation Permit No.:	F 097-18042-00286
Operation Permit Issuance Date:	April 28, 2005
Minor Permit Revision No.:	097-27575-00286
Permit Reviewer:	Sarah Conner, Ph. D.

On March 5, 2009, the Office of Air Quality (OAQ) received an application from Superior Oil Company, Inc. related to a modification to an existing source that distributes industrial chemicals and related materials, including blending, container filling and other packaging activities.

Existing Approvals

The source was issued FESOP No. F097-18042-00286 on April 28, 2005. The source has since received the following approvals:

- (a) Significant Permit Revision No. 097-22820-00286, issued on December 4, 2006;
- (b) Minor Permit Revision No. 097-23856-00286, issued on December 29, 2006;
- (c) Administrative Amendment No. 097-24976-00286, issued on August 30, 2007; and
- (d) Administrative Amendment No. 097-25299-00286, issued on October 11, 2007; and
- (e) Significant Permit Revision No. 097-26694-00286, issued on December 3, 2008.

County Attainment Status

The source is located in Marion County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of Indianapolis bounded by 11 th Street on the north; Capitol Avenue on the west; Georgia Street on the south; and Delaware Street on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of Indianapolis and Marion County.
O ₃	Attainment effective November 8, 2007, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Attainment effective July 10, 2000, for the part of Franklin Township bounded by Thompson Road on the south; Emerson Avenue on the west; Five Points Road on the east; and Troy Avenue on the north. Attainment effective July 10, 2000, for the part of Wayne Township bounded by Rockville Road on the north; Girls School Road on the east; Washington Street on the south; and Bridgeport Road on the west. The remainder of the county is not designated.
¹ Attainment effective October 18, 2000, for the 1-hour ozone standard for the Indianapolis area, including Marion County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standards (NAAQS) for purposes of 40 CFR 51, Subpart X*. The 1-hour designation was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM2.5.	

- (a) **Ozone Standards**
 Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Marion County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) **PM2.5**
 Marion County has been classified as nonattainment for PM2.5 in 70 FR 943 dated January 5, 2005. On May 8th, 2008, U.S. EPA promulgated specific New Source Review rules for PM2.5 emissions, and the effective date of these rules was July 15th, 2008. Therefore, direct PM2.5 and SO2 emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.
- (c) **Other Criteria Pollutants**
 Marion County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Status of the Existing Source

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

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Loading Rack	-	-	-	-	-	<89.72	-	<24.5	<9.8
Blending Operations	-	-	-	-	-				
Compounding Operations	-	-	-	-	-				
Three (3) Container Filling Operations	-	-	-	-	-				
Special Processing Unit and Storage Tanks	-	-	-	-	-				
Insignificant Degreasing Operation	-	-	-	-	-				
Three (3) Cargo Tank/Tote Blowers	-	-	-	-	-	<9.9	-		
Insignificant Activities (Natural Gas combustion)	0.10	0.39	0.39	0.03	5.10	0.28	4.29	0.10	0.09 (hexane)
Total PTE of Entire Source	0.10	0.39	0.39	0.03	5.10	<99.9	4.29	<24.60	<9.89
Title V Major Source Thresholds	NA	100	-	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	NA	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA
negl. = negligible									

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is not a major stationary source under Emission Offset (326 IAC 2-3), because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year or more.
- (c) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the Permittee has accepted limits on HAPs emissions to less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Superior Oil Company, Inc. March 5, 2009, relating to the modification of existing storage tanks, the addition of new storage tanks, the modification a blend tank, and the addition of a new blend tank at an existing source that distributes industrial chemicals and related materials, including blending, container filling and other packaging activities.

The following is a list of the new/modified emission unit(s):

- (a) One (1) portable 55 gallon open-top blend tank, identified as part of either the Compounding Operations or the Blending Operation, approved for construction in 2009.
- (b) Two (2) 6,000 gallon fixed roof above-ground storage tanks, identified as Tanks #90 and #91, approved for construction in 2009.
- (c) One (1) 500 gallon fixed roof blend tank, identified as part of the Blending Operation, approved for modification in 2009 to a portable 500 gallon open-top blend tank, identified as part of either the Blending Operation or the Compounding Operations.
- (d) Two (2) 6,000 gallon fixed roof above-ground storage tanks, identified as Tanks #86 and #87, approved for modification in 2009 to two (2) 6,000 gallon fixed roof above-ground cone bottomed storage tanks.
- (e) Two (2) 4,000 gallon fixed roof above-ground storage tanks, identified as Tanks #88 and #89, approved for modification in 2009 to two (2) 6,000 gallon fixed roof above-ground storage tanks.
- (f) Two (2) 10,000 gallon fixed roof above-ground storage tanks, identified as Tanks #90 and #91, re-labeled in 2009 as Tanks #92 and #93.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – FESOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-8.11.1. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	PTE of Proposed Revision (tons/year)								
	PM	PM10*	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Storage Tanks #86 through #91	-	-	-	-	-	8.28	-	8.28	8.28 (Hexane)
55 gallon open-top blend tank	-	-	-	-	-	11.49	-	-	-
500 gallon open-top blend tank	-	-	-	-	-	86.78	-	-	-
Total PTE of Proposed Revision	0.00	0.00	0.00	0.00	0.00	98.27	0.00	0.00	0.00
negl. = negligible * Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".									

This FESOP is being revised through a FESOP Minor Permit revision pursuant to 326 IAC 2-8-11.1(d)(5) because this revision contains the modification of an emission unit for which the potential to emit is limited to less than twenty five (25) tons per year of VOC, ten (10) tons per year of any single HAP, and twenty five (25) tons per year of combined HAP.

PTE of the Entire Source After Issuance of the FESOP Revision

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
Loading Rack	-	-	-	-	-	<89.72	-	<24.5	<9.8
Blending Operations (including the 500 gallon open-top blend tank)	-	-	-	-	-		-		
Compounding Operations (including the 55 gallon open- top blend tank)	-	-	-	-	-		-		
Three (3) Container Filling Operations	-	-	-	-	-		-		
Special Processing Unit and Storage Tanks (including tanks #86 through #93)	-	-	-	-	-		-		
Insignificant Degreasing Operation	-	-	-	-	-		-		
Three (3) Cargo Tank/Tote Blowers	-	-	-	-	-	<9.9	-		
Insignificant Activities (Natural Gas combustion)	0.10	0.39	0.39	0.03	5.10	0.28	4.29	0.10	0.09 (hexane)
Total PTE of Entire Source	0.10	0.39	0.39	0.03	5.10	<99.9	4.29	<24.60	<9.89
Title V Major Source Thresholds	NA	100	-	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	NA	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA
negl. = negligible									

- (a) FESOP Status
 This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP).

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the source shall comply with the following:

- (1) The Permittee shall limit the VOC materials usage in the Loading Rack, Blending Operation (including the 500 gallon open-top blend tank), Compounding Operations (including the 55 gallon open-top blend tank), all Container Filling Operations, Special Processing Unit (TEA1), the significant tanks (including storage tanks #86 through #93), and the insignificant tanks, combined with the amount of VOC used in the degreasing operations, such that VOC emissions shall not exceed 89.72 tons per twelve (12) consecutive month period, with compliance determined at the end of each month.
- (2) The VOC emissions from the three (3) cargo tank/tote blowers shall not exceed 9.9 tons per twelve (12) consecutive month period combined, with compliance determined at the end of each month. Compliance with this limit will be determined using the formula included in the Compliance Determination and Monitoring Requirements section below.
- (3) The Permittee shall limit the HAP materials usage in the Loading Rack, Blending Operation (including the 500 gallon open-top blend tank), Compounding Operations (including the 55 gallon open-top blend tank), all Container Filling Operations, Special Processing Unit (TEA1), the significant tanks (including storage tanks #86 through #91), the insignificant tanks, the degreasing operations and the three (3) cargo tank/tote blowers such that total HAP emissions shall be limited to less than nine and eight-tenths (9.8) tons per twelve (12) consecutive month period for any single HAP and less than twenty-four and five-tenths (24.5) tons per twelve (12) consecutive month period for any combination of HAPs with compliance determined at the end of each month.

Compliance with these limits, combined with the potential to emit VOC and HAPs from all other emission units at this source, shall limit the source-wide total potential to emit of VOC to less than 100 tons per 12 consecutive month period, any single HAP to less than ten (10) tons per 12 consecutive month period, and total HAPs to less than twenty-five (25) tons per 12 consecutive month period and shall render 326 IAC 2-7 (Part 70 Permits), 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) and 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP) not applicable.

- (b) **PSD Minor Source**
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) **Minor Source Under Nonattainment New Source Review**
This modification to an existing minor stationary source under 326 IAC 2-1.1-5 (Nonattainment New Source Review) will not change the minor status, because the potential to emit of PM_{2.5} from the entire source will continue to be less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

Federal Rule Applicability Determination

The federal rule applicability for this revision is as follows:

New Source Performance Standards (NSPS)

- (a) The requirements of the NSPS, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984 (40 CFR 60.110b – 60.117b) are not included in this proposed revision for the new and modified storage tanks #86 through #93 because each storage tank has a storage capacity of less than 75 cubic meters (19,813 gallons).

- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

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

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability Determination

The following state rules are applicable to the proposed revision:

326 IAC 2-8-4 (FESOP)

This revision to an existing Title V minor stationary source will not change the minor status because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP). See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

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

This modification to an existing PSD minor stationary source will not change the PSD minor status because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

326 IAC 2-1.1-5 (Nonattainment New Source Review)

This modification to an existing minor stationary source under 326 IAC 2-1.1-5 (Nonattainment New Source Review) will not change the minor status, because the potential to emit of PM_{2.5} from the entire source will continue to be less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))

The unlimited potential to emit of HAPs from the new and modified storage Tanks #86 through #93 is greater than ten (10) tons per year for any single HAP and/or greater than twenty-five (25) tons per year of a combination of HAPs. However, these storage tanks will be limited under the existing limits which keep the total emissions from the loading rack, blending operations, compounding operations, container filling operations, special processing unit and storage tanks to less than 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs. Therefore, the proposed revision is not subject to the requirements of 326 IAC 2-4.1. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.

326 IAC 2-6 (Emission Reporting)

Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

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

- (1) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-4 (Fugitive Dust Emissions Limitations)

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

326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)

- (a) The unlimited VOC potential emissions from the modified 500 gallon open-top blend tank is greater than twenty-five (25) tons per year. However, the source shall limit the VOC potential emissions from the modified 500 gallon open-top blend tank to less than twenty-five (25) tons per year. In order to render the requirements of 326 IAC 8-1-6 not applicable the Permittee shall comply with the following:

Pursuant to 326 IAC 2-8-11.1(d)(5), and in order to render the requirements of 326 IAC 8-1-6 not applicable, the Permittee shall limit the VOC materials usage to 500 gallon open-top blend tank such that VOC emissions shall be limited to less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Compliance with this limit makes the requirements of 326 IAC 8-1-6 not applicable.

- (b) Each of the new and modified storage tanks (tanks #86 through #93) and the new 55 gallon open-top blend tank is not subject to the requirements of 326 IAC 8-1-6, since they each have unlimited VOC potential emissions less than twenty-five (25) tons per year.
- (c) There are no other 326 IAC 8 Rules that are applicable to these units.

Compliance Determination, Monitoring and Testing Requirements
--

- (a) The compliance determination and monitoring requirements applicable to this proposed revision are as follows:

- (1) Storage Tanks emissions shall be calculated using EPA's TANKS program (4.0 or more current version).
- (2) VOC emissions from the two (2) open-top blend tanks shall be calculated using the following formula:

$$\text{VOC (tons/time period)} = G_{\text{VOC}} * (D * W) * \frac{1 \text{ ton}}{2,000 \text{ lbs}} * \frac{\text{EF}}{1 \text{ ton}} * \frac{1 \text{ ton}}{2,000 \text{ lbs}}$$

Where:

G_{VOC} = Total Gallons of product blended in each open top blend tank per designated time period.

D = Density of blended product (lbs/gallon)

W = Weight percent of VOC in blended product

EF = 30 pounds VOC emitted per ton of product blended (from AP-42 Table 6.4-1)

Proposed Changes

IDEM, OAQ has decided to make revisions to the permit as described below, with deleted language as ~~strikeouts~~ and new language **bolded**.

- (1) Several of IDEM's Branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to Permit Administration and Development Section and the Permits Branch have been changed to Permit Administration and Support Section. References to Asbestos Section, Compliance Data Section, Air Compliance Section, and Compliance Branch have been changed to Compliance and Enforcement Branch.

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

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

- (2) Local agencies no longer have effective authority to implement state and federal requirements for IDEM. Therefore, IDEM has removed all references to local agencies from the permit. The revised permit specifies that all reports, notices, applications, and any other required submittals shall be submitted to IDEM. The Permittee should note that the local agency could have its own requirements beyond the state and federal requirements contained in the permit. Please contact the local agency for further information.

In addition to removing all references to local agencies from the permit, the following condition has been revised to remove language that no longer has legal basis in an underlying state or federal requirement.

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

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

~~(b)~~ ~~Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by OES.~~

- (3) B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination

[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

...

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

...

(c) Proceedings by ~~OES IDEM, OAQ~~ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by ~~OES IDEM, OAQ~~ at least thirty (30) days in advance of the date this permit is to be reopened, except that ~~OES IDEM, OAQ~~ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

(4) B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

...

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4320**4230** (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

(5) C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)(c)] [326 IAC 2-8-5]

(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 ~~OES Administrator~~ **Commissioner** makes a request for records to the Permittee, the Permittee shall furnish the records to the ~~OES Administrator~~ **Commissioner** within a reasonable time.

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

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

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

...

(b) Blending operation, consisting of pumps, hoses, ~~and~~ blend tanks, **and a 500 gallon portable open-top blend tank**, used for making custom solvent blends, with maximum capacity of 70,817,300 gallons per year. Finished blends are packaged directly from the blend tanks or transferred to storage tanks.

(c) Compounding Operations, consisting of mix tanks, blend **tanks, a 55 gallon portable open-top blend tank**, and storage tanks, used for the compounding of water based cleaners with low VOC type additives, with maximum capacity of 39,420,150 gallons per year. Finished blends are packaged directly from the mix tanks or transferred to storage tanks.

...

- (f) The following tanks with over 1 ton per year HAP potential:

...

Tank 86, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 20089.

Tank 87, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 20089.

Tank 88, fixed roof tank with a storage capacity of 4,000 **6,000** gallons, approved for construction in 20089.

Tank 89, fixed roof tank with a storage capacity of 4,000 **6,000** gallons, approved for construction in 20089.

Tank 9092, fixed roof tank with a storage capacity of 10,000 gallons, ~~approved for construction~~ in 2008.

Tank 9193, fixed roof tank with a storage capacity of 10,000 gallons, ~~approved for construction~~ in 2008.

Tank 90, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.

Tank 91, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.

(7) SECTION D.1

FACILITY OPERATION CONDITIONS

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

...

- (b) Blending operation, consisting of pumps, hoses, and blend tanks, **and a 500 gallon portable open-top blend tank**, used for making custom solvent blends, with maximum capacity of 70,817,300 gallons per year. Finished blends are packaged directly from the blend tanks or transferred to storage tanks.
- (c) Compounding Operations, consisting of mix tanks, blend, **tanks, a 55 gallon portable open-top blend tank**, used for the compounding of water based cleaners with low VOC type additives, with maximum capacity of 39,420,150 gallons per year. Finished blends are packaged directly from the mix tanks or transferred to storage tanks.

...

- (f) The following tanks with over 1 ton per year HAP potential:

...

Tank 86, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 20089.

Tank 87, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 20089.

Tank 88, fixed roof tank with a storage capacity of 4,000 **6,000** gallons, approved for construction in 20089.

Tank 89, fixed roof tank with a storage capacity of 4,000 **6,000** gallons, approved for construction in 20089.

Tank 9092, fixed roof tank with a storage capacity of 10,000 gallons, ~~approved for construction~~ in 2008.

Tank ~~91~~93, fixed roof tank with a storage capacity of 10,000 gallons, ~~approved for construction in 2008.~~
Tank 90, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.
Tank 91, fixed roof tank with a storage capacity of 6,000 gallons, approved for construction in 2009.

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

...

D.1.2 Volatile Organic Compounds (VOC) [326 IAC 8-1-6] [326 IAC 2-8-11.1(d)(5)]

...

- (c) Pursuant to 326 IAC 2-8-11.1(d)(5), and in order to render the requirements of 326 IAC 8-1-6 not applicable, the Permittee shall limit the VOC materials usage to 500 gallon open-top blend tank such that VOC emissions shall be limited to less than 25 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Compliance with this limit will be determined using the formula included in condition D.1.8. Compliance with this limit makes the requirements of 326 IAC 8-1-6 not applicable.

...

D.1.4 Volatile Organic Compounds (VOC) [326 IAC 2-8-4(1)] [326 IAC 8-1-6]

The VOC emissions from the three (3) cargo tank/tote blowers shall not exceed 9.9 tons per twelve (12) consecutive month period combined, with compliance determined at the end of each month. Compliance with this limit will be determined using the formula included in Condition D.1.7(a) below.

...

D.1.8 Volatile Organic Compounds (VOC)

VOC emissions from the two (2) open-top blend tanks shall be calculated using the following formula:

$$\text{VOC (tons/time period)} = G_{\text{voc}} * (D * W) * \frac{1 \text{ ton}}{2,000 \text{ lbs}} * \frac{\text{EF}}{1 \text{ ton}} * \frac{1 \text{ ton}}{2,000 \text{ lbs}}$$

Where:

G_{VOC} = Total Gallons of product blended in each open top blend tank per designated time period.

D = Density of blended product (lbs/gallon)

W = Weight percent of VOC in blended product

EF = 30 pounds VOC emitted per ton of product blended (from AP-42 Table 6.4-1)

Due to the above addition, subsequent sections D.1.8 (Record Keeping Requirements) and D.1.9 (Reporting Requirements) were re-numbered throughout the permit.

D.1.89 Record Keeping Requirements

- (a) To document compliance with Conditions D.1.1, D.1.2, D.1.3, and D.1.4, the Permittee shall keep records of chemicals inventory and throughput for each transfer and storage operation (input and output data of Chempax system and TANKS program), ~~and~~ for each cargo tank/tote dried by the cargo tank/tote blowers, **and for the two (2) open-top blend tanks**. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period and shall include, but not limited to:

To show compliance with D.1.2(c), the Quarterly Report Form was added for the 500 gallon portable open-top blend tank and is shown on the next page:

(8)

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

FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286
Facility: The 500 gallon portable open-top blend tank
Parameter: Volatile Organic Compound Emissions
Limit: less than 25 tons of VOC per twelve consecutive month period, with compliance determined at the end of each month.

YEAR: _____ **QUARTER:** _____

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

- No deviation occurred in this quarter.
- Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

(9) FESOP Quarterly Report

Source Name: Superior Oil Company, Inc.
Source Address: 400 West Regent Street, Indianapolis, Indiana 46225
Mailing Address: 1402 North Capitol Avenue, Indianapolis, Indiana 46202
FESOP No.: F097-18042-00286
Facility: Special Processing Unit, identified as TEA1
Parameter: Volatile Organic Compound Emissions
Limit: less than 25 tons of VOC per twelve consecutive month period, ~~rolled monthly with~~
compliance determined at the end of each month.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on March 5, 2009.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Minor Permit Revision No. F097-27575-00286. The staff recommends to the Commissioner that this FESOP Minor Permit Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Sarah Conner, Ph. D. at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-6555 or toll free at 1-800-451-6027 extension 4-6555.
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

**Appendix A: Emission Calculations
PTE Summary**

Company Name: Superior Oil Company
Address City IN Zip: 1402 North Capital Avenue, Suite 100, Indianapolis, IN 46202
Permit Number: F097-27575-00286
Reviewer: Sarah Conner, Ph. D.
Date: 3/16/2009

Unlimited PTE of Revisions									
Emission Unit	tons/yr							Total Combined HAPs	Worst Single HAP
	*PM	*PM-10	*PM2.5	VOC	SO2	NOx	CO		
Tanks 86 through 91	-	-	-	8.28	-	-	-	8.28	13.03 (Hexane)
Shar Mixer 500 gallon	-	-	-	86.78	-	-	-	-	-
Shar Mixer 55 gallon	-	-	-	11.49	-	-	-	-	-
Total (tons/yr)	0.00	0.00	0.00	98.27	0.00	0.00	0.00	8.28	13.03 (Hexane)

Limited PTE Prior to Revisions									
	tons/yr							Total Combined HAPs	Worst Single HAP
	*PM	*PM-10	*PM2.5	VOC	SO2	NOx	CO		
Loading Rack	-	-	-	89.72	-	-	-	<24.5	<9.8
Blending Operations	-	-	-		-	-	-		
Compounding Operations	-	-	-		-	-	-		
Three (3) Container Filling Operations	-	-	-		-	-	-		
Special Processing Unit and Storage Tanks	-	-	-		-	-	-		
Insignificant Degreasing Operation	-	-	-		-	-	-		
Three (3) Cargo Tank/Tote Blowers	-	-	-	9.90	-	-	-		
Insignificant Activities (Natural Gas Combustion)	0.10	0.39	0.39	0.28	0.03	5.10	4.29	0.10	0.09 (Hexane)
Total Limited PTE of Entire Source(tons/yr)	0.10	0.39	0.39	99.90	0.03	5.10	4.29	24.60	9.89

Limited PTE with Revisions									
	tons/yr							Total Combined HAPs	Worst Single HAP
	*PM	*PM-10	*PM2.5	VOC	SO2	NOx	CO		
Loading Rack	-	-	-	89.72	-	-	-	<24.5	<9.8
Blending Operations (including the 500 gallon open-top blend tank)	-	-	-		-	-	-		
Compounding Operations (including the 55 gallon open-top blend tank)	-	-	-		-	-	-		
Three (3) Container Filling Operations	-	-	-		-	-	-		
Special Processing Unit and Storage Tanks (which include tanks 86 through 93)	-	-	-		-	-	-		
Insignificant Degreasing Operation	-	-	-		-	-	-		
Three (3) Cargo Tank/Tote Blowers	-	-	-	9.90	-	-	-		
Insignificant Activities (Natural Gas Combustion)	0.10	0.39	0.39	0.28	0.03	5.10	4.29	0.10	0.09 (Hexane)
Total Limited PTE of Entire Source(tons/yr)	0.10	0.39	0.39	99.90	0.03	5.10	4.29	24.60	9.89

Modifications and New Tanks Summary

Company Name: Superior Oil Company
Address City IN Zip: 1402 North Capital Avenue, Suite 100, Indianapolis, IN 46202
Permit Number: F097-27575-00286
Reviewer: Sarah Conner, Ph. D.
Date: 3/16/2009

New Tank Farm (Modification)

Tank Emissions

Reference Tanks 4.0.9d Reports

F097-27575-000286

Status	Modification	Tank I.D. #	Tank Size	Product Name (Worst Case)	V.P. @ 100°F	Qty (gal)	Potential to Emit		VOC /HAP Emissions (tons)
							VOC Emissions (lbs.)	HAP Emissions (lbs.)	
permitted	upgrade tank to cone bottom	86	6,000 gallon (SS, cone)	Hexane	5.60	2,825,100	2,758.36	2,758.36	1.379
permitted	upgrade tank to cone bottom	87	6,000 gallon (SS, cone)	Hexane	5.60	2,825,100	2,758.36	2,758.36	1.379
permitted	4k to 6k cone	88	6,000 gallon (SS, cone)	Hexane	5.60	2,825,100	2,758.36	2,758.36	1.379
permitted	4k to 6k cone	89	6,000 gallon (SS, cone)	Hexane	5.60	2,825,100	2,758.36	2,758.36	1.379
Addition	new	90	6,000 gallon (SS, cone)	Hexane	5.60	2,825,100	2,758.36	2,758.36	1.379
Addition	new	91	6,000 gallon (SS, cone)	Hexane	5.60	2,825,100	2,758.36	2,758.36	1.379
100% VOC / HAP							Total VOC/HAP for Tanks 86 through 93		8.275

Product Storage Time: 24 hours per day, 7 days per week, 365 days per year

Pump Flow Rate: 100 gpm (limiting factor, there is only one dedicated pump for this area)

Tank I.D. #	Tank Size	Fill / Empty Time	Cycles per Day	Throughput / Day	Annual Throughput
86	6,000 gallon	120 min.	* 1.29	7,740 gallons	* 365 = 2,825,100 gall.
87	6,000 gallon	120 min.	* 1.29	7,740 gallons	* 365 = 2,825,100 gall.
88	6,000 gallon	120 min.	* 1.29	7,740 gallons	* 365 = 2,825,100 gall.
89	6,000 gallon	120 min.	* 1.29	7,740 gallons	* 365 = 2,825,100 gall.
90	6,000 gallon	120 min.	* 1.29	7,740 gallons	* 365 = 2,825,100 gall.
91	6,000 gallon	120 min.	* 1.29	7,740 gallons	* 365 = 2,825,100 gall.
Totals:	56,000 gallons / cycle	1,120 minutes		72,240 gallons	

Time to Fill / Empty All Tanks: $\frac{1,120 \text{ minutes}}{60 \text{ minutes}} = 18.66 \text{ hours / cycle}$

Cycles per Day: $\frac{24 \text{ hours / day}}{18.66 \text{ hours / cycle}} = 1.29 \text{ cycles / day}$

Total Throughput per day: 56,000 gall. per Cycle * 1.29 cycles / day = 72,240 gallons / day

**Addition of Emissions Unit
55 gallon Drum - Shar Mixer**

Company Name: Superior Oil Company
Address City IN Zip: 1402 North Capital Avenue, Suite 100, Indianapolis, IN 46202
Permit Number: F097-27575-00286
Reviewer: Sarah Conner, Ph. D.
Date: 3/16/2009

F097-27575-000286

Date	Output Product Name	Qty (lb)	Qty (tons)	Qty (gal)	Time (min)	Emissions Factor (lbs.)	Total Emissions (lbs.)	VOC Emissions (lbs.)	
	Potential to Emit								
PTE	Speciality Blending	1,531,880	765.94	210,423	252,507	30	22,978.20	22,978.20	100 % VOC
	Trade Name: S-7012	d-limonene (29%)						11.49	
Actual	Actual Emissions								
	Speciality Blending	8,736	4.37	1,200	1,440	30	131.04	131.04	100 % VOC
	Trade Name: S-7012	d-limonene (29%)						0.07	
	** Emission factor pulled from AP 42 Chapter 6. Paint and Varnish Manufacturing (Table 6.4-1). The factor is 30 pounds emitted for every ton of product added. **								

PTE Throughput:

Batch Size / Mix Time: 50 gallons (1 hour mix time: includes dissolving solid ingredients into solution)
Down time between blends: 1 hour drum change-out (Sampling QA/QC), product staging, etc.
Pump Time (Container Fill): 5 minutes to fill container (while blending)

During 24 hour Period: 1 hour mix time
 1 hour down-time between blends
 0.08 hours (1 minute) - drum fill time before blending
 2.08 hour batch time (PTE can complete 11.53 batches in a 24 hour period)
 11.53 batches/day * 1 hr. mix time/batch = 11.53 hours

11.53 hours/Day Mix Time * 365 days/year = **4,208.45 hours per year**
Total Throughput: 4,208.45 hours / year * 50 gallons/batch = **210,423 gallons / year**
Total lbs. / year: 210,423 gallons * 7.28 lbs. / gallon = **1,531,880 lbs. / year**

Actual Throughput:

During a Calendar Month: 2 hour mix time
 (Currently - this product only needs to be made 2 X's / month)
 - use of this drum shar mixer will prevent the use of one of the large mix tanks)

2 hours Mix time / month * 12 months/year = **24 hours per year**
Total Throughput: 24 hours / year * 50 gallons/batch/hour = **1,200 gallons / year**
Total lbs. / year: 1,200 gallons * 7.28 lbs. / gallon = **8,736 lbs. / year**

**Addition of Emissions Unit
500 gallon Shar Tub and Mixer**

Company Name: Superior Oil Company
Address City IN Zip: 1402 North Capital Avenue, Suite 100, Indianapolis, IN 46202
Permit Number: F097-27575-00286
Reviewer: Sarah Conner, Ph. D.
Date: 3/16/2009

F097-27575-000286

Date	Output Product Name	Qty (lb)	Qty (tons)	Qty (gal)	Time (min)	Emissions Factor (lbs.)	Total Emissions (lbs.)	VOC Emissions (lbs.)
	Potential to Emit							
PTE	Speciality Blending	11,571,230	5,785.62	1,766,600	240,900	30	173,568.45	173,568.45
	product components:	Resin Mixture						
		28% Resin						
		72% Isopropyl Alcohol						
Actual	Actual Emissions							
	Speciality Blending	3,155,790	1,577.90	481,800	65,700	30	47,336.85	47,336.85
	product components:	Resin Mixture						
		28% Resin						
		72% Isopropyl Alcohol						
	** Emission factor pulled from AP 42 Chapter 6. Paint and Varnish Manufacturing (Table 6.4-1). The factor is 30 pounds emitted for every ton of product added. **							

Batch Size / Mix Time: 440 gallons (1 hour blend time, includes sampling, Lab QA/QC)
Down time between blends: 1 hour tank rinse
Pump Time (Loading Rack): 1 hour to fill (70 gpm)
Container Fill Operation (Finished Product): 1 hour (70 gpm)

During 24 hour Period: 1 hour blend time (440 gallons throughput)
 1 hour - Tank Rinse
 0.12 hours - tank fill time before blending
 0.12 hours - container fill
 2.24 hour batch time (PTE can complete 11 batches in a 24 hour period)

11 hours/Day Mix Time * 365 days/year = **4,015 hours per year**
Total Throughput: 4,015 hours / year * 440 gallons = **1,766,600 gallons / year**

Total lbs. / year: 1,766,600 gallons * 6.55 lbs. / gallon = **11,571,230 lbs. / year**

During 8 hour Period: 1 hour blend time (440 gallons throughput)
 1 hour - Tank Rinse
 0.12 hours - tank fill time before blending
 0.12 hours - container fill
 2.24 hour batch time (Actual - 3 batches in 8 hour work day)

3 hours/Day Blend Time * 365 days/year = **1,095 hours per year**
Total Throughput: 1,095 hours / year * 440 gallons = **481,800 gallons / year**

Total lbs. / year: 481,800 gallons * 6.55 lbs. / gallon = **3,155,790 lbs. / year**