



# 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](http://www.idem.IN.gov)

TO: Interested Parties / Applicant

DATE: June 16, 2008

RE: Safety-Kleen Oil / 089-21726-00301

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 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, 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 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, 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.dot12/03/07



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Mr. Denny Zawodni  
Safety-Kleen Oil Recovery Co.  
601 Riley Road  
East Chicago, Indiana 46312-1638

June 16, 2008

Re: **089-21726-00301**  
Significant Source Modification to:  
**Part 70 No.: T 089-7556-00301**

Dear Mr. Zawodni:

Safety-Kleen Oil Recovery Co. was issued Part 70 Operating Permit T 089-7556-00301 on October 16, 2003 for an oil re-refining source. An application to modify the source was received on July 29, 2005. Pursuant to 326 IAC 2-7-10.5, the installation of an off-gas component is approved for construction at the following emission unit:

- (j) (1) One (1) process heater, fueled by a combination of natural gas and off-gases, identified as H-406, installed in 2002, with a maximum capacity of 20.0 MMBtu/hr, equipped with a low NO<sub>x</sub> burner, and exhausting through stack H-406.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. 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 and 326 IAC 2-7-10.5(i), 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.
6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

This significant source modification authorizes construction of the off-gas capability at Process Heater H-406. Operating conditions shall be incorporated into the Part 70 Operating Permit as a significant permit modification in accordance with 326 IAC 2-7-10.5(l)(2) and 326 IAC 2-7-12. Operation is not approved until the significant permit modification has been issued.

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 Aida De Guzman at (800) 451-6027, press 0 and ask for extension (3-4972), or dial (317) 233-4972.

Original signed by,

Donald F. Robin, P.E., Section Chief  
Permits Branch  
Office of Air Quality

Attachments

APD

cc: File - Lake County  
U.S. EPA, Region V  
Lake County Health Department  
Northwest Regional Office  
Air Compliance Section Inspector  
Compliance Data Section  
Administrative and Development  
Mike Ebert - Safety-Kleen Oil Recovery Co.



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## PART 70 SIGNIFICANT SOURCE MODIFICATION OFFICE OF AIR QUALITY

**Safety-Kleen Oil Recovery Co.  
601 Riley Road  
East Chicago, Indiana 46312-1638**

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

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17. This permit also addresses certain new source review requirements for existing equipment and is intended to fulfill the new source review procedures pursuant to 326 IAC 2-7-10.5, applicable to those conditions.

Significant Source Modification No. 089-21726-00301	
Original signed by:  Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: June 16, 2008

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## SECTION A

## SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary oil re-refinery source.

Source Address:	601 Riley Road, East Chicago, Indiana 46312-1638
Mailing Address:	601 Riley Road, East Chicago, Indiana 46312-1638
General Source Phone Number:	(219) 391-6100
SIC Codes:	2911 and 2992
County Location:	Lake
Source Location Status:	Nonattainment for Ozone under the 8-hour and 1-hour standards, and PM <sub>2.5</sub> Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD and Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act Not in 1 of 28 listed source categories

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

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

- (a) One (1) natural gas-fired boiler, identified as SB-801, installed in 1981, with a maximum capacity of 36.0 MMBtu/hr, and exhausting through stack SB-801.
- (b) One (1) natural gas-fired boiler, identified as SB-820, installed in 1991, with a maximum capacity of 44.5 MMBtu/hr, and exhausting through stack SB-820.
- (c) One (1) natural gas-fired boiler, identified as SB-821, installed in 1990, with a maximum capacity of 42.5 MMBtu/hr, and exhausting through stack SB-821.
- (d) One (1) process heater, fueled by a combination of natural gas, No. 2 fuel oil equivalent, and off-gases, identified as H-201, installed in 1990, with a maximum capacity of 27.3 MMBtu/hr, and exhausting through stack H-201.
- (e) One (1) process heater, fueled by a combination of natural gas and No. 2 fuel oil equivalent, identified as H-301, installed in 1989, with a maximum capacity of 20.0 MMBtu/hr, and exhausting through stack H-301.
- (f) One (1) natural gas-fired process heater, identified as H-302, installed in 1992, with a maximum capacity of 15.1 MMBtu/hr, and exhausting through stack H-302.
- (g) One (1) process heater, fueled by a combination of natural gas, No. 2 fuel oil equivalent, and off-gases, identified as H-401, installed in 1990, with a maximum capacity of 15.3 MMBtu/hr, and exhausting through stack H-401.

- (h) One (1) process heater, fueled by a combination of natural gas and No. 2 fuel oil equivalent, identified as H-402, installed in 1990, with a maximum capacity of 11.7 MMBtu/hr, and exhausting through stack H-402.
- (i) One (1) natural gas-fired process heater, identified as H-404, installed in 1994, with a maximum capacity of 9.0 MMBtu/hr, and exhausting through stack H-404.
- (j) One fractionation tower system installed in 2002, consisting of:
  - (1) One (1) process heater, fueled by a combination of natural gas and off-gases, identified as H-406, installed in 2002, with a maximum capacity of 20.0 MMBtu/hr, equipped with a low NO<sub>x</sub> burner, and exhausting through stack H-406.
  - (2) One (1) vacuum tower.
  - (3) Six (6) air coolers.
  - (4) Two (2) air strippers.
  - (5) Two (2) vacuum pumps and twenty (20) miscellaneous pumps.
- (k) One (1) storage tank, identified as T-9, installed in 1968, with a maximum capacity of 20,000 gallons.
- (l) Two (2) storage tanks, identified as T-26 and T-27, installed in 1968, with a maximum capacity of 19,110 gallons, each.
- (m) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-51, installed in 1993, with a maximum capacity of 4,000,000 gallons, storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).
- (n) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-52, installed in 1966, with a maximum capacity of 126,000 gallons.
- (o) Eleven (11) storage tanks, identified as T-101 through T-108, and T-110 through T-112, installed in 1989, with a maximum capacity of 30,000 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (p) Two (2) storage tanks, identified as T-906 and T-907, installed in 1989, with a maximum capacity of 30,598 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (q) Fourteen (14) storage tanks, identified as T-931, T-932, T-935, T-936, T-941, T-942, T-944, T-945, T-948, T-949, T-951, T-952, T-981 and T-982, installed in 1989, with a maximum capacity of 29,611 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (r) Four (4) storage tanks, identified as T-933, T-934, T-946 and T-947, installed in 1989, with a maximum capacity of 29,617 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).

- (s) One (1) storage tank, identified as T-109, installed in 1989, with a maximum capacity of 20,000 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (t) Two (2) storage tanks, identified as T-120 and T-121, installed in 1989, with a maximum capacity of 15,000 gallons, each.
- (u) Four (4) storage tanks, identified as T-651 through T-654, installed in 1992, with a maximum capacity of 30,401 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (v) Four (4) storage tanks, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-901 through T-904, installed in 1989, with a maximum capacity of 640,000 gallons, each, storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).
- (w) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-905, installed in 1989, with a maximum capacity of 120,000 gallons.
- (x) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-908, installed in 1989, with a maximum capacity of 170,000 gallons.
- (y) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-909, installed in 1952, with a maximum capacity of 2,000,000 gallons, storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).
- (z) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-911, installed in 1989, with a maximum capacity of 120,000 gallons.
- (aa) Two (2) storage tanks, identified as T-912 and T-913, installed in 1993, with a maximum capacity of 30,000 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (bb) Three (3) storage tanks, identified as T-914 through T-916, installed in 1993, with a maximum capacity of 31,028 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (cc) Two (2) storage tanks, identified as T-953 and T-954, installed in 1993, with a maximum capacity of 29,611 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (dd) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-937, installed in 1989, with a maximum capacity of 300,000 gallons.
- (ee) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-938, installed in 1989, with a maximum capacity of 170,000 gallons.
- (ff) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-939, installed in 1989, with a maximum capacity

of 640,000 gallons, storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).

- (gg) One (1) storage tank, identified as T-950, installed in 1989, with a maximum capacity of 9,024 gallons.
- (hh) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-955, installed in 1994, with a maximum capacity of 128,520 gallons.
- (ii) Two (2) storage tanks, identified as T-961 and T-962, installed in 1994, with a maximum capacity of 30,000 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (jj) One (1) storage tank, identified as T-917, installed in 1995, with a maximum capacity of 31,208 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (kk) Degreasing operations consisting of the following:
  - (1) One (1) cold cleaner, identified as Maintenance Degreaser, with an annual solvent usage of 1060 gallons per year. This degreaser does not use halogenated solvents.
  - (2) One (1) cold cleaner, identified as Railcar Unloading Area Degreaser, with an annual solvent usage of 1060 gallons per year. This degreaser does not use halogenated solvents.
  - (3) One (1) cold cleaner, identified as Tanker Trailer Unloading Bays 1&2, with an annual solvent usage of 840 gallons per year. This degreaser does not use halogenated solvents.
  - (4) One (1) cold cleaner, identified as Tanker Trailer Unloading Bays 3&4, with an annual solvent usage of 840 gallons per year. This degreaser does not use halogenated solvents.

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

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.
  - One (1) cold cleaner degreasing unit that does not use halogenated solvents, identified as Maintenance Degreaser 2, installed before 1990, capacity: 40 gallons of cleaning solvent per year. [326 IAC 8-3-2] [326 IAC 8-3-5]
- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4] [326 IAC 6-1-11.1] Covered in Conditions C.5 and C.6.
- (c) Fugitive dust from vehicle traffic. [326 IAC 6-4] [326 IAC 6-1-11.1] Covered in Conditions C.5 and C.6.

- (d) Other activities or categories not previously identified:

One (1) storage tank, identified as T-983, installed in 2005, with a maximum capacity of 30,000 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa). [326 IAC 8-9-6(a) and (b)]

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

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

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

## **SECTION B GENERAL CONDITIONS**

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

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

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

- (a) This permit, T 089-7556-00301 is issued for a fixed term of five (5) years from the original date, 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.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

### **B.3 Enforceability [326 IAC 2-7-7]**

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

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

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the sources existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

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

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

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

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

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

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

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

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

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

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- (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 in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management  
Compliance Branch, 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, Air Enforcement Branch - Indiana (AE-17J)  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

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

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

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

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- (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 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 responsible official as defined by 326 IAC 2-7-1(34).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by the responsible official as defined by 326 IAC 2-7-1(34).
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

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- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;

- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

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

Telephone Number: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
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 2-7-5(3)(C)(ii) and must contain the following:

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

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

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.

- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
  - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
  - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
  - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
  - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

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

**B.14 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]**

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
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 not need to be included in this report.

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

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

**B.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]**

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- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the responsible official as defined by 326 IAC 2-7-1(34).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, determines any of the following:
  - (1) That this permit contains a material mistake.
  - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
  - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-4]

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

Request for renewal shall be submitted to:

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

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]
  - (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, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]  
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as being needed to process the application.
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]  
If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

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B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

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- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251  
  
Any such application shall be certified by the responsible official as defined by 326 IAC 2-7-1(34).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

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B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]  
[326 IAC 2-7-12 (b)(2)]

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

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B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

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- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
  - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;

- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue  
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 2-7-20(b), (c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

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

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

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

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

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

**B.20 Source Modification Requirement [326 IAC 2-7-10.5]**

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A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.

**B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1]**

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

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

**B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]**

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- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

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

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

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

B.24 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

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

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

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

#### C.1 Opacity [326 IAC 5-1]

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

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

#### C.2 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

#### C.3 Incineration [326 IAC 4-2] [326 IAC 9-1-2]

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

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

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

#### C.5 Fugitive Dust Emissions [326 IAC 6-1-11.1]

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

- (a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).
- (b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).
- (c) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).
- (d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.
- (e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.

- (f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.
- (g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).
- (h) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.
- (i) The PM<sub>10</sub> emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.
- (j) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).
- (k) Any facility or operation not specified in 326 IAC 6-1-11.1(d) shall meet a twenty percent (20%), three (3) minute average opacity standard.

The Permittee shall achieve these limits by controlling fugitive particulate matter emissions according to the Fugitive Dust Control Plan, submitted on August 18, 2002.

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

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

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

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

- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue  
MC 61-52 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 "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
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 "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

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

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue  
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 the inability to meet this date.

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

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

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

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

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

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

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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 Branch, Office of Air Quality  
100 North Senate Avenue  
MC 61-53 IGCN 1003  
Indianapolis, Indiana 46204-2251

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

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

(c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.

(d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.

(e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.

(f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

### **C.13 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]**

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

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

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(a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

(1) initial inspection and evaluation;

- (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
- (1) monitoring results;
  - (2) review of operation and maintenance procedures and records;
  - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall maintain the following records:
- (1) monitoring data;
  - (2) monitor performance data, if applicable; and
  - (3) corrective actions taken.

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

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

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

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

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

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- (a) In accordance with the compliance schedule specified in 326 IAC 2-6-3(b)(1), the Permittee shall submit by July 1 an emission statement covering the previous calendar year as follows:

- (1) Starting in 2007 and every three (3) years thereafter, and
  - (2) Any year not already required under (1) if the source emits volatile organic compounds or oxides of nitrogen into the ambient air at levels equal to or greater than twenty-five (25) tons during the previous calendar year.
- (b) The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:
- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
  - (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant which is used only for purposes of Section 19 of this rule") from the source, for purposes of fee assessment.

The statement must be submitted to:

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

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

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

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

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

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the responsible official as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
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 responsible official as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

### **Stratospheric Ozone Protection**

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

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

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

## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Boilers and Process Heaters

- (a) One (1) natural gas-fired boiler, identified as SB-801, installed in 1981, with a maximum capacity of 36.0 MMBtu/hr, and exhausting through stack SB-801.
- (b) One (1) natural gas-fired boiler, identified as SB-820, installed in 1991, with a maximum capacity of 44.5 MMBtu/hr, and exhausting through stack SB-820.
- (c) One (1) natural gas-fired boiler, identified as SB-821, installed in 1990, with a maximum capacity of 42.5 MMBtu/hr, and exhausting through stack SB-821.
- (d) One (1) process heater, fueled by a combination of natural gas, No. 2 fuel oil equivalent, and off-gases, identified as H-201, installed in 1990, with a maximum capacity of 27.3 MMBtu/hr, and exhausting through stack H-201.
- (e) One (1) process heater, fueled by a combination of natural gas and No. 2 fuel oil equivalent, identified as H-301, installed in 1989, with a maximum capacity of 20.0 MMBtu/hr, and exhausting through stack H-301.
- (f) One (1) natural gas-fired process heater, identified as H-302, installed in 1992, with a maximum capacity of 15.1 MMBtu/hr, and exhausting through stack H-302.
- (g) One (1) process heater, fueled by a combination of natural gas, No. 2 fuel oil equivalent, and off-gases, identified as H-401, installed in 1990, with a maximum capacity of 15.3 MMBtu/hr, and exhausting through stack H-401.
- (h) One (1) process heater, fueled by a combination of natural gas and No. 2 fuel oil equivalent, identified as H-402, installed in 1990, with a maximum capacity of 11.7 MMBtu/hr, and exhausting through stack H-402.
- (i) One (1) natural gas-fired process heater, identified as H-404, installed in 1994, with a maximum capacity of 9.0 MMBtu/hr, and exhausting through stack H-404.
- (j) One fractionation tower system installed in 2002, consisting of:
  - (1) One (1) process heater, fueled by a combination of natural gas and off-gases, identified as H-406, installed in 2002, with a maximum capacity of 20.0 MMBtu/hr, equipped with a low NO<sub>x</sub> burner, and exhausting through stack H-406.
  - (2) One (1) vacuum tower.
  - (3) Six (6) air coolers.
  - (4) Two (2) air strippers.
  - (5) Two (2) vacuum pumps and twenty (20) miscellaneous pumps.

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

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

### D.1.1 Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4.1-16]

- (a) Pursuant to 326 IAC 7-4.1-16(1), Boilers SB-801, SB-820, and SB-821, and Process Heaters H-302 and H-404 shall use natural gas only.
- (b) Pursuant to 326 IAC 7-4.1-16(2), the following requirements shall apply:
- (1) Process Heater H-201, with a capacity (rating) of twenty-seven and three-tenths (27.3) MMBtu per hour, shall use a combination of natural gas, No. 2 fuel oil equivalent, and off-gases;
  - (2) Process Heater H-301, with a capacity of twenty and zero-tenths (20.0) MMBtu per hour, shall use a combination of natural gas and No. 2 fuel oil equivalent; and
  - (3) The combined sulfur dioxide emissions from these two (2) process heaters shall not exceed fourteen (14) pounds per hour and sixty (60) tons per year.
- (c) Pursuant to 326 IAC 7-4.1-16(3), the following requirements shall apply:
- (1) Process Heater H-401, with a capacity of fifteen and three-tenths (15.3) MMBtu per hour, shall use a combination of natural gas, No. 2 fuel oil equivalent, and off-gases;
  - (2) Process Heater H-402, with a capacity of eleven and seven-tenths (11.7) MMBtu per hour, shall use a combination of natural gas and No. 2 fuel oil equivalent; and
  - (3) The combined sulfur dioxide emissions from these two (2) process heaters shall not exceed ten and eight-tenths (10.8) pounds per hour and forty-seven and three-tenths (47.3) tons per year.
- (d) Pursuant to 326 IAC 7-4.1-16(4), Process Heater H-406, with a capacity of twenty (20.0) MMBtu per hour, shall use a combination of natural gas and off-gases. The sulfur dioxide emissions shall not exceed eight (8) pounds per hour.
- (e) To demonstrate compliance with the SO<sub>2</sub> emission limits in paragraphs (b)(3), (c)(3), and (d) of this condition, the SO<sub>2</sub> emission rates shall be calculated using the following emission factors:

Fuel Type	Emission Factor for Process Heaters
Natural Gas	0.6 pounds per million cubic feet of natural gas
Off-gases	950 pounds per million cubic feet of off-gas times the sulfur content (%)
No. 2 Fuel Oil Equivalent	142 pounds per kilo-gallon of No. 2 fuel oil equivalent times the sulfur content (%)

### D.1.2 Nonapplicability of Previous Permit Condition

- (a) Pursuant to CP 089-4399-00301, issued on June 12, 1998, and variance issued on December 3, 1998, Condition No. 9 stated that the sulfur dioxide emissions from the source shall be limited to one hundred thirty (130) tons per year. Therefore, the

requirements of 326 IAC 2-3 are not applicable. This condition is not applicable since it has been superseded by the SO<sub>2</sub> emission limitations pursuant to 326 IAC 7-4-1.1 (Sulfur Dioxide Emission Limitations: Lake County).

- (b) Pursuant to CP 089-4399-00301, issued on June 12, 1998 this emission offset will make 326 IAC 2-3 not applicable.
- (1) Low NO<sub>x</sub> burners shall be installed or modified on the seven (7) process heaters H-201 (increased rated capacity from 27.0 to 45.0 million British thermal units per hour), H-301, H-302, H-401, H-402, H-404 and H-405 and operated at all times.
  - (2) Flue gas recirculation systems shall be installed on the two (2) boilers, identified as SB-820 and SB-821; if any or all of the emission units in (a) are constructed or modified.
  - (3) The boiler SB-801 shall be removed from service when H-200 is put into service, and the existing process heater (H-403) shall be removed from service when heater H-405 is put into service.
  - (4) Flue gas recirculation system shall be installed on the one (1) boiler, identified as SB-822; if the rated capacity of this boiler increases from 34.0 to 44.6 million British thermal units per hour.
  - (5) These conditions in combination with Conditions D.1.1 and D.1.3 are necessary to make 326 IAC 2-3 not applicable.
  - (6) If the Permittee desires to substitute low NO<sub>x</sub> burners for flue gas recirculation, the Permittee shall demonstrate that the NO<sub>x</sub> emission factor for the low NO<sub>x</sub> burners is equivalent to or lower than the emission factor for flue gas recirculation to IDEM, OAQ prior to the construction of these control devices.

This condition is not applicable since the equipment listed in CP 089-4399-00301, issued on June 12, 1998 (identified as Low NO<sub>x</sub> burners and the flue gas recirculation) system was not constructed.

#### D.1.3 Particulate [326 IAC 6-2-2]

Pursuant to 326 IAC 6-2-2 (Particulate Emission Limitations for Sources of Indirect Heating), the particulate emissions from boiler, identified as SB-801, which was existing and in operation after June 8, 1972 and prior to September 21, 1983, shall not exceed 0.49 pounds per MMBtu heat input.

This limitation is based on the following equation:

$$Pt = \frac{0.87}{Q^{0.16}} \quad \text{Where: } Pt = \text{Pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input.}$$

Q = total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input.

#### D.1.4 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating: emission limitations for facilities specifically listed in 326 IAC 6-2-1(d)), particulate emissions from the two (2) boilers (SB-820 and SB-821), installed after September 21, 1983, shall not exceed 0.30 and 0.33 pounds of particulate matter per MMBtu heat input, respectively.

The limitations are based on the following equation:

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

Where Pt = pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input.

Q = capacity for facility in question and capacity of those facilities which were previously constructed or received prior permits to construct.

#### D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the one (1) indirect heating unit, identified as H-301, as well as the three (3) process heaters, identified as H-201, H-401, H-402 and their control devices.

### **Compliance Determination Requirements**

#### D.1.6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 7-4.1-16(5)]

(a) Compliance with Condition D.1.1, shall be determined utilizing 326 IAC 7-4.1-16(5)(A) as follows:

- (1) Monitor sulfur content in the off-gas streams for Process Heaters H-201, H-401, and H-406.
- (2) Prior to sampling the fuel in the fuel tank, mix the contents of the tank to ensure consistent composition of the fuel throughout the tank.
- (3) Perform fuel sampling and analysis for the sulfur content of the fuel in each fuel tank:
  - (A) Prior to the first time the fuel is burned; and
  - (B) Subsequently, prior to burning the fuel whenever additional fuel has been added to the tank since the last sampling event.
- (4) Maintain records sufficient to demonstrate compliance for at least three (3) years.
- (5) Submit an excess emissions report to the department within thirty (30) days after the end of each calendar quarter.

(b) In order to determine compliance with the hourly and annual SO<sub>2</sub> emission limitations in Condition D.1.1(a)(3), (b)(3), (c)(3), and (d), the Permittee shall utilize the fuel sampling and analysis protocol specified in the 326 IAC 7-4.1-16(5) compliance option that Safety-Kleen Oil Recovery Co. selected in paragraph (a) of this condition. The protocol states:

- (1) For liquid heater fuel:

#### Sampling

Subsequent to the addition and mixing of liquid heater fuel into a tank, a sample shall be obtained in the following manner:

- (A) The operator shall drain off approximately one (1) gallon from the sample tap before taking the sample;

- (B) The sample shall be labeled (with the tank number, product type, date, time and initials of the sampler); and
- (C) The sample shall be submitted to the on-site laboratory for analysis

Analysis

- (D) The laboratory personnel shall enter the sample into the sample log book;
- (E) The sample will be analyzed using an ELTRA CS-500 Double Dual Range Carbon/Sulfur Determinator. This Sulfur Determinator utilizes method ASTM D1552-03 to determine sulfur content; or as back up, an Inductively Coupled Plasma Analyzer utilizing EPA Test Method 6010 shall be used to determine sulfur content;
- (F) The results of the analysis shall be recorded in the sample log book; and
- (G) The laboratory shall issue a tank release form to the operator, which will indicate the sulfur content of the heater fuel.
- (H) Once the tank release form is issued, the contents of the tank shall be available to fuel the process heaters.
- (I) Anytime that heater fuel is added to the tank, the sampling and analysis process noted in paragraphs (b)(1)(A) through (H) of this condition shall be repeated for the tank.

(2) For off-gas fuel:

Except for monitoring system malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments) the Permittee shall monitor continuously (or collect data at all required intervals) any time a source of emissions is operating.

- (A) Two (2) Antec P6200S Analyzers shall be used for the sulfur analysis of the off-gas fuel streams. With these analyzers, the sample is pyrolyzed with an excess of oxygen, which converts all of the components in the sample to permanent gases. Sulfur compounds are converted to sulfur dioxide (SO<sub>2</sub>). A copy of the Operation Summary for the P6200 Process Analyzer as provided by the manufacturer is attached to SPM 089-21542-00301.
  - (i) One (1) analyzer shall be connected to the supply line from V-410, through which the off-gas flows to the process heaters. The analyzer shall be programmed to automatically sample and analyze this supply line, at a minimum of four (4) times per hour.
  - (ii) One (1) analyzer shall be connected to the supply line from V-307, through which the off-gas flows to the process heaters. The analyzer shall be programmed to automatically sample and analyze this supply line, at a minimum of two (2) times per hour.

- (B) The analyzer shall be connected to the digital control system (DCS) in the Operations Control Room. This DCS shall record and display the concentration in ppm. An alarm is set on the DCS to alert the operator, if concentrations are such that a response is required from the operator.
- (C) Off-gas from process vessel V-423 shall be analyzed annually for sulfur content using methods ASTM D1945/D3588 for major component gas analysis and ASTM D6228 for trace sulfides analysis.

Compliance with the SO<sub>2</sub> emissions limit in Condition D.1.1(d) for Unit H-406 shall be determined by using the following equation:

- (i) Pounds SO<sub>2</sub>/hour determination from process off-gas in Vessel, V-423 per Condition D.1.1 (f):

$$\text{Lbs SO}_2/\text{hour} = \text{MMCF V-423 off-gas /hr.} \times (950 (\%S) \text{ lb} / \text{MMCF off-gas})$$

- (ii) Pounds SO<sub>2</sub>/hour determination from process off-gas Vessel, V-307 per Condition D.1.1 (f) combusted at Heater H-406:

$$\text{Lbs SO}_2/\text{hour} = \text{MMCF V-307 off-gas /hr.} \times (950 (\%S) \text{ lb} / \text{MMCF off-gas})$$

- (iii) Pounds SO<sub>2</sub>/hour determination from process off-gas Vessel, V-410 per Condition D.1.1 (f) combusted at Heater H-406:

$$\text{Lbs SO}_2/\text{hour} = \text{MMCF V-410 off-gas /hr.} \times (950 (\%S) \text{ lb} / \text{MMCF off-gas})$$

- (iv) Pounds SO<sub>2</sub>/hour determination from natural gas combustion at H-406 per Condition D.1.1 (f) combusted at Heater H-406:

$$\text{Lbs SO}_2/\text{hour} = \text{MMCF N.G. combusted at H-406/hr} \times 0.6 \text{ lb/MMCF of N.G.}$$

- (v) Total Lbs SO<sub>2</sub>/hour at H-406 = (i) + (ii) + (iii) + (iv)

#### Monitoring System Malfunction

Back-up off-gas analyzer procedures are as follows:

- (D) Any interruption in the collection of valid data that lasts more than twelve (12) hours shall be substituted with manual sampling. Manual sampling data shall begin within the first twelve (12) hours after the last sample analyzed by the Antec P6200S Analyzer. Manual sampling shall continue once every twelve (12) hour period (once per shift) until a valid analysis has been taken.
- (E) Corrective action shall be taken in the event of an unscheduled monitoring system malfunction.
- (F) IDEM, OAQ shall be notified prior to any scheduled monitoring system malfunction that will last longer than one (1) week.

- (c) In addition, the Permittee shall submit a report to IDEM within thirty (30) days after the end of each calendar quarter. The reports shall contain the following information:
- (1) Daily records of sulfur content that result from the fuel sampling and analysis performed for the following fuels:
    - (A) No. 2 fuel oil equivalent; and
    - (B) Off-gases.
  - (2) Fuel consumption on a daily basis.
- and
- (3) For all monitor system malfunctions, the Permittee shall submit:
    - (A) Beginning and end dates and time of the monitor system malfunction;
    - (B) The corrective actions taken; and
    - (C) The manual sampling data substituted.

**D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

Within 180 days after the installation of the off-gas components at Process Heater H-406, sulfur analysis in order to establish the value used with the emission factor established in Section D.1.1(f). This test shall be performed in accordance with Section D.1.6 (b)(2)(C) or utilizing methods as approved by the Commissioner. This test shall be repeated annually from the date of this valid compliance test. Testing shall be conducted in accordance with Section C - Performance Testing.

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

**D.1.8 Visible Emissions Notations**

- (a) Visible emissions notations of Process Heaters H-201, H-301, H-401 and H-402 stack exhausts shall be performed once per day during normal daylight operations while combusting fuel oil equivalents. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, *anormal* means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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

### **D.1.9 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.1, 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 SO<sub>2</sub> emission limits established in Condition D.1.1. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel (natural gas, No. 2 fuel oil and off-gas) usage since last compliance determination period and equivalent sulfur dioxide emissions;
  - (3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.
- (b) To document compliance with Conditions D.1.1(b)(3), (c)(3), (d) and (e), the Permittee shall maintain records of daily fuel usage as well as a log of the sulfur content obtained from each fuel sampling and analysis performed in accordance with Condition D.1.6(b).
- (c) To document compliance with Condition D.1.8, the Permittee shall maintain records of visible emission notations of the process heater stack exhausts once per day for the process heaters which are combusting No. 2 fuel oil equivalents.
- (d) Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall maintain daily records of the amount and type of fuel burned in each of the two (2) boilers, identified as SB-820 and SB-821, rated at 44.5 and 42.5 MMBtu/hr, respectively.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

### **D.1.10 Reporting Requirements**

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- (a) A quarterly summary of the information to document compliance with the annual (tons per year) limits contained in Conditions D.1.1(b)(3) and (c)(3), and 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 the responsible official@ as defined by 326 IAC 2-7-1(34).
- (b) The natural gas process heater certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired process heater certification does require the certification by the responsible official@ as defined by 326 IAC 2-7-1(34).
- (c) To document compliance with Condition D.1.6(c), the Permittee shall submit a report to IDEM, OAQ within thirty (30) days after the end of each calendar quarter.

## SECTION D.2

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]: Storage Tanks

- (k) One (1) storage tank, identified as T-9, installed in 1968, with a maximum capacity of 20,000 gallons.
- (l) Two (2) storage tanks, identified as T-26 and T-27, installed in 1968, with a maximum capacity of 19,110 gallons, each.
- (m) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-51, installed in 1993, with a maximum capacity of 4,000,000 gallons, storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).
- (n) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-52, installed in 1966, with a maximum capacity of 126,000 gallons.
- (o) Eleven (11) storage tanks, identified as T-101 through T-108, and T-110 through T-112, installed in 1989, with a maximum capacity of 30,000 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (p) Two (2) storage tanks, identified as T-906 and T-907, installed in 1989, with a maximum capacity of 30,598 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (q) Fourteen (14) storage tanks, identified as T-931, T-932, T-935, T-936, T-941, T-942, T-944, T-945, T-948, T-949, T-951, T-952, T-981 and T-982, installed in 1989, with a maximum capacity of 29,611 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (r) Four (4) storage tanks, identified as T-933, T-934, T-946 and T-947, installed in 1989, with a maximum capacity of 29,617 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (s) One (1) storage tank, identified as T-109, installed in 1989, with a maximum capacity of 20,000 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (t) Two (2) storage tanks, identified as T-120 and T-121, installed in 1989, with a maximum capacity of 15,000 gallons, each.
- (u) Four (4) storage tanks, identified as T-651 through T-654, installed in 1992, with a maximum capacity of 30,401 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (v) Four (4) storage tanks, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-901 through T-904, installed in 1989, with a maximum capacity of 640,000 gallons, each, storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).
- (w) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-905, installed in 1989, with a maximum capacity of 120,000 gallons.

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

**Facility Description [326 IAC 2-7-5(15)]: Storage Tanks (continued)**

- (x) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-908, installed in 1989, with a maximum capacity of 170,000 gallons.
- (y) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-909, installed in 1952, with a maximum capacity of 2,000,000 gallons, storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).
- (z) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-911, installed in 1989, with a maximum capacity of 120,000 gallons.
- (aa) Two (2) storage tanks, identified as T-912 and T-913, installed in 1993, with a maximum capacity of 30,000 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (bb) Three (3) storage tanks, identified as T-914 through T-916, installed in 1993, with a maximum capacity of 31,028 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (cc) Two (2) storage tanks, identified as T-953 and T-954, installed in 1993, with a maximum capacity of 29,611 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (dd) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-937, installed in 1989, with a maximum capacity of 300,000 gallons.
- (ee) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-938, installed in 1989, with a maximum capacity of 170,000 gallons.
- (ff) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-939, installed in 1989, with a maximum capacity of 640,000 gallons, storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).
- (gg) One (1) storage tank, identified as T-950, installed in 1989, with a maximum capacity of 9,024 gallons.
- (hh) One (1) storage tank, used for petroleum or condensate stored, processed, or treated prior to custody transfer, identified as T-955, installed in 1994, with a maximum capacity of 128,520 gallons.
- (ii) Two (2) storage tanks, identified as T-961 and T-962, installed in 1994, with a maximum capacity of 30,000 gallons, each, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).
- (jj) One (1) storage tank, identified as T-917, installed in 1995, with a maximum capacity of 31,208 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).

Insignificant Activities

- (d) Other activities or categories not previously identified:

One (1) storage tank, identified as T-983, installed in 2005, with a maximum capacity of 30,000 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa). [326 IAC 8-9-6(a) and (b)]

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

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

### **D.2.1 Standards of Performance for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60, Subpart Kb ]**

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The storage tanks identified as, T-101 through T-112, T-120, T-121, T-651 through T-654, T-906, T-907, T-912 through T-917, T-931 through T-936, T-941, T-942, T-944 through T-949, T-951 through T-954, T-961, T-962, T-981 and T-982 shall comply with the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR Part 60.110b, Subpart Kb) because their capacities are greater than or equal to 40 cubic meters and they were built after the July 23, 1984 applicability date. Pursuant to 326 IAC 1-1-3, 326 IAC 12, and 40 CFR Part 60.116b(a) and (b) Permittee shall maintain accessible records showing the dimension of each storage vessel and an analysis showing the capacity of the storage vessel. These requirements are incorporated by reference from the July 1, 2002 version of 40 CFR 60 Subpart Kb and are no longer federally enforceable.

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

### **D.2.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-6]**

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- (a) Pursuant to 326 IAC 8-9-6(a) and (b), the Permittee shall maintain the following records for the storage tanks, identified as T-9, T-26, T-27, T-101 through T-112, T-120, T-121, T-651 through T-654, T-906, T-907, T-909, T-912 through T-917, T-931 through T-936, T-941, T-942, T-944 through T-954, T-961, T-962, and T-981 through T-983 for the life of each vessel:
- (1) the vessel identification number
  - (2) the vessel dimensions
  - (3) the vessel capacity
- (b) Pursuant to 326 IAC 8-9-6(g), for three (3) years, the Permittee shall maintain a record of the maximum true vapor pressure of the VOL stored in the storage tank, identified as T-909. The record for each vessel shall contain the following information:
- (1) The type of VOL stored;
  - (2) The dates of the VOL storage; and
  - (3) For each day of VOL storage, the average stored temperature for VOLs stored above or below the ambient temperature or average ambient temperature for VOLs stored at ambient temperature, and the corresponding maximum true vapor pressure.
- (c) Pursuant to 326 IAC 8-9-6(h), for the storage tank, identified as T-909, which are vessels that store a liquid whose maximum true vapor pressure is normally less than 0.75 psia, the Permittee shall maintain a record and notify the IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid exceeds 0.75 psia.

## **New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]**

### **D.2.3 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]**

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The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the storage tanks, identified as T-51, T-901 through T-904, and T-939, except when otherwise specified in 40 CFR Part 60, Subpart Kb.

#### D.2.4 NSPS Kb Requirements [40 CFR Part 60, Subpart Kb]

Pursuant to CFR Part 60, Subpart Kb, the Permittee shall comply with the provisions of 40 CFR Part 60.110b for the storage tanks, identified as T-51, T-901 through T-904, and T-939, as specified as follows:

##### **§ 60.116b Monitoring of operations.**

- (a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.
- (b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.
- (c) Except as provided in paragraphs (f) and (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.
- (d) Except as provided in paragraph (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure that is normally less than 5.2 kPa or with a design capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure that is normally less than 27.6 kPa shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range.
- (e) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.
  - (1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.
  - (2) For crude oil or refined petroleum products the vapor pressure may be obtained by the following:
    - (i) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference—see §60.17), unless the Administrator specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).
    - (ii) The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa or with physical properties that preclude

determination by the recommended method is to be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa.

- (3) For other liquids, the vapor pressure:
  - (i) May be obtained from standard reference texts, or
  - (ii) Determined by ASTM D2879–83, 96, or 97 (incorporated by reference—see §60.17); or
  - (iii) Measured by an appropriate method approved by the Administrator; or
  - (iv) Calculated by an appropriate method approved by the Administrator.

### SECTION D.3

### FACILITY OPERATION CONDITIONS

#### Facility Description [326 IAC 2-7-5(15)]: Degreasing Operations

(kk) Degreasing operations consisting of the following:

- (1) One (1) cold cleaner, identified as Maintenance Degreaser, with an annual solvent usage of 1060 gallons per year. This degreaser does not use halogenated solvents.
- (2) One (1) cold cleaner, identified as Railcar Unloading Area Degreaser, with an annual solvent usage of 1060 gallons per year. This degreaser does not use halogenated solvents.
- (3) One (1) cold cleaner, identified as Tanker Trailer Unloading Bays 1&2, with an annual solvent usage of 840 gallons per year. This degreaser does not use halogenated solvents.
- (4) One (1) cold cleaner, identified as Tanker Trailer Unloading Bays 3&4, with an annual solvent usage of 840 gallons per year. This degreaser does not use halogenated solvents.

#### Insignificant Activities

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

One (1) cold cleaner degreasing unit that does not use halogenated solvents, identified as Maintenance Degreaser 2, installed before 1990, capacity: 40 gallons of cleaning solvent per year. [326 IAC 8-3-2] [326 IAC 8-3-5]

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

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

##### D.3.1 Volatile Organic Compounds (VOC) [326 IAC 8-3-5] [326 IAC 8-3-2]

(a) Pursuant to 326 IAC 8-3-5(a) (Cold Cleaner Degreaser Operation and Control), for cold cleaning operations located in Lake County and existing as of July 1, 1990, 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 which 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 that 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) (Cold Cleaner Degreaser Operation and Control), the owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever the 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.

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

**PART 70 OPERATING PERMIT  
CERTIFICATION**

Source Name: Safety-Kleen Oil Recovery Co.  
Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Part 70 Permit No.: T 089-7556-00301

<p>This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.</p> <p>Please check what document is being certified:</p> <p>9 Annual Compliance Certification Letter</p> <p>9 Test Result (specify) _____</p> <p>9 Report (specify) _____</p> <p>9 Notification (specify) _____</p> <p>9 Affidavit (specify) _____</p> <p>9 Other (specify) _____</p>
---

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

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

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Safety-Kleen Oil Recovery Co.  
Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Part 70 Permit No.: T089-7556-00301

This form consists of 2 pages

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<p>9 This is an emergency as defined in 326 IAC 2-7-1(12)</p> <p>X The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and</p> <p>X The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.</p>
--

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

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



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

Page 2 of 2

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

Form Completed by: \_\_\_\_\_

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

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

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

A certification is not required for this report.

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

**PART 70 OPERATING PERMIT  
SEMI-ANNUAL NATURAL GAS FIRED PROCESS HEATER CERTIFICATION**

Source Name: Safety-Kleen Oil Recovery Co.  
Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Part 70 Permit No.: T 089-7556-00301

9	Natural Gas Only
9	Alternate Fuel burned
	From: _____ To: _____

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

A certification by the responsible official as defined by 326 IAC 2-7-1(34) is required for this report.

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

**Part 70 Quarterly Report**

Source Name: Safety-Kleen Oil Recovery Co.  
 Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Part 70 Permit No.: T 089-7556-00301  
 Facilities: H-201 and H-301  
 Parameter: SO<sub>2</sub>\*  
 Limit: No more than a combined total of sixty (60) tons per year

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

Emission Unit(s)	SO <sub>2</sub> Emissions (tons)	SO <sub>2</sub> Emissions (tons)
	This Quarter	Year to date (January 1 - present)
H-201		
H-301		
H-401 and H-201 combined		

- 9 No deviation occurred in this quarter.
- 9 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.

\* SO<sub>2</sub> emissions shall be calculated using the emission factors in Condition D.1.1(e).

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

**Part 70 Quarterly Report**

Source Name: Safety-Kleen Oil Recovery Co.  
Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Part 70 Permit No.: T 089-7556-00301  
Facilities: H-401 and H-402  
Parameter: SO<sub>2</sub>  
Limit: No more than a combined total of forty seven and three-tenths (47.3) tons per year

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

Emission Unit(s)	SO <sub>2</sub> Emissions (tons)	SO <sub>2</sub> Emissions (tons)
	This Quarter	Year to date (January 1 - present)
H-401		
H-402		
H-401 and H-201 combined		

- 9 No deviation occurred in this quarter.
- 9 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.

\* SO<sub>2</sub> emissions shall be calculated using the emission factors in Condition D.1.1(e).

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

**Part 70 Fuel Usage Report  
 (Submit Report Quarterly)**

Source Name: Safety-Kleen Oil Recovery Co.  
 Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Part 70 Permit No.: T 089-7556-00301  
 Facilities: H-201, H-301, H-401, H-402, and H-406  
 Parameters: No. 2 Fuel Oil Equivalent or Off-Gas Sulfur Content Obtained From Fuel and Sampling Analysis as well as Fuel Usage  
 Limits: No more than a combined total of 14 pounds of SO<sub>2</sub> per hour for H-201 and H-301; no more than a combined total of 10.8 pounds per hour for H-401 and H-402; and no more than 8 pounds per hour for H-406.\*

Unit(s): \_\_\_\_\_ Fuel Type: \_\_\_\_\_ Month: \_\_\_\_\_ Year: \_\_\_\_\_

Day	Sulfur Content of Fuel (%)	Fuel Usage gallons or MMCF	Day	Sulfur Content of Fuel (%)	Fuel Usage gallons or MMCF
1			17		
2			18		
3			19		
4			20		
5			21		
6			22		
7			23		
8			24		
9			25		
10			26		
11			27		
12			28		
13			29		
14			30		
15			31		
16					

- 9 No deviation occurred in this quarter.
- 9 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.

\* SO<sub>2</sub> emissions shall be calculated using the emission factors in Condition D.1.1(e).

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

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

Source Name: Safety-Kleen Oil Recovery Co.  
Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
Part 70 Permit No.: T 089-7556-00301

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

Page 1 of 2

<p>This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. A deviation required to be reported pursuant to an applicable requirement that exists independent of the permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<p>9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p>9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	
<p>Permit Requirement (specify permit condition #)</p>	
<p>Date of Deviation:</p>	<p>Duration of Deviation:</p>
<p>Number of Deviations:</p>	
<p>Probable Cause of Deviation:</p>	
<p>Response Steps Taken:</p>	

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**

Addendum to the  
Technical Support Document for a Significant Source Modification to a Part 70 Source and a  
Significant Permit Modification to a Part 70 Operating Permit

Source Name:	Safety-Kleen Oil Recovery Co.
Source Location:	601 Riley Road, East Chicago, IN 46312-1638
County:	Lake
SIC Code:	2992
Part 70 Operation Permit No.:	T 089-7556-00301
Part 70 Operation Permit Issuance Date:	October 16, 2003
Significant Source Modification No.:	089-21726-00301
Significant Permit Modification No.:	089-21542-00301
Permit Reviewer:	Aida De Guzman

On April 28, 2006, the Office of Air Quality (OAQ) had a notice published in the Post-Tribune, Merrillville, Indiana, and the Northwest Indiana Newspaper, Munster, Indiana stating that Safety-Kleen Oil Recovery Co. applied for applications regarding modification of the existing oil-refinery source together with the modification of the Part 70 Operating Permit. The notice also stated that OAQ proposed to issue permits for this source and provided information on how the public could review the proposed permits and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not these permits should be issued as proposed.

On May 30, 2006, April 14, 2008, May 21, 2008 and May 27, 2008, the Permittee submitted the following comments to the proposed Significant Source Modification and Significant Permit Modification:

Comment 1: Condition D.1.1(e) should be deleted entirely.

Response 1: Condition D.1.1(e) has been deleted since 326 IAC 7-4.1-16 only requires a limit in pounds per hour.

D.1.1 Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4.1-16] [326 IAC 2-3]

\*\*\*

~~(e) The sulfur content of the off-gases used at Process Heater H-406 shall not exceed 0.42% sulfur.~~

(f e) To demonstrate compliance with the SO<sub>2</sub> emission limits in paragraphs (b)(3), (c)(3), and (d) of this condition, the SO<sub>2</sub> emission rates shall be calculated using the following emission factors:

Comment 2: Please add the following Condition C in Condition D.1.6(b)(2). Re-letter existing Condition (C), (D) and (E) to (D), (E), and (F):

(C) Off-gas from process vessel V-423 shall be analyzed annually for sulfur content using methods ASTM D1945/D3588 for major component gas analysis and ASTM D6228 for trace sulfides analysis.

Response 2: Condition D.1.6 has been revised by including item (C) for the compliance method of Unit H-406 SO<sub>2</sub> emissions limit in pound per hour when using off gas fuel:

D.1.6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 7-4.1-16(5)]

\*\*\*

(2) For off-gas fuel:

Except for monitoring system malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments) the Permittee shall monitor continuously (or collect data at all required intervals) any time a source of emissions is operating.

(A) Two (2) Antec P6200S Analyzers shall be used for the sulfur analysis of the off-gas fuel streams. With these analyzers, the sample is pyrolyzed with an excess of oxygen, which converts all of the components in the sample to permanent gases. Sulfur compounds are converted to sulfur dioxide (SO<sub>2</sub>). A copy of the Operation Summary for the P6200 Process Analyzer as provided by the manufacturer is attached to SPM 089-21542-00301.

(i) One (1) analyzer shall be connected to the supply line from V-410, through which the off-gas flows to the process heaters. The analyzer shall be programmed to automatically sample and analyze this supply line, at a minimum of four (4) times per hour.

(ii) One (1) analyzer shall be connected to the supply line from V-307, through which the off-gas flows to the process heaters. The analyzer shall be programmed to automatically sample and analyze this supply line, at a minimum of two (2) times per hour.

(B) The analyzer shall be connected to the digital control system (DCS) in the Operations Control Room. This DCS shall record and display the concentration in ppm. An alarm is set on the DCS to alert the operator, if concentrations are such that a response is required from the operator.

**(C) Off-gas from process vessel V-423 shall be analyzed annually for sulfur content using methods ASTM D1945/D3588 for major component gas analysis and ASTM D6228 for trace sulfides analysis.**

**Compliance with the SO<sub>2</sub> emissions limit in Condition D.1.1(d) for Unit H-406 shall be determined by using the following equation:**

(i) **Pounds SO<sub>2</sub>/hour determination from process off-gas in Vessel 423 per Condition D.1.1 (f):**

$$\text{Lbs SO}_2/\text{hour} = \text{MMCF V-423 off-gas /hr.} \times (950 (\%S) \text{ lb/ MMCF off-gas})$$

(ii) **Pounds SO<sub>2</sub>/hour determination from process off-gas Vessel 307 per Condition D.1.1 (f) combusted at Heater H-406:**

$$\text{Lbs SO}_2/\text{hour} = \text{MMCF V-307 off-gas /hr.} \times (950 (\%S) \text{ lb} / \text{MMCF off-gas})$$

- (iii) **Pounds SO<sub>2</sub>/hour determination from process off-gas Vessel 410 per Condition D.1.1 (f) combusted at Heater H-406:**

$$\text{Lbs SO}_2/\text{hour} = \text{MMCF V-410 off-gas /hr.} \times (950 (\%S) \text{ lb} / \text{MMCF off-gas})$$

- (iv) **Pounds SO<sub>2</sub>/hour determination from natural gas combustion at H-406 per Condition D.1.1 (f) combusted at Heater H-406:**

$$\text{Lbs SO}_2/\text{hour} = \text{MMCF N.G. combusted at H-406/hr} \times 0.6 \text{ lb/MMCF of N.G.}$$

- (v) **Total Lbs SO<sub>2</sub>/hour at H-406 = (i) + (ii) + (iii) + (iv)**

#### Monitoring System Malfunction

Back-up off-gas analyzer procedures are as follows:

- (CD) Any interruption in the collection of valid data that lasts more than twelve (12) hours shall be substituted with manual sampling. Manual sampling data shall begin within the first twelve (12) hours after the last sample analyzed by the Antec P6200S Analyzer. Manual sampling shall continue once every twelve (12) hour period (once per shift) until a valid analysis has been taken.
- (DE) Corrective action shall be taken in the event of an unscheduled monitoring system malfunction.
- (EF) IDEM, OAQ shall be notified prior to any scheduled monitoring system malfunction that will last longer than one (1) week.

Comment 3: Condition D.1.7 Testing Requirements, should be revised to require the following testing frequency:

#### D.1.7 Testing Requirements

Within 180 days after the installation of the off-gas components at Process Heater H-406, sulfur analysis shall be performed in accordance with Section D.1.6 (b)(2)(C) and annually thereafter in order to establish the value used with the emission factor established in Section D.1.1(f).

Response 3: Since compliance with the SO<sub>2</sub> emissions limit for Unit H-406 is demonstrated through calculations method required in D.1.6(b)(2)(C) using the sulfur content of the off gas, Condition D.1.7 has been revised as follows:

#### D.1.7 Testing Requirements

~~Within 180 days after the installation of the off-gas component at Process Heater H-406, in order to demonstrate compliance with the pounds of SO<sub>2</sub> per hour limitation in Condition D.1.1(d), the Permittee shall perform SO<sub>2</sub> testing on Process Heater H-406 when combusting the "worst case" SO<sub>2</sub>-emitting off-gas, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.~~

**Within 180 days after the installation of the off-gas components at Process Heater H-406, sulfur analysis in order to establish the value used with the emission factor established in Section D.1.1(f). This test shall be performed in accordance with Section D.1.6 (b)(2)(C) or utilizing methods as approved by the Commissioner. This test shall be repeated annually from the date of this valid compliance test. Testing shall be conducted in accordance with Section C - Performance Testing.**

Upon further review, IDEM, OAQ made the following changes to the permit:

*To minimize future amendments to the issued Part 70 Permits, the OAQ decided to delete the name and/or title of the Responsible Official (RO) in Section A.1, General Information, of the permit.*

*This section was also updated to reflect the current "source location status" and the "source status".*

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

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The Permittee owns and operates a stationary oil re-refinery source.

<del>Responsible Official:</del>	<del>Plant Manager</del>
Source Address:	601 Riley Road, East Chicago, Indiana 46312-1638
Mailing Address:	601 Riley Road, East Chicago, Indiana 46312-1638
General Source Phone Number:	(219) 391-6100
SIC Codes:	2911 and 2992
County Location:	Lake
Source Location Status:	Nonattainment for SO <sub>2</sub> , Ozone under the 8-hour and 1-hour standards, and PM <sub>2.5</sub>
Source Status:	Attainment for all other criteria pollutants Part 70 Permit Program <del>Major</del> <b>Minor</b> Source, under PSD and Emission Offset Rules; Minor Source, Section 112 of the Clean Air Act <b>Not in</b> 1 of 28 listed source categories

*Since the source is now an existing minor source under Emission Offset Rules;  
The project's SO<sub>2</sub> limit of less than 40 tons per year in Condition D.1.1 to avoid 326 IAC 2-3 is no longer necessary.*

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

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D.1.1 Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4.1-16] ~~[326 IAC 2-3]~~

---

- (a) Pursuant to 326 IAC 7-4.1-16(1), Boilers SB-801, SB-820, and SB-821, and Process Heaters H-302 and H-404 shall use natural gas only.
- (b) Pursuant to 326 IAC 7-4.1-16(2), the following requirements shall apply:
- (1) Process Heater H-201, with a capacity (rating) of twenty-seven and three-tenths (27.3) MMBtu per hour, shall use a combination of natural gas, No. 2 fuel oil equivalent, and off-gases;
  - (2) Process Heater H-301, with a capacity of twenty and zero-tenths (20.0) MMBtu per hour, shall use a combination of natural gas and No. 2 fuel oil equivalent; and

- (3) The combined sulfur dioxide emissions from these two (2) process heaters shall not exceed fourteen (14) pounds per hour and sixty (60) tons per year.
- ~~(4) Compliance with these limits is necessary to render the requirements of 326 IAC 2-3 not applicable.~~
- (c) Pursuant to 326 IAC 7-4.1-16(3), the following requirements shall apply:
- (1) Process Heater H-401, with a capacity of fifteen and three-tenths (15.3) MMBtu per hour, shall use a combination of natural gas, No. 2 fuel oil equivalent, and off-gases;
- (2) Process Heater H-402, with a capacity of eleven and seven-tenths (11.7) MMBtu per hour, shall use a combination of natural gas and No. 2 fuel oil equivalent; and
- (3) The combined sulfur dioxide emissions from these two (2) process heaters shall not exceed ten and eight-tenths (10.8) pounds per hour and forty-seven and three-tenths (47.3) tons per year.
- ~~(4) Compliance with these limits is necessary to render the requirements of 326 IAC 2-3 not applicable.~~
- (d) Pursuant to 326 IAC 7-4.1-16(4), Process Heater H-406, with a capacity of twenty (20.0) MMBtu per hour, shall use a combination of natural gas and off-gases. The sulfur dioxide emissions shall not exceed eight (8) pounds per hour. ~~Compliance with this limit is necessary to render the requirements of 326 IAC 2-3 not applicable.~~
- ~~(e) The sulfur content of the off-gases used at Process Heater H-406 shall not exceed 0.42% sulfur.~~
- (f e) To demonstrate compliance with the SO<sub>2</sub> emission limits in paragraphs (b)(3), (c)(3), and (d) of this condition, the SO<sub>2</sub> emission rates shall be calculated using the following emission factors:

Fuel Type	Emission Factor for Process Heaters
Natural Gas	0.6 pounds per million cubic feet of natural gas
Off-gases	950 pounds per million cubic feet of off-gas times the sulfur content (%)
No. 2 Fuel Oil Equivalent	142 pounds per kilo-gallon of No. 2 fuel oil equivalent times the sulfur content (%)

~~These limits in conjunction with the requirements of 326 IAC 7-4.1-16 render the requirements of 326 IAC 2-3 not applicable.~~

*IDEM, OAQ has clarified Condition D.1.9 as follows:*

**D.1.9 Record Keeping Requirements**

---

- (a) To document compliance with Condition D.1.1, 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 SO<sub>2</sub> emission limits established in Condition D.1.1. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
- (1) Calendar dates covered in the compliance determination period;
  - (2) Actual fuel (**natural gas, No. 2 fuel oil and off-gas**) usage since last compliance determination period and equivalent sulfur dioxide emissions;
  - (3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used.

**Technical Support Document**

Comment 1: On Page 12 of 43, please delete the last sentence of the following statement:

Note: Since the limitation of eight (8) pounds of SO<sub>2</sub> per hour (which is equivalent to potential SO<sub>2</sub> emissions of 35.0 tons per year) applies to Process Heater H-406, compliance with that limit will ensure that SO<sub>2</sub> emissions from Process Heater H-406 will not exceed the Emission Offset significant level of forty (40) tons of SO<sub>2</sub> per year that is specified in 326 IAC 2-3-1(qq). In order to demonstrate compliance with this pound per hour limitation, the sulfur content of the off-gas used at Process Heater H-406 shall be limited to no more than 0.42% sulfur.

Response 1: IDEM, OAQ prefers not to change the TSD in order to preserve the original information pertaining to the issued permits. This TSD Addendum is part of the TSD and it serves to address the changes made in the permits as a result of the submitted comments. IDEM, OAQ has documented in this TSD Addendum the changes made to the original TSD.

IDEM, OAQ noted in this TSD Addendum the deletion of the last sentence in the following statement since the permit already requires a pound per hour limit.

Note: Since the limitation of eight (8) pounds of SO<sub>2</sub> per hour (which is equivalent to potential SO<sub>2</sub> emissions of 35.0 tons per year) applies to Process Heater H-406, compliance with that limit will ensure that SO<sub>2</sub> emissions from Process Heater H-406 will not exceed the Emission Offset significant level of forty (40) tons of SO<sub>2</sub> per year that is specified in 326 IAC 2-3-1(qq). ~~In order to demonstrate compliance with this pound per hour limitation, the sulfur content of the off-gas used at Process Heater H-406 shall be limited to no more than 0.42% sulfur.~~

Comment 2: Page 9 of 43 in the "Potential to Emit of Modification After Issuance" table, in the column titled "Pollutant", the box currently written as "Natural Gas Equivalent Storage Tank T-983" should be corrected to read "Natural Gas".

Response 2: IDEM, OAQ has noted in this TSD Addendum the correction made to the following table:

**Potential to Emit of Modification After Issuance**

<b>Pollutant</b>	<b>PM (tons/yr)</b>	<b>PM<sub>10</sub> (tons/yr)</b>	<b>SO<sub>2</sub> (tons/yr)</b>	<b>VOC (tons/yr)</b>	<b>CO (tons/yr)</b>	<b>NO<sub>x</sub> (tons/yr)</b>
Process Heater H-406 (off-gas combustion only)	0.263	0.762	Less than 35.04	0.245	3.07	12.3
Natural Gas Equivalent Storage Tank T-983	-	-	-	0.477	-	-
Total Emissions From Modification	0.263	0.762	Less than 35.04	0.722	3.07	12.3
PSD or Emission Offset Significant Threshold Level	<del>25</del> 250	<del>45</del> 250	<del>40</del> 250	<del>40</del> 250	<del>100</del> 250	<del>40</del> 250

IDEM, OAQ, noted in this TSD Addendum the following updates to the original TSD:

*The county attainment status section on Page 7 of 43 of the TSD has been revised to reflect the change in 326 IAC 1-4-46. The change is documented as follows:*

<b>Pollutant</b>	<b>Status</b>
PM <sub>2.5</sub>	Nonattainment
PM <sub>10</sub>	Attainment
SO <sub>2</sub>	Nonattainment
NO <sub>2</sub>	Attainment
1-Hour Ozone	Severe Nonattainment
8-Hour Ozone	Moderate Nonattainment
CO	Attainment
Lead	Attainment

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

**Note:** On October 25, 2006, the Indiana Air Pollution Control Board finalized a rule revision to 326 IAC 1-4-1 revoking the one-hour ozone standard in Indiana.

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.

**(1) One-hour ozone standard:**

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

- (4) On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NO<sub>x</sub> threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Lake County has been designated as nonattainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability section of

this document.

**(2) 8-hour ozone standard**

~~(2)~~—VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3 requirements. See the State Rule Applicability section of this document.

(b) U.S. EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Lake County as nonattainment for PM<sub>2.5</sub>. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions pursuant to the Emission Offset, 326 IAC 2-3 requirements. See the State Rule Applicability section of this document.

(c) Lake County has been classified as attainment or unclassifiable in Indiana for PM<sub>10</sub>, NO<sub>2</sub>, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability section of this document.

~~(d)~~—Lake County has been classified as nonattainment in Indiana for SO<sub>2</sub>. Therefore, SO<sub>2</sub> emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability section of this document.

**(d) Fugitive Emissions**

**Since this type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.**

*The source's status has been revised since Safety-Kleen operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3.*

**Source Status**

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

<b>Pollutant</b>	<b>Emissions (tons/year)</b>
PM	6.05
PM <sub>10</sub>	13.01
SO <sub>2</sub>	107.67
VOC	17.82
CO	104.19
NO <sub>x</sub>	162.85

Single HAP	Less Than 10
Total HAPs	Less Than 25

- (a) ~~This existing source is a major stationary source, under PSD (326 IAC 2-2), because an attainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more, and it is one of the twenty-eight (28) listed source categories.~~

**This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant (PM, PM10, SO<sub>2</sub>, NO<sub>x</sub> and CO) is emitted at a rate of 250 tons per year or more, and it is not in one of the twenty-eight (28) listed source categories as specified in 326 IAC 2-2-1(gg)(1).**

- (b) ~~This existing source is a major stationary source, under Emission Offset (326 IAC 2-3), because a nonattainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more.~~

**This existing source is not a major stationary source, under Emission Offset (326 IAC 2-3), for the 8-hour ozone standard because VOC a nonattainment pollutant is not emitted at one hundred (100) tons per year or more.**

- (c) These emissions are based upon the table on Page 9 of 21 in the TSD to T 089-7556-00301, issued on October 16, 2003, not including the emissions from Boiler SB-823 (that emission unit was never constructed).

**Potential to Emit of Modification After Issuance**

Pollutant	PM (tons/yr)	PM <sub>10</sub> (tons/yr)	SO <sub>2</sub> (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NO <sub>x</sub> (tons/yr)
Process Heater H-406 (off-gas combustion only)	0.263	0.762	Less than 35.04	0.245	3.07	12.3
Natural Gas Equivalent Storage Tank T-983	-	-	-	0.477	-	-
Total Emissions From Modification	0.263	0.762	Less than 35.04	0.722	3.07	12.3
PSD or Emission Offset Significant Threshold Level	25 <b>250</b>	45 <b>250</b>	40 <b>250</b>	40 <b>250</b>	400 <b>250</b>	40 <b>250</b>

- (a) ~~This source modification to an existing major stationary source is not major because the limited SO<sub>2</sub> potential emissions increase at Process Heater H 406 is less than the Emission Offset significant level of forty (40) tons per year. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.~~

**This source modification to an existing minor stationary source is not major because the limited SO<sub>2</sub> potential emissions increase (based on 326 IAC 7-4.1-16 SO<sub>2</sub> limit) and emissions increase from all the other attainment pollutants are less than the PSD threshold level of 250 tons per year or more. Therefore, PSD (326 IAC 2-2) requirements do not apply.**

**(b) One-hour Ozone Standard:**

- (1) Lake county was previously designated as a severe non-attainment area prior to revocation of the one-hour ozone standard. Pursuant to the anti-backsliding provisions of the Clean Air Act any new or existing source must be subject to the major source applicability cut-offs and offset ratios under the area's previous one-hour standard designation. Therefore, the proposed modification will be reviewed under this one-hour ozone standard.**

**This modification to an existing Emission Offset minor stationary source is not major because the VOC emissions increase is less than the Emission Offset threshold level of 25 tons per year. Therefore, it is not subject to nonattainment major NSR review (326 IAC 2-1.1-5).**

**(c) Eight-hour Ozone Standard:**

- (1) This modification to an existing Emission Offset minor stationary source is not major because the VOC emissions increase is less than the Emission Offset threshold level of 100 tons per year. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.**

## Indiana Department of Environmental Management Office of Air Quality

### Technical Support Document (TSD) for a Part 70 Significant Source Modification and Significant Permit Modification

#### Source Background and Description

<b>Source Name:</b>	<b>Safety-Kleen Oil Recovery Co.</b>
<b>Source Location:</b>	<b>601 Riley Road, East Chicago, Indiana 46312-1638</b>
<b>County:</b>	<b>Lake</b>
<b>SIC Code:</b>	<b>2992</b>
<b>Operation Permit No.:</b>	<b>T 089-7556-00301</b>
<b>Operation Permit Issuance Date:</b>	<b>October 16, 2003</b>
<b>Significant Source Modification No.:</b>	<b>SSM 089-21726-00301</b>
<b>Significant Permit Modification No.:</b>	<b>SPM 089-21542-00301</b>
<b>Permit Reviewer:</b>	<b>Michael S. Schaffer</b>

The Office of Air Quality (OAQ) has reviewed a modification application from Safety-Kleen Oil Recovery Co. relating to the operation of the following emission units:

The source consists of the following permitted emission units and pollution control devices (deleted language appears as ~~strikeouts~~, new language appears in **bold**):

- (a) One (1) natural gas-fired boiler, identified as SB-801, installed in 1981, with a maximum capacity of 36.0 MMBtu/hr, and exhausting through stack SB-801.
- (b) One (1) natural gas-fired boiler, identified as SB-820, installed in 1991, with a maximum capacity of 44.5 MMBtu/hr, and exhausting through stack SB-820.
- (c) One (1) natural gas-fired boiler, identified as SB-821, installed in 1990, with a maximum capacity of 42.5 MMBtu/hr, and exhausting through stack SB-821.
- ~~(d) One (1) natural gas-fired boiler, identified as SB-823, to be constructed, with a maximum capacity of 34.0 MMBtu/hr, and exhausting through stack SB-823.~~
- ~~(e)~~ **(d)** One (1) natural gas/distillate fuel oil No. 2 off-gas-fired process heater, **fueled by a combination of natural gas, No. 2 fuel oil equivalent, and off-gases**, identified as H-201, installed in 1990, with a maximum capacity of 27.3 MMBtu/hr, and exhausting through stack H-201.
- ~~(f)~~ **(e)** One (1) natural gas/distillate fuel oil No. 2 fired indirect heating unit **process heater, fueled by a combination of natural gas and No. 2 fuel oil equivalent**, identified as H-301, installed in 1989, with a maximum capacity of 20.0 MMBtu/hr, and exhausting through stack H-301.
- ~~(g)~~ **(f)** One (1) natural gas-fired process heater, identified as H-302, installed in 1992, with a maximum capacity of 15.1 MMBtu/hr, and exhausting through stack H-302.
- ~~(h)~~ **(g)** One (1) natural gas/distillate fuel oil No. 2 off-gas-fired process heater, **fueled by a combination of natural gas, No. 2 fuel oil equivalent, and off-gases**, identified as H-401, installed in 1990, with a maximum capacity of 15.3 MMBtu/hr, and exhausting through stack H-401.

- ~~(i)~~ (h) One (1) ~~natural gas/distillate fuel oil No. 2 off-gas-fired~~ process heater, **fueled by a combination of natural gas and No. 2 fuel oil equivalent**, identified as H-402, installed in 1990, with a maximum capacity of 11.7 MMBtu/hr, and exhausting through stack H-402.
- ~~(j)~~ (i) One (1) natural gas-fired process heater, identified as H-404, installed in 1994, with a maximum capacity of 9.0 MMBtu/hr, and exhausting through stack H-404.
- ~~(k)~~ (j) One fractionation tower system installed in 2002, consisting of:
  - (1) One (1) ~~natural gas-fired~~ process heater, **fueled by a combination of natural gas and off-gases**, identified as H-406, installed in 2002, with a maximum capacity of 20.0 MMBtu/hr, equipped with a low NO<sub>x</sub> burner, and exhausting through stack H-406.
  - (2) One (1) vacuum tower.
  - (3) Six (6) air coolers.
  - (4) Two (2) air strippers.
  - (5) Two (2) vacuum pumps and twenty (20) miscellaneous pumps.
- ~~(l)~~ (k) One (1) storage tank, identified as T-9, installed in 1968, with a maximum capacity of 20,000 gallons.
- ~~(m)~~ (l) Two (2) storage tanks, identified as T-26 and T-27, installed in 1968, with a maximum capacity of 19,110 gallons, each.
- ~~(n)~~ (m) One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-51, installed in 1993, with a maximum capacity of 4,000,000 gallons, **storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa)**.
- ~~(o)~~ (n) One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-52, installed in 1966, with a maximum capacity of 126,000 gallons.
- ~~(p)~~ (o) Eleven (11) storage tanks, identified as T-101 through T-108, and T-110 through T-112, installed in 1989, with a maximum capacity of 30,000 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(q)~~ (p) Two (2) storage tanks, identified as T-906 and T-907, installed in 1989, with a maximum capacity of 30,598 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(r)~~ (q) Fourteen (14) storage tanks, identified as T-931, T-932, T-935, T-936, T-941, T-942, T-944, T-945, T-948, T-949, T-951, T-952, T-981 and T-982, installed in 1989, with a maximum capacity of 29,611 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(s)~~ (r) Four (4) storage tanks, identified as T-933, T-934, T-946 and T-947, installed in 1989, with a maximum capacity of 29,617 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(t)~~ (s) One (1) storage tank, identified as T-109, installed in 1989, with a maximum capacity of

20,000 gallons, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**

- ~~(t)~~ **(t)** Two (2) storage tanks, identified as T-120 and T-121, installed in 1989, with a maximum capacity of 15,000 gallons, each.
- ~~(u)~~ **(u)** Four (4) storage tanks, identified as T-651 through T-654, installed in 1992, with a maximum capacity of 30,401 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- ~~(v)~~ **(v)** Four (4) storage tanks, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-901 through T-904, installed in 1989, with a maximum capacity of 640,000 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).**
- ~~(w)~~ **(w)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-905, installed in 1989, with a maximum capacity of 120,000 gallons.
- ~~(x)~~ **(x)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-908, installed in 1989, with a maximum capacity of 170,000 gallons.
- ~~(y)~~ **(y)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-909, installed in 1952, with a maximum capacity of 2,000,000 gallons, **storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).**
- ~~(za)~~ **(z)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-911, installed in 1989, with a maximum capacity of 120,000 gallons.
- ~~(bb)~~ **(aa)** Two (2) storage tanks, identified as T-912 and T-913, installed in 1993, with a maximum capacity of 30,000 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- ~~(cc)~~ **(bb)** Three (3) storage tanks, identified as T-914 through T-916, installed in 1993, with a maximum capacity of 31,028 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- ~~(dd)~~ **(cc)** Two (2) storage tanks, identified as T-953 and T-954, installed in 1993, with a maximum capacity of 29,611 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- ~~(ee)~~ **(dd)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-937, installed in 1989, with a maximum capacity of 300,000 gallons.
- ~~(ff)~~ **(ee)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-938, installed in 1989, with a maximum capacity of 170,000 gallons.
- ~~(gg)~~ **(ff)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-939, installed in 1989, with a maximum capacity of

640,000 gallons, **storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).**

~~(hh)~~ **(gg)** One (1) storage tank, identified as T-950, installed in 1989, with a maximum capacity of 9,024 gallons.

~~(ii)~~ **(hh)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-955, installed in 1994, with a maximum capacity of 128,520 gallons.

~~(iii)~~ **(ii)** Two (2) storage tanks, identified as T-961 and T-962, installed in 1994, with a maximum capacity of 30,000 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**

~~(kk)~~ **(jj)** One (1) storage tank, identified as T-917, installed in 1995, with a maximum capacity of 31,208 gallons, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**

~~(ll)~~ **(kk)** Degreasing operations consisting of the following:

(1) **One (1) cold cleaner, identified as Maintenance Degreaser—uses Premium Solvent**, with an annual **solvent** usage of 1060 gallons per year. **This degreaser does not use halogenated solvents.**

(2) **One (1) cold cleaner, identified as Railcar Unloading Area Degreaser —uses Premium Solvent**, with an annual **solvent** usage of 1060 gallons per year. **This degreaser does not use halogenated solvents.**

(3) **One (1) cold cleaner, identified as Tanker Trailer Unloading Bays 1&2 —uses HTS Distillate**, with an annual **solvent** usage of 840 gallons per year. **This degreaser does not use halogenated solvents.**

(4) Tanker Trailer Unloading Bays 3&4 ~~—uses HTS Distillate~~, with an annual **solvent** usage of 840 gallons per year. **This degreaser does not use halogenated solvents.**

The following specifically regulated insignificant activity will be added as a result of this modification (deleted language appears as ~~strikeouts~~, new language appears in **bold**):

(a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. ~~[326 IAC 8-3-2] [326 IAC 8-3-5]~~

**One (1) cold cleaner degreasing unit that does not use halogenated solvents, identified as Maintenance Degreaser 2, installed before 1990, capacity: 40 gallons of cleaning solvent per year. [326 IAC 8-3-2] [326 IAC 8-3-5]**

(b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4] [326 IAC 6-1-11.1] Covered in Conditions C.5 and C.6.

(c) Fugitive dust from vehicle traffic. [326 IAC 6-4] [326 IAC 6-1-11.1] Covered in Conditions C.5 and C.6.

**(d) Other activities or categories not previously identified:**

**One (1) storage tank, identified as T-983, installed in 2005, with a maximum capacity of**

**30,000 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa). [326 IAC 8-9-6(a) and (b)]**

## History

On July 29, 2005, Safety-Kleen Oil Recovery Co. submitted an application to the OAQ to add specific requirements from 326 IAC 7-4.1-16 (which became effective on July 1, 2005) to their Part 70 Operating Permit. Safety-Kleen Oil Recovery Co. was issued a Part 70 permit on October 16, 2003.

Within thirty (30) days of July 1, 2005, Safety-Kleen Oil Recovery Co. was required by 326 IAC 7-4.1-16(5) to select one (1) of three (3) compliance options presented in that rule. In addition, the source was required to submit a fuel sampling and analysis protocol for the compliance option selected for IDEM, OAQ approval. The July 29, 2005 Part 70 Significant Permit Modification application was submitted specifically to satisfy the requirements of 326 IAC 7-4.1-16(5).

In addition to the Part 70 Significant Permit Modification request, this source needs a Part 70 Significant Source Modification to permit the use of "worst case" SO<sub>2</sub> emitting off-gas at Process Heater H-406. Since Process Heater H-406 was only permitted to combust natural gas in T 089-7556-00301, issued on October 16, 2003, the use of the "worst case" SO<sub>2</sub> emitting off-gas requires a construction approval for that heater.

Pursuant to 326 IAC 7-4.1-16(4), the sulfur dioxide emissions from Process Heater H-406 shall not exceed eight (8) pounds per hour (which is equivalent to a limited potential to emit of 35.0 tons of SO<sub>2</sub> per year). Therefore, pursuant to 326 IAC 2-7-10.5(f)(4)(B), the construction of the off-gas component at Process Heater H-406 must be performed as a Part 70 Significant Source Modification since the limited potential SO<sub>2</sub> emissions from Process Heater H-406 are greater than twenty-five (25) tons per year.

Note that since the limited potential to emit SO<sub>2</sub> from the use of off-gas at Process Heater H-406 is less than forty (40) tons per year, the requirements of 326 IAC 2-3 do not apply to this modification.

## Enforcement Issue

IDEM is aware that the source has used off-gas at Process Heater H-406 prior to receipt of the proper permit. IDEM is reviewing this matter and will take appropriate action. The Part 70 Significant Source Modification and Permit Modification shall satisfy the requirements of the construction and operation permit rules.

## Recommendation

The staff recommends to the Commissioner that the Part 70 Significant Source Modification and Significant Permit Modification be approved. This recommendation is based on the following facts and conditions:

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

An application for the purposes of this review was received on July 29, 2005. Additional information was received on November 18, December 22, 2005, and January 6, 2006.

### Emission Calculations

See Pages 1 and 2 of 2 in Appendix A of this document for detailed emissions calculations regarding Process Heater H-406 when the unit is fueled by the “worst case” SO<sub>2</sub> emitting off-gas.

Note: Based on the information provided by Tanks v. 4.0 and the information provided by the source, the potential VOC emissions from the storage tank, identified as T-983, is equal to 0.477 tons of VOC per year.

### Potential To Emit of Modification

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

This table reflects the PTE before controls for this modification. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	0.263
PM <sub>10</sub>	0.762
SO <sub>2</sub>	35.0
VOC*	0.722
CO	3.07
NO <sub>x</sub>	12.3

\* Includes potential emissions from storage tank T-983

HAPs	Potential To Emit (tons/year)
Acetaldehyde	0.001
Benzene	0.037
Chromium	0.00003
Chromium (VI)	0.00001
Formaldehyde	0.006
Manganese	0.0005
Mercury	0.00004
Naphthalene	0.0002
Nickel	0.0001
Phenol	0.0003
Toluene	0.062
TOTAL	0.106

### Justification for Modifications

The Part 70 Operating permit is being modified through a Part 70 Significant Source Modification. This modification is being performed pursuant to 326 IAC 2-7-10.5(f)(4)(B), since the limited SO<sub>2</sub> emissions from the proposed off-gas component to Process Heater H-406 are greater than twenty-five (25) tons per year.

The Part 70 Operating permit is also being modified through a Part 70 Significant Permit Modification. This modification is being performed pursuant to 326 IAC 2-7-12(d) since this modification does not qualify as a minor permit modification or an administrative amendment.

The establishment of the permit terms and compliance options in accordance with 326 IAC 7-4.1-16 requires significant changes to the existing Emission Limitations and Standards, Compliance Determination Requirements, Compliance Monitoring Requirements, and Record Keeping and Reporting Requirements that are currently in Section D.1 of the Part 70 Operating Permit.

### County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM <sub>2.5</sub>	Nonattainment
PM <sub>10</sub>	Attainment
SO <sub>2</sub>	Nonattainment
NO <sub>2</sub>	Attainment
1-Hour Ozone	Severe Nonattainment
8-Hour Ozone	Moderate Nonattainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
- (1) On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NO<sub>x</sub> threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Lake County has been designated as nonattainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability section of this document.
- (2) VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3 requirements. See the State Rule Applicability section of this document.

- (b) U.S. EPA in Federal Register Notice 70 FR 943 dated January 5, 2005 has designated Lake County as nonattainment for PM<sub>2.5</sub>. On March 7, 2005 the Indiana Attorney General's Office on behalf of IDEM filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions pursuant to the Emission Offset, 326 IAC 2-3 requirements. See the State Rule Applicability section of this document.
- (c) Lake County has been classified as attainment or unclassifiable in Indiana for PM<sub>10</sub>, NO<sub>2</sub>, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability section of this document.
- (d) Lake County has been classified as nonattainment in Indiana for SO<sub>2</sub>. Therefore, SO<sub>2</sub> emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability section of this document.

### Source Status

Existing Source PSD or Emission Offset Definition (emissions after controls, based upon 8,760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	6.05
PM <sub>10</sub>	13.01
SO <sub>2</sub>	107.67
VOC	17.82
CO	104.19
NO <sub>x</sub>	162.85
Single HAP	Less Than 10
Total HAPs	Less Than 25

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because an attainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more, and it is one of the twenty-eight (28) listed source categories.
- (b) This existing source is a major stationary source, under Emission Offset (326 IAC 2-3), because a nonattainment regulated pollutant is emitted at a rate of one hundred (100) tons per year or more.
- (c) These emissions are based upon the table on Page 9 of 21 in the TSD to T 089-7556-00301, issued on October 16, 2003, not including the emissions from Boiler SB-823 (that emission unit was never constructed).

**Potential to Emit of Modification After Issuance**

Pollutant	PM (tons/yr)	PM <sub>10</sub> (tons/yr)	SO <sub>2</sub> (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NO <sub>x</sub> (tons/yr)
Process Heater H-406 (off-gas combustion only)	0.263	0.762	Less than 35.04	0.245	3.07	12.3
Natural Gas Equivalent Storage Tank T-983	-	-	-	0.477	-	-
Total Emissions From Modification	0.263	0.762	Less than 35.04	0.722	3.07	12.3
PSD or Emission Offset Significant Level	25	15	40	40	100	40

This source modification to an existing major stationary source is not major because the limited SO<sub>2</sub> potential emissions increase at Process Heater H-406 is less than the Emission Offset significant level of forty (40) tons per year. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

**Potential to Emit of Entire Source After Issuance**

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units at this source as a result of this significant permit modification.

Pollutant	PM (tons/yr)	PM <sub>10</sub> (tons/yr)	SO <sub>2</sub> (tons/yr)	VOC (tons/yr)	CO (tons/yr)	NO <sub>x</sub> (tons/yr)
Boiler SB-801	0.49	1.20	0.09	0.87	13.25	15.77
Boiler SB-820	0.30	1.48	0.12	1.07	16.37	19.49
Boiler SB-821	0.33	1.41	0.11	1.02	15.64	18.62
Process Heater H-201	2.13	2.81	60.0	0.97	16.50	37.80
Process Heater H-301	0.38	1.92		0.69	10.49	21.27
Process Heater H-302	0.13	0.50	0.04	0.36	5.56	6.61
Process Heater H-401	1.22	1.60	47.3	0.55	9.58	22.53
Process Heater H-402	0.83	1.12		0.40	6.13	12.44
Process Heater H-404	0.07	0.30	0.02	0.22	3.31	3.94
Process Heater H-406	0.26	0.76	35.0	0.48	7.36	12.30
Degreasers	-	-	-	11.19	-	-
Tank T-983	-	-	-	0.48	-	-
Total Emissions	6.14	13.10	142.68	18.3	104.19	170.77

## Federal Rule Applicability

- (a) Pursuant to the 68 FR 59332, October 15, 2003 version of 40 CFR 60.110b, which was incorporated by reference into 326 IAC 1-1-3 on October 14, 2005, NSPS Subpart Kb does not apply to storage vessels with a capacity less than 75 cubic meters (19,812.9 gallons), storage vessels with a capacity greater than or equal to 75 cubic meters (19,812.9 gallons) but less than 151 cubic meters (39,889.98 gallons) that store liquids with a maximum true vapor pressure that is less than 15.0 kPa (2.176 psia), and storage vessels with a capacity greater than 151 cubic meters (39,889.98 gallons) that store liquids with a maximum true vapor pressure that is less than 3.5 kPa (0.508 psia).

In addition this subpart does not apply to storage vessels that have a capacity of less than or equal to 1,589.874 cubic meters (420,000 gallons) used for petroleum or condensate stored, processed, or treated prior to custody transfer.

The applicability of NSPS Subpart Kb to the storage tanks at this source that were installed after July 23, 1984, has been reanalyzed as follows:

- (1) The existing storage tanks, identified as T-120, T-121, and T-950 each have a storage capacity that is less than 75 cubic meters (19,812.9 gallons). Therefore, as part of this modification, these tanks are not subject to the record keeping requirements of 40 CFR 60.116b in the October 15, 2003 version of NSPS Subpart Kb.

Since U.S. EPA has not approved the revisions to 326 IAC 1-1-3, 40 CFR 60.116b will still be required in the Part 70 Operating Permit for Tanks T-120 and T-121 until U.S. EPA has approved the change. The requirements of 40 CFR 60.116b for T-120 and T-121 are no longer federally enforceable.

Note: Since Tank T-950 has a storage capacity that is less than 40 cubic meters (10,566.88 gallons), the record keeping requirements of 40 CFR 60.116b are not applicable to that storage tank.

- (2) The following existing storage tanks each have a capacity that is greater than or equal to 75 cubic meters (19,812.9 gallons) but less than 151 cubic meters (39,889.98 gallons) and store liquids with a maximum true vapor pressure of less than 15.0 kPa (2.176 psia):

T-101 through T-112, T-651 through T-654, T-906, T-907, T-912 through T-917, T-931 through T-936, T-941, T-942, T-944 through T-949, T-951 through T-954, T-961, T-962, and T-981 through T-983.

Therefore, as part of this modification, these tanks are not subject to the record keeping requirements of 40 CFR 60.116b in the October 15, 2003 version of NSPS Subpart Kb.

Since U.S. EPA has not approved the revisions to 326 IAC 1-1-3, 40 CFR 60.116b will still be required in the Part 70 Operating Permit for these tanks until U.S. EPA has approved the change. The requirements of 40 CFR 60.116b for T-101 through T-112, T-651 through T-654, T-906, T-907, T-912 through T-917, T-931 through T-936, T-941, T-942, T-944 through T-949, T-951 through T-954, T-961, T-962, and T-981 through T-983 are no longer federally enforceable.

- (3) The following existing storage tanks are used for petroleum or condensate stored, processed, or treated prior to custody transfer and have a design capacity that is less

than 1,589.874 cubic meters (420,000 gallons):

T-905, T-908, T-911, T-937, T-938, and T-955.

Therefore, as part of this modification, these tanks are not subject to the record keeping requirements of 40 CFR 60.116b in the October 15, 2003 version of NSPS Subpart Kb.

- (4) The following existing storage tanks, installed after July 23, 1984, used for petroleum or condensate stored, processed, or treated prior to custody transfer have a design capacity that is greater than 151 cubic meters (39,889.98 gallons), store liquids with a maximum true vapor pressure of greater than 3.5 kPa (0.508 psia), but less than 5.2 kPa (0.754 psia), and have a design capacity that is greater than 1,589.874 cubic meters (420,000 gallons):

T-51, T-901 through T-904, and T-939.

Therefore, these tanks are subject to the requirements of 40 CFR 60, Subpart Kb.

Nonapplicable portions of the NSPS will not be included in the permit. The tanks identified as T-51, T-901 through T-904, and T-939, each installed after July 23, 1984, are subject to the following portions of Subpart Kb:

40 CFR 60.116b(a) through (e),

The provisions of 40 CFR 60 Subpart A – General Provisions, which are incorporated as 326 IAC 12-1-1, apply T-51, T-901 through T-904, and T-939 except when otherwise specified in 40 CFR 60, Subpart Kb.

- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to the proposed modification.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP)(326 IAC 14, 20 and 40 CFR Part 61, 63) applicable to the proposed modification.

### **State Rule Applicability - Individual Facilities**

326 IAC 2-3 (Emission Offset); 326 IAC 7-4.1-16 (Safety-Kleen Oil Recovery Company Sulfur Dioxide Emission Limitations)

Effective July 1, 2005, Safety-Kleen Oil Recovery Company, Plt ID 089-00301, shall comply with the sulfur dioxide emission limits in pounds per hour and other requirements as follows:

- (a) Pursuant to 326 IAC 7-4.1-16(1), Boilers SB-801, SB-820, SB-821, and SB-823, Process Heaters H-302 and H-404 shall use natural gas only.
- (b) Pursuant to 326 IAC 7-4.1-16(2), the following requirements shall apply:
- (1) Process Heater H-201, with a capacity of twenty-seven and three-tenths (27.3) MMBtu per hour, shall use a combination of natural gas, No. 2 fuel oil equivalent, and off-gases;
- (2) Process Heater H-301, with a capacity of twenty and zero-tenths (20.0) MMBtu per hour, shall use a combination of natural gas and No. 2 fuel oil equivalent; and

- (3) The combined sulfur dioxide emissions from these two (2) process heaters shall not exceed fourteen (14) pounds per hour and sixty (60) tons per year.

Compliance with these requirements shall render the requirements of 326 IAC 2-3 (Emission Offset) not applicable to H-201 and H-301.

- (c) Pursuant to 326 IAC 7-4.1-16(3), the following requirements shall apply:

- (1) Process Heater H-401, with a capacity of fifteen and three-tenths (15.3) MMBtu per hour, shall use a combination of natural gas, No. 2 fuel oil equivalent, and off-gases;
- (2) Process Heater H-402, with a capacity of eleven and seven-tenths (11.7) MMBtu per hour, shall use a combination of natural gas and No. 2 fuel oil equivalent; and
- (3) The combined sulfur dioxide emissions from these two (2) process heaters shall not exceed ten and eight-tenths (10.8) pounds per hour and forty-seven and three-tenths (47.3) tons per year.

Compliance with these requirements shall render the requirements of 326 IAC 2-3 (Emission Offset) not applicable to Process Heaters H-401 and H-402.

- (d) Pursuant to 326 IAC 7-4.1-16(4), Process Heater H-406, with a capacity of twenty (20.0) MMBtu per hour, shall use a combination of natural gas and off-gases. The sulfur dioxide emissions shall not exceed eight (8) pounds per hour.

Note: Since the limitation of eight (8) pounds of SO<sub>2</sub> per hour (which is equivalent to potential SO<sub>2</sub> emissions of 35.0 tons per year) applies to Process Heater H-406, compliance with that limit will ensure that SO<sub>2</sub> emissions from Process Heater H-406 will not exceed the Emission Offset significant level of forty (40) tons of SO<sub>2</sub> per year that is specified in 326 IAC 2-3-1(qq). In order to demonstrate compliance with this pound per hour limitation, the sulfur content of the off-gas used at Process Heater H-406 shall be limited to no more than 0.42% sulfur.

Therefore, this modification, which will allow this source to combust off-gas at Process Heater H-406, renders the requirements of 326 IAC 2-3 not applicable to this major source.

- (e) Pursuant to 326 IAC 7-4.1-16(5), within thirty (30) days of July 1, 2005 (the effective date of 326 IAC 7-4.1-16), Safety-Kleen Oil Recovery Co. was required to submit the following for IDEM, OAQ approval:

- (1) A letter to IDEM, OAQ selecting one (1) of three (3) compliance options listed in paragraphs (A) through (C) of 326 IAC 7-4.1-16(5); and
- (2) A fuel sampling and analysis protocol for the selected compliance option.

The intent of this source's July 29, 2005 permit modification application was primarily to satisfy the requirements 326 IAC 7-4.1-16(5). Based on the content of the July 29, 2005 application, IDEM, OAQ has determined that the above mentioned requirements have been satisfied.

- (3) In accordance with 326 IAC 7-4.1-16(5)(A), Safety-Kleen Oil Recovery Co. has selected the following compliance option:

Safety-Kleen Oil Recovery Co. shall determine compliance through monitoring as follows:

- (A) Monitor sulfur content in the off-gas streams for Process Heaters H-201, H-401, and H-406.
  - (B) Prior to sampling the fuel in the fuel tank, mix the contents of the tank to ensure consistent composition of the fuel throughout the tank.
  - (C) Perform fuel sampling and analysis for the sulfur content of the fuel in each fuel tank:
    - (i) Prior to the first time the fuel is burned; and
    - (ii) Subsequently, prior to burning the fuel whenever additional fuel has been added to the tank since the last sampling event.
  - (D) Maintain records sufficient to demonstrate compliance for at least three (3) years.
  - (E) Submit an excess emissions report to the department within thirty (30) days after the end of each calendar quarter.
- (4) The fuel sampling and analysis protocol that Safety-Kleen Oil Recovery Co. submitted on July 29, 2005, for the selected compliance option in paragraph (e)(3) is as follows:

- (A) For liquid heater fuel:

Sampling

Subsequent to the addition and mixing of liquid heater fuel into a tank, a sample shall be obtained in the following manner:

- (i) The operator shall drain off approximately one (1) gallon from the sample tap before taking the sample;
- (ii) The sample shall be labeled (with the tank number, product type, date, time and initials of the sampler); and
- (iii) The sample shall be submitted to the on-site laboratory for analysis

Analysis

- (iv) The laboratory personnel will enter the sample into the sample log book;
- (v) The sample will be analyzed using an ELTRA CS-500 Double Dual Range Carbon/Sulfur Determinator. This Sulfur Determinator utilizes method ASTM D1552-03 to determine sulfur content; or as back up, an Inductively Coupled Plasma Analyzer utilizing EPA Test Method 6010 will be used to determine sulfur content;
- (vi) The results of the analysis will be recorded in the sample log book; and
- (vii) The laboratory will issue a tank release form to the operator, which will indicate the sulfur content of the heater fuel.

- (viii) Once the tank release form is issued, the contents of the tank will be available to fuel the process heaters.
- (ix) Anytime that heater fuel is added to the tank, the sampling and analysis process noted in paragraphs (e)(4)(A)(i) through (viii) will be repeated for the tank.

(B) For off-gas fuel:

Except for monitoring system malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments) the Permittee shall monitor continuously (or collect data at all required intervals) any time a source of emissions is operating.

- (i) Two (2) Antec P6200S Analyzers shall be used for the sulfur analysis of the off-gas fuel streams. With these analyzers, the sample is pyrolyzed with an excess of oxygen, which converts all of the components in the sample to permanent gases. Sulfur compounds are converted to sulfur dioxide (SO<sub>2</sub>). A copy of the Operation Summary for the P6200 Process Analyzer as provided by the manufacturer is attached to SPM 089-21542-00301.
  - (a) One (1) analyzer shall be connected to the supply line from V-410, through which the off-gas flows to the process heaters. The analyzer shall be programmed to automatically sample and analyze this supply line, at a minimum of four (4) times per hour.
  - (b) One (1) analyzer shall be connected to the supply line from V-307, through which the off-gas flows to the process heaters. The analyzer shall be programmed to automatically sample and analyze this supply line, at a minimum of two (2) times per hour.
- (ii) The analyzer shall be connected to the digital control system (DCS) in the Operations Control Room. This DCS shall record and display the concentration in ppm. An alarm is set on the DCS to alert the operator, if concentrations are such that a response is required from the operator.

Monitoring System Malfunction

Back-up off-gas analyzer procedures are as follows:

- (iii) Any interruption in the collection of valid data that lasts more than twelve (12) hours shall be substituted with manual sampling. Manual sampling data shall begin within the first twelve (12) hours after the last sample analyzed by the Antec P6200S Analyzer. Manual sampling shall continue once every twelve (12) hour period (once per shift) until a valid analysis has been taken.
- (iv) Corrective action shall be taken in the event of an unscheduled monitoring system malfunction.

- (v) IDEM, OAQ shall be notified prior to any scheduled monitoring system malfunction that will last longer than one (1) week.
- (vi) For all monitor system malfunctions, the Permittee shall submit quarterly reports that contain the following:
  - (a) Beginning and end dates and time of the monitor system malfunction;
  - (b) The corrective actions taken; and
  - (c) The manual sampling data substituted.

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

Pursuant to 326 IAC 8-4-3(a), the insignificant storage tank, identified as T-983, is not subject to requirements of 326 IAC 8-4-3 because the tank does not store a liquid that contains volatile organic compounds whose true vapor pressure is greater than 10.5 kPa (1.52 psi).

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

- (a) Pursuant to 326 IAC 8-9-1(b), stationary vessels, located in Lake County with a capacity less than thirty-nine thousand (39,000) gallons are subject to the provisions of 326 IAC 8-9-6(a) and (b) and are exempt from all other provisions 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels).

Therefore, based on the requirements 326 IAC 8-9-1(b), the storage tanks, identified as T-9, T26, T-27, T-101 through T-112, T-120, T-121, T-651 through T-654, T-906, T-907, T-909, T-912 through T-917, T-931 through T-936, T-941, T-942, T-944 through T-954, T-961, T-962, and T-981 through T-983 are required to comply with the following:

- (1) The Permittee of each vessel subject to this rule shall keep all records required by this section for three (3) years unless specified otherwise.
- (2) The Permittee of each vessel to which 326 IAC 8-9-1 of this rule applies shall maintain a record and submit to the IDEM, OAQ a report containing the following information for each vessel:
  - (A) The vessel identification number;
  - (B) The vessel dimensions; and
  - (C) The vessel capacity.

These records shall be maintained for the life of the source.

- (b) Pursuant to 326 IAC 8-9-1(c), stationary vessels, located in Lake County with a capacity equal to or greater than thirty-nine thousand (39,000) gallons that store a VOL with a maximum true vapor pressure equal to or greater than five-tenths (0.5) pound per square inch absolute (psia) but less than seventy-five hundredths (0.75) psia are subject to the provisions of 326 IAC 8-9-6(a), (b), (g), and (h) and are exempt from all other provisions 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels).

Therefore, based on the requirements 326 IAC 8-9-1(c), the storage tank, identified as T-909, must comply with the following since each tank stores a liquid that contains volatile organic

compounds whose maximum true vapor pressure is no more than 0.75 psia.

- (1) The Permittee of each vessel subject to this rule shall keep all records required by this section for three (3) years unless specified otherwise.
- (2) The Permittee of each vessel to which 326 IAC 8-9-1 of this rule applies shall maintain a record and submit to the IDEM, OAQ a report containing the following information for each vessel:
  - (A) The vessel identification number;
  - (B) The vessel dimensions; and
  - (C) The vessel capacity.

These records shall be maintained for the life of the source.

- (3) The Permittee of each vessel either with a design capacity greater than or equal to thirty-nine thousand (39,000) gallons storing a VOL with a maximum true vapor pressure greater than or equal to five-tenths (0.5) pound per square inch absolute (psia) but less than seventy-five hundredths (0.75) psia shall maintain a record of the maximum true vapor pressure of the VOL stored in each vessel. The record for each vessel shall contain the following information:
    - (A) The type of VOL stored;
    - (B) The dates of the VOL storage; and
    - (C) For each day of VOL storage, the average stored temperature for VOLs stored above or below the ambient temperature or average ambient temperature for VOLs stored at ambient temperature, and the corresponding maximum true vapor pressure.
  - (4) The Permittee of each vessel with a design capacity greater than or equal to thirty-nine thousand (39,000) gallons storing a liquid with a maximum true vapor pressure that is normally less than seventy-five hundredths (0.75) psia shall maintain a record and notify the IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid exceeds seventy-five hundredths (0.75) psia.
- (c) Pursuant to 326 IAC 8-9-2(4), T-52, T-905, T-908, T-911, T-937, T-938, and T-955 are exempt from the requirements of 326 IAC 8-9 because each vessel has a storage capacity of less than 420,000 gallons and is used for petroleum or condensate stored, processed, or treated prior to custody transfer.
  - (d) Pursuant to 326 IAC 8-9-2(8), T-51, T-901 through T-904, and T-939 are exempt from the requirements of 326 IAC 8-9 because each tank is subject to a provision of NSPS Subpart Kb.

### Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance require-

ments are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

There are no additional Compliance Monitoring Requirements included in this modification.

### Testing Requirements

In order to demonstrate compliance with the short-term pounds of SO<sub>2</sub> per hour limits that are required by 326 IAC 7-4.1-16(2)(C), 326 IAC 7-4.1-16(3)(C), and 326 IAC 7-4.1-16(4) for Process Heater H-406, the following testing will be required:

Within 180 days the after installation of the off-gas component at Process Heater H-406, in order to demonstrate compliance with the pounds of SO<sub>2</sub> per hour limitation on Process H-406, the Permittee shall perform SO<sub>2</sub> testing on the Process Heater H-406 stack exhaust when combusting the "worst case" SO<sub>2</sub> emitting off-gas, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

### Proposed Changes

The following are proposed changes due to the modification. Also, IDEM, OAQ has initiated certain changes to the permit. [deleted language appears as ~~strikeouts~~, new language appears in **bold**]

#### Change 1:

Condition A.1 will be revised as follows:

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

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The Permittee owns and operates a stationary oil re-refinery source.

Responsible Official:	Plant Manager
Source Address:	601 Riley Road, East Chicago, Indiana 46312-1638
Mailing Address:	601 Riley Road, East Chicago, Indiana 46312-1638
General Source Phone Number:	(219) 391-6100
SIC Code:	2992
County Location:	Lake
Source Location Status:	Nonattainment for SO <sub>2</sub> , Ozone <b>under the 8-hour and 1-hour standards</b> , and <del>PM<sub>10</sub></del> <b>PM<sub>2.5</sub></b>
Source Status:	Attainment for all other criteria pollutants Part 70 Permit Program Major <b>Source</b> , under <b>PSD and Emission Offset Rules</b> ; Minor Source, Section 112 of the Clean Air Act <del>Not one</del> <b>1</b> of 28 listed source categories

#### Change 2:

Condition A.2 as well as the equipment description box in Section D.1 will be revised. In addition paragraph (d) will be added to Condition A.3. The changes are as follows:

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

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- ~~(d)~~ One (1) natural gas-fired boiler, identified as SB-823, to be constructed, with a maximum capacity of 34.0 MMBtu/hr, and exhausting through stack SB-823.
- ~~(e)~~ **(d)** One (1) natural gas/distillate fuel oil No. 2 off-gas-fired process heater,  **fueled by a combination of natural gas, No. 2 fuel oil equivalent, and off-gases**, identified as H-201, installed in 1990, with a maximum capacity of 27.3 MMBtu/hr, and exhausting through stack H-201.
- ~~(f)~~ **(e)** One (1) natural gas/distillate fuel oil No. 2 fired indirect heating unit  **process heater, fueled by a combination of natural gas and No. 2 fuel oil equivalent**, identified as H-301, installed in 1989, with a maximum capacity of 20.0 MMBtu/hr, and exhausting through stack H-301.
- ~~(g)~~ **(f)** One (1) natural gas-fired process heater, identified as H-302, installed in 1992, with a maximum capacity of 15.1 MMBtu/hr, and exhausting through stack H-302.
- ~~(h)~~ **(g)** One (1) natural gas/distillate fuel oil No. 2 off-gas-fired process heater,  **fueled by a combination of natural gas, No. 2 fuel oil equivalent, and off-gases**, identified as H-401, installed in 1990, with a maximum capacity of 15.3 MMBtu/hr, and exhausting through stack H-401.
- ~~(i)~~ **(h)** One (1) natural gas/distillate fuel oil No. 2 off-gas-fired process heater,  **fueled by a combination of natural gas and No. 2 fuel oil equivalent**, identified as H-402, installed in 1990, with a maximum capacity of 11.7 MMBtu/hr, and exhausting through stack H-402.
- ~~(j)~~ **(i)** One (1) natural gas-fired process heater, identified as H-404, installed in 1994, with a maximum capacity of 9.0 MMBtu/hr, and exhausting through stack H-404.
- ~~(k)~~ **(j)** One fractionation tower system installed in 2002, consisting of:
  - (1) One (1) natural gas-fired process heater,  **fueled by a combination of natural gas and off-gases**, identified as H-406, installed in 2002, with a maximum capacity of 20.0 MMBtu/hr, equipped with a low NO<sub>x</sub> burner, and exhausting through stack H-406.
  - (2) One (1) vacuum tower.
  - (3) Six (6) air coolers.
  - (4) Two (2) air strippers.
  - (5) Two (2) vacuum pumps and twenty (20) miscellaneous pumps.
- ~~(l)~~ **(k)** One (1) storage tank, identified as T-9, installed in 1968, with a maximum capacity of 20,000 gallons.
- ~~(m)~~ **(l)** Two (2) storage tanks, identified as T-26 and T-27, installed in 1968, with a maximum capacity of 19,110 gallons, each.

- (m) One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-51, installed in 1993, with a maximum capacity of 4,000,000 gallons, **storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).**
- (n) One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-52, installed in 1966, with a maximum capacity of 126,000 gallons.
- (o) Eleven (11) storage tanks, identified as T-101 through T-108, and T-110 through T-112, installed in 1989, with a maximum capacity of 30,000 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- (p) Two (2) storage tanks, identified as T-906 and T-907, installed in 1989, with a maximum capacity of 30,598 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- (q) Fourteen (14) storage tanks, identified as T-931, T-932, T-935, T-936, T-941, T-942, T-944, T-945, T-948, T-949, T-951, T-952, T-981 and T-982, installed in 1989, with a maximum capacity of 29,611 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- (r) Four (4) storage tanks, identified as T-933, T-934, T-946 and T-947, installed in 1989, with a maximum capacity of 29,617 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- (s) One (1) storage tank, identified as T-109, installed in 1989, with a maximum capacity of 20,000 gallons, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- (t) Two (2) storage tanks, identified as T-120 and T-121, installed in 1989, with a maximum capacity of 15,000 gallons, each.
- (u) Four (4) storage tanks, identified as T-651 through T-654, installed in 1992, with a maximum capacity of 30,401 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa).**
- (v) Four (4) storage tanks, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-901 through T-904, installed in 1989, with a maximum capacity of 640,000 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).**
- (w) One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-905, installed in 1989, with a maximum capacity of 120,000 gallons.
- (x) One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-908, installed in 1989, with a maximum capacity of 170,000 gallons.
- (y) One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-909, installed in 1952, with a maximum capacity of 2,000,000 gallons, **storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa).**

- ~~(aa)~~ **(z)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-911, installed in 1989, with a maximum capacity of 120,000 gallons.
- ~~(bb)~~ **(aa)** Two (2) storage tanks, identified as T-912 and T-913, installed in 1993, with a maximum capacity of 30,000 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(cc)~~ **(bb)** Three (3) storage tanks, identified as T-914 through T-916, installed in 1993, with a maximum capacity of 31,028 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(dd)~~ **(cc)** Two (2) storage tanks, identified as T-953 and T-954, installed in 1993, with a maximum capacity of 29,611 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(ee)~~ **(dd)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-937, installed in 1989, with a maximum capacity of 300,000 gallons.
- ~~(ff)~~ **(ee)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-938, installed in 1989, with a maximum capacity of 170,000 gallons.
- ~~(gg)~~ **(ff)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-939, installed in 1989, with a maximum capacity of 640,000 gallons, **storing liquids with a maximum true vapor pressure that is less than 0.75 psia (5.17 kPa)**.
- ~~(hh)~~ **(gg)** One (1) storage tank, identified as T-950, installed in 1989, with a maximum capacity of 9,024 gallons.
- ~~(ii)~~ **(hh)** One (1) storage tank, **used for petroleum or condensate stored, processed, or treated prior to custody transfer**, identified as T-955, installed in 1994, with a maximum capacity of 128,520 gallons.
- ~~(jj)~~ **(ii)** Two (2) storage tanks, identified as T-961 and T-962, installed in 1994, with a maximum capacity of 30,000 gallons, each, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(kk)~~ **(jj)** One (1) storage tank, identified as T-917, installed in 1995, with a maximum capacity of 31,208 gallons, **storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa)**.
- ~~(ll)~~ **(kk)** Degreasing operations consisting of the following:
- (1) **One (1) cold cleaner, identified as** Maintenance Degreaser ~~—uses Premium Solvent~~, with an annual **solvent** usage of 1060 gallons per year. **This degreaser does not use halogenated solvents.**
  - (2) **One (1) cold cleaner, identified as** Railcar Unloading Area Degreaser ~~—uses Premium Solvent~~, with an annual **solvent** usage of 1060 gallons per year. **This degreaser does not use halogenated solvents.**

- (3) **One (1) cold cleaner, identified as Tanker Trailer Unloading Bays 1&2 ~~uses HTS Distillate~~, with an annual solvent usage of 840 gallons per year. This degreaser does not use halogenated solvents.**
- (4) Tanker Trailer Unloading Bays 3&4 ~~uses HTS Distillate~~, with an annual solvent usage of 840 gallons per year. **This degreaser does not use halogenated solvents.**

The same changes were made to the equipment description boxes for Sections D.1, D.2, and D.3.

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

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

- (a) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6. ~~[326 IAC 8-3-2] [326 IAC 8-3-5]~~

**One (1) cold cleaner degreasing unit that does not use halogenated solvents, identified as Maintenance Degreaser 2, installed before 1990, capacity: 40 gallons of cleaning solvent per year. [326 IAC 8-3-2] [326 IAC 8-3-5]**

- (b) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4] [326 IAC 6-1-11.1] Covered in Conditions C.5 and C.6.
- (c) Fugitive dust from vehicle traffic. [326 IAC 6-4] [326 IAC 6-1-11.1] Covered in Conditions C.5 and C.6.

**(d) Other activities or categories not previously identified:**

**One (1) storage tank, identified as T-983, installed in 2005, with a maximum capacity of 30,000 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa). [326 IAC 8-9-6(a) and (b)]**

The same changes were made to the equipment description boxes in Sections D.2 and D.3

**Change 3:**

Condition B.2 (Permit Term) will be revised to clarify the permit term as follows:

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

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- (a) This permit, **T 089-7556-00301** is issued for a fixed term of five (5) years from the original date, 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.
- (b) **If IDEM, OAQ, upon receiving a timely and complete renewal application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.**

**Change 4:**

Conditions B.8(b) will be revised as follows to clarify that the certification form may cover more than

one (1) document that is submitted:

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

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- (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.**

**Change 5:**

IDEM has determined that the Permittee is not required to keep records of all preventive maintenance. However, where the Permittee seeks to demonstrate that an emergency has occurred, the Permittee must provide, upon request, records of preventive maintenance in order to establish that the lack of proper maintenance did not cause or contribute to the deviation. Therefore, Condition B.11(b) will be deleted and Condition B.12(e) will be revised as follows:

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

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- ~~(b)~~ ~~The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.~~
- ~~(c)~~ **(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 contributes to any violation. The PMPs does not require the certification by the ~~responsible official~~ as defined by 326 IAC 2-7-1(34).
- ~~(d)~~ **(c)** Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

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

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- (e) **The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.**

**Change 6:**

40 CFR 89, Appendix A specifically indicates that states are not precluded from regulating the use and operation of nonroad engines, such as regulations on hours of usage, daily mass emission limits, or sulfur limits on fuel; nor are permits regulating such operations precluded, once the engine is no longer new. Therefore, paragraph (d) will be removed from Condition B.17 as follows:

B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

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- ~~(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.~~

### Change 7:

For clarification purposes, Conditions B.19(a)(3) and (5) and (c) will be revised. In addition, Condition B.19(e) will be added to state that backup fuel switches will not be considered alternative operating scenarios. The changes to Condition B.19 will be as follows:

#### B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]

- (a) (3) The changes do not result in emissions which exceed the ~~emissions allowable under~~ **limitations provided in** this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (a) (5) The Permittee maintains records on-site, **on a rolling five (5) year basis**, which document, ~~on a rolling five (5) year basis~~, all such changes and emissions trading **trades** that are subject to 326 IAC 2-7-20(b), (c), or (e). ~~and makes~~ **The Permittee shall make** such records available, upon reasonable request, for public review.
- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade **emissions** increases and decreases ~~in emissions in~~ **at** the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (e) **Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.**

### Change 8:

The OAQ, I/M & Billing Section listed in Condition B.23(c) should now be the OAQ, Billing, Licensing, and Training Section. Therefore, Condition B.23(c) will be revised as follows:

#### B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

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

### Change 9:

In accordance with the credible evidence rule (62 Fed. Reg. 8314, Feb 24, 1997); Section 113(a) of the Clean Air Act, 42 U.S.C. Section 7413 (a); and a letter from the United States Environmental Protection Agency (USEPA) to IDEM, OAQ dated May, 18 2004, all permits must address the use of credible evidence; otherwise, USEPA will object to the permits. The following language will be incorporated into the permit to address credible evidence as Condition B.24:

#### B.24 Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314] [326 IAC 1-1-6]

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

### Change 10:

This source is located in Lake County and would be subject to the requirements of 326 IAC 6.8. Therefore, the requirements of 326 IAC 6-3-2 are not applicable to this source. Condition C.1 is no longer necessary and has been deleted as follows:

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

~~(a) Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than one hundred (100) pounds per hour shall not exceed 0.551 pounds per hour.~~

~~(b) 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. This condition is not federally enforceable.~~

### Change 11:

The new rule cite for repealed 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements) is 326 IAC 6.8-3-10. Therefore, Condition C.5 (formerly Condition C.6) will be revised as follows:

~~C.6.5 Fugitive Dust Emissions [326 IAC 6-1-11.1] [326 IAC 6.8-10-3]~~

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

### Change 12:

Since the requirements of Condition C.6 (Operation of Equipment) would be incorporated into a D-Section of a Part 70 Operating Permit if necessary, Condition C.6 has been removed from the permit, as follows, and the remainder of Section C has been renumbered accordingly:

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

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

### Change 13:

IDEM has reconsidered the requirement to develop and follow a Compliance Response Plan. The Permittee will still be required to take reasonable response steps when a compliance monitoring parameter is determined to be out of range or abnormal. Replacing the requirement to develop and follow a Compliance Response Plan with a requirement to take reasonable response steps will ensure that the control equipment is returned to proper operation as soon as practicable, while still allowing the Permittee the flexibility to respond to situations that were not anticipated. Condition C.16 (now Condition C.14) will be revised as follows:

~~C.16 14 Compliance Response Plan – Preparation, Implementation, Records, and Reports Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]~~

~~(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this~~

~~permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:~~

- ~~(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.~~
  - ~~(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (c) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.~~
- ~~(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:~~
- ~~(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or~~
  - ~~(2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.~~
  - ~~(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be 10 days or more until the unit or device will be shut down, then the Permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.~~
  - ~~(4) Failure to take reasonable response steps shall be considered a deviation from the permit.~~
- ~~(c) The Permittee is not required to take any further response steps for any of the following reasons:~~
- ~~(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.~~
  - ~~(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.~~
  - ~~(3) An automatic measurement was taken when the process was not operating.~~
  - ~~(4) The process has already returned or is returning to operating within normal parameters and no response steps are required.~~
- ~~(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B Deviations from Permit Requirements and Conditions.~~

- ~~(e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.~~
- ~~(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.~~
- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.**
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:**
- (1) initial inspection and evaluation;**
  - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or**
  - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:**
- (1) monitoring results;**
  - (2) review of operation and maintenance procedures and records;**
  - (3) inspection of the control device, associated capture system, and the process.**
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.**
- (e) The Permittee shall maintain the following records:**
- (1) monitoring data;**
  - (2) monitor performance data, if applicable; and**
  - (3) corrective actions taken.**

**Change 14:**

Since 326 IAC 7-4-1.1 has been repealed and replaced with the requirements of 326 IAC 7-4.1-16 specifically for Safety-Kleen Oil Recovery Co., Condition D.1.1 will be revised as follows:

D.1.1 Sulfur Dioxide (SO<sub>2</sub>) Emission Limitations [326 IAC 7-4.1-16] [326 IAC 2-3]

- (a) Pursuant to ~~326 IAC 7-4-1.1(19)(A)~~ **326 IAC 7-4.1-16(1)**, the four (4) boilers, identified as **Boilers SB-801, SB-820, and SB-821, and SB-822 and Process Heaters H-302 and H-404** shall use natural gas only.
- (b) ~~Pursuant to 326 IAC 7-4-1.1(19)(B), the three (3) process heaters, identified as H-201, H-302 and H-303 and the one (1) indirect heating unit, identified as H-301:~~
- ~~(1) Shall use a combination of natural gas, #2 fuel oil equivalent and off-gases.~~
  - ~~(2) The combined sulfur dioxide emissions from these four (4) process heaters shall not exceed 0.3 pounds per million British thermal units of actual heat input. This requirement will also satisfy the requirements of 326 IAC 7-1.1-1.~~
  - ~~(3) The combined sulfur dioxide emissions from these four (4) process heaters shall not exceed 14 pounds per hour and 60 tons per year.~~
- (b) Pursuant to 326 IAC 7-4.1-16(2), the following requirements shall apply:
- (1) **Process Heater H-201, with a capacity (rating) of twenty-seven and three-tenths (27.3) MMBtu per hour, shall use a combination of natural gas, No. 2 fuel oil equivalent, and off-gases;**
  - (2) **Process Heater H-301, with a capacity of twenty and zero-tenths (20.0) MMBtu per hour, shall use a combination of natural gas and No. 2 fuel oil equivalent; and**
  - (3) **The combined sulfur dioxide emissions from these two (2) process heaters shall not exceed fourteen (14) pounds per hour and sixty (60) tons per year.**
  - (4) **The limits make the requirements of 326 IAC 2-3 not applicable. Compliance with these limits is necessary to render the requirements of 326 IAC 2-3 not applicable.**
- (c) ~~Pursuant to 326 IAC 7-4-1.1(19)(C), the two (2) process heaters, identified as H-200 and H-701:~~
- ~~(1) Shall use a combination of natural gas, #2 fuel oil equivalent and off-gases.~~
  - ~~(2) The combined sulfur dioxide emissions from the two (2) process heaters shall not exceed 0.3 pounds per million British thermal units of actual heat input.~~
  - ~~(3) The combined sulfur dioxide emissions from these two (2) process heaters shall not exceed 14 pounds per hour and 60 tons per year.~~
- (c) Pursuant to 326 IAC 7-4.1-16(3), the following requirements shall apply:
- (1) **Process Heater H-401, with a capacity of fifteen and three-tenths (15.3) MMBtu per hour, shall use a combination of natural gas, No. 2 fuel oil equivalent, and off-gases;**
  - (2) **Process Heater H-402, with a capacity of eleven and seven-tenths (11.7) MMBtu per hour, shall use a combination of natural gas and No. 2 fuel oil equivalent; and**
  - (3) **The combined sulfur dioxide emissions from these two (2) process heaters**

**shall not exceed ten and eight-tenths (10.8) pounds per hour and forty-seven and three-tenths (47.3) tons per year.**

(4) ~~The limits make the requirements of 326 IAC 2-3 not applicable~~ **Compliance with these limits is necessary to render the requirements of 326 IAC 2-3 not applicable.**

~~(d) Pursuant to 326 IAC 7-4-1.1(19)(D), the six (6) process heaters, identified as H-401, H-402, H-404, H-405, H-451 and H-452:~~

~~(1) Shall use a combination of natural gas, #2 fuel oil equivalent and off-gases.~~

~~(2) The combined sulfur dioxide emissions from these six (6) process heaters shall not exceed 0.3 pounds per million British thermal units of actual heat input.~~

~~(3) The combined sulfur dioxide emissions from these six (6) process heaters shall not exceed 16.67 pounds per hour and 70 tons per year.~~

**(d) Pursuant to 326 IAC 7-4.1-16(4), Process Heater H-406, with a capacity of twenty (20.0) MMBtu per hour, shall use a combination of natural gas and off-gases. The sulfur dioxide emissions shall not exceed eight (8) pounds per hour. (4) These limits makes the requirements of 326 IAC 2-3 not applicable Compliance with this limit is necessary to render the requirements of 326 IAC 2-3 not applicable.**

**(e) The sulfur content of the off-gases used at Process Heater H-406 shall not exceed 0.42% sulfur.**

~~(e) (f) Compliance with the SO<sub>2</sub> emission limit shall be demonstrated based upon the sum of the SO<sub>2</sub> emissions from the four (4) boilers on natural gas plus the SO<sub>2</sub> emissions from the Twelve (12) process heaters on natural gas, process off-gas and No. 2 fuel oil. To demonstrate compliance with the SO<sub>2</sub> emission limits in paragraphs (b)(3), (c)(3), and (d) of this condition, ¶the SO<sub>2</sub> emission rates shall be calculated based on using the following emission factors:~~

Fuel Type	Emission Factor for Boilers	Emission Factor for Process Heaters
Natural Gas	0.6 pounds per million cubic feet of natural gas	0.6 pounds per million cubic feet of natural gas
Process Off-gases	Not Applicable	950 pounds per million cubic feet of off-gas times the sulfur content (%)
No. 2 Fuel Oil Equivalent	Not Applicable	142 pounds per kilo-gallon of No. 2 fuel oil equivalent times the sulfur content (%)

~~(f) This rule is not federally enforceable.~~

~~NOTE: The following equipment was not installed or has been removed: SB-822, H-303, H-200, H-701, H-405, H-451 and H-452.~~

~~These limits in conjunction with 326 IAC 2-3 emission offset the requirements of 326 IAC 7-4.1-16 make render the requirements of 326 IAC 2-3 not applicable.~~

### Change 15:

The sulfur dioxide emission limitations in Condition D.1.2 and the compliance schedule in Condition D.1.3 have been removed from the requirements of 40 CFR 52, Subpart P. Therefore, Conditions D.1.2 and D.1.3 will be deleted as follows:

#### ~~D.1.2 Sulfur Dioxide Emission Limitations [40 CFR 52 Subpart P]~~

~~The source shall burn natural gas or may burn distillate oil with SO<sub>2</sub> emissions limited to 0.3 pounds per million British thermal units of heat input.~~

#### ~~D.1.3 Compliance Schedule [326 IAC 2-7-6(3)]~~

~~The IDEM, OAQ is aware that the state rule 326 IAC 7-4 has not been SIP approved by the USEPA.. In addition, the IDEM, OAQ is aware that the Permittee is not in compliance with the current federal rule 40 CFR Part 52, Subpart P, as listed in Condition D.1.2, because the Permittee is currently burning off-gas which the federal rule does not allow for. The Permittee shall comply with the following requirements until such issue is resolved:~~

- ~~(a) Boilers SB-801, SB-820, SB-821 and SB-823 shall use natural gas only.~~
- ~~(b) Process heater H-201 (27.3 MMBtu/hr) shall use a combination of natural gas, #2 fuel-oil equivalent and off-gases.~~
- ~~(c) Process heater H-301 (20.0 MMBtu/hr) shall use a combination of natural gas and #2 fuel-oil equivalent.~~
- ~~(d) Process heater H-302 (15.1 MMBtu/hr) shall use natural gas only.~~
- ~~(e) The combined sulfur dioxide emissions from the three (3) process heaters, identified as H-201, H-301 and H-302, shall not exceed 14 pounds per hour and 60 tons per year.~~
- ~~(f) Process heater H-401 (15.3 MMBtu/hr) shall use a combination of natural gas, #2 fuel-oil equivalent and off-gases.~~
- ~~(g) Process heater H-402 (11.7 MMBtu/hr) shall use a combination of natural gas and #2 fuel-oil equivalent.~~
- ~~(h) Process heater H-404 (9.0 MMBtu/hr) shall use natural gas only.~~
- ~~(i) The combined sulfur dioxide emissions from the three (3) process heaters, identified as H-401, H-402 and H-404 shall not exceed 10.8 pounds per hour and 47.3 tons per year.~~
- ~~(j) Process heater H-406 (20.0 MMBtu/hr) shall use natural gas only.~~

~~The second notice in this draft rule was published in the Indiana Register Notice on June 1, 2003. The IDEM shall re-open this permit pursuant to 326 IAC 2-7-6(3) when the rule is promulgated final.~~

### Change 16:

Since Boiler SB-823 was never constructed and Process Heater H-301 is not considered a source of indirect heating, Condition D.1.6 (now Condition D.1.4) will be revised as follows:

D.1.4 Particulate [326 IAC 6-2-4]

- ~~(a) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating: emission limitations for facilities specifically listed in 326 IAC 6-2-1(d)), particulate emissions from the one (1) indirect heating unit (H-301), installed after September 21, 1983, shall not exceed 0.38 pounds of particulate matter per MMBtu heat input.~~
- (b) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Source of Indirect Heating: emission limitations for facilities specifically listed in 326 IAC 6-2-1(d)), particulate emissions from the ~~three (3)~~ **two (2)** boilers (SB-820, ~~and SB-821 and SB-823~~), installed after September 21, 1983, shall not exceed 0.30, ~~and 0.33 and 0.28~~ pounds of particulate matter per MMBtu heat input, respectively.

The limitations in ~~(a) and (b)~~ are based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}} \quad \text{Where } Pt = \text{pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input.}$$

Q = capacity for facility in question and capacity of those facilities which were previously constructed or received prior permits to construct.

**Change 17:**

Since Condition D.1.1(a) only permits the source to use natural gas at Boilers SB-801, SB-820, and SB-821, the requirement for the source to use natural gas only in Condition D.1.6 is not necessary. Therefore, Condition D.1.6 will be deleted as follows:

~~D.1.6 Natural Gas~~

~~In order to demonstrate compliance with Conditions D.1.3 and D.1.4, the source shall burn only natural gas.~~

**Change 18:**

In Condition D.1.9 (now Condition D.1.6), paragraph (a) will be replaced with the compliance requirements of 326 IAC 7-4.1-16(5)(A), which is the compliance option that Safety-Kleen Recovery selected, and the fuel sampling and analysis protocol for that selected option will be added to paragraph (b) as follows:

D.1.9 6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 7-4.1-16(5)]

- (a) Compliance with Conditions D.1.1, ~~D.1.2 and D.1.3~~ shall be determined utilizing ~~one of the following options~~ **326 IAC 7-4.1-16(5)(A) as follows:**
- (1) ~~Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions do not exceed three tenths (0.3) pound per million Btu heat input by:~~
- (A) ~~Providing vendor analysis of fuel delivered, if accompanied by a vendor certification; or~~
- (B) ~~Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.~~
- (i) ~~Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and~~
- (ii) ~~If a partially empty fuel tank is refilled, a new sample and analysis~~

~~would be required upon filling.~~

- (1) **Monitor sulfur content in the off-gas streams for Process Heaters H-201, H-401, and H-406.**
- ~~(2) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boiler using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.~~
- (2) **Prior to sampling the fuel in the fuel tank, mix the contents of the tank to ensure consistent composition of the fuel throughout the tank.**
- (3) **Perform fuel sampling and analysis for the sulfur content of the fuel in each fuel tank:**
  - (A) **Prior to the first time the fuel is burned; and**
  - (B) **Subsequently, prior to burning the fuel whenever additional fuel has been added to the tank since the last sampling event.**
- (4) **Maintain records sufficient to demonstrate compliance for at least three (3) years.**
- (5) **Submit an excess emissions report to the department within thirty (30) days after the end of each calendar quarter.**

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

- (b) In order to determine compliance with the **hourly and annual** SO<sub>2</sub> emission limitations in Condition D.1.3 **1(a)(3), (b)(3), (c)(3), and (d)**, the Permittee shall ~~perform~~ **utilize the fuel sampling and analysis protocol specified in the 326 IAC 7-4.1-16(5) compliance option that Safety-Kleen Oil Recovery Co. selected in paragraph (a) of this condition.** ~~as listed in below~~ **The protocol states:**

- (1) **For liquid heater fuel:**

**Sampling**

**Subsequent to the addition and mixing of liquid heater fuel into a tank, a sample shall be obtained in the following manner:**

- (A) **The operator shall drain off approximately one (1) gallon from the sample tap before taking the sample;**
- (B) **The sample shall be labeled (with the tank number, product type, date, time and initials of the sampler); and**
- (C) **The sample shall be submitted to the on-site laboratory for analysis**

**Analysis**

- (D) **The laboratory personnel shall enter the sample into the sample log book;**

- (E) The sample will be analyzed using an ELTRA CS-500 Double Dual Range Carbon/Sulfur Determinator. This Sulfur Determinator utilizes method ASTM D1552-03 to determine sulfur content; or as back up, an Inductively Coupled Plasma Analyzer utilizing EPA Test Method 6010 shall be used to determine sulfur content;**
- (F) The results of the analysis shall be recorded in the sample log book; and**
- (G) The laboratory shall issue a tank release form to the operator, which will indicate the sulfur content of the heater fuel.**
- (H) Once the tank release form is issued, the contents of the tank shall be available to fuel the process heaters.**
- (I) Anytime that heater fuel is added to the tank, the sampling and analysis process noted in paragraphs (b)(1)(A) through (H) of this condition shall be repeated for the tank.**

**(2) For off-gas fuel:**

**Except for monitoring system malfunctions, associated repairs, and required quality assurance or control activities (including as applicable, calibration checks and required zero and span adjustments) the Permittee shall monitor continuously (or collect data at all required intervals) any time a source of emissions is operating.**

- (A) Two (2) Antec P6200S Analyzers shall be used for the sulfur analysis of the off-gas fuel streams. With these analyzers, the sample is pyrolyzed with an excess of oxygen, which converts all of the components in the sample to permanent gases. Sulfur compounds are converted to sulfur dioxide (SO<sub>2</sub>). A copy of the Operation Summary for the P6200 Process Analyzer as provided by the manufacturer is attached to SPM 089-21542-00301.**
  - (i) One (1) analyzer shall be connected to the supply line from V-410, through which the off-gas flows to the process heaters. The analyzer shall be programmed to automatically sample and analyze this supply line, at a minimum of four (4) times per hour.**
  - (ii) One (1) analyzer shall be connected to the supply line from V-307, through which the off-gas flows to the process heaters. The analyzer shall be programmed to automatically sample and analyze this supply line, at a minimum of two (2) times per hour.**
- (B) The analyzer shall be connected to the digital control system (DCS) in the Operations Control Room. This DCS shall record and display the concentration in ppm. An alarm is set on the DCS to alert the operator, if concentrations are such that a response is required from the operator.**

### **Monitoring System Malfunction**

Back-up off-gas analyzer procedures are as follows:

- (C) Any interruption in the collection of valid data that lasts more than twelve (12) hours shall be substituted with manual sampling. Manual sampling data shall begin within the first twelve (12) hours after the last sample analyzed by the Antec P6200S Analyzer. Manual sampling shall continue once every twelve (12) hour period (once per shift) until a valid analysis has been taken.
  - (D) Corrective action shall be taken in the event of an unscheduled monitoring system malfunction.
  - (E) IDEM, OAQ shall be notified prior to any scheduled monitoring system malfunction that will last longer than one (1) week.
- (c) In addition, the Permittee shall submit a report to IDEM within thirty (30) days after the end of each calendar quarter. The reports shall contain the following information:
- (1) **Daily records of sulfur content that result from the F<sub>fuel</sub> sampling and analysis of the sulfur performed on a daily basis in for the following fuels:**
    - ~~(a)~~ (A) #2 No. 2 fuel oil equivalent; and
    - ~~(b)~~ (B) Off-gases.
- and
- (2) Fuel consumption on a daily basis.
- and
- (3) **For all monitor system malfunctions, the Permittee shall submit:**
    - (A) Beginning and end dates and time of the monitor system malfunction;
    - (B) The corrective actions taken; and
    - (C) The manual sampling data substituted.

#### **Change 19:**

The testing requirement for Process Heater H-406 when combusting off-gas has been added as Condition D.1.7 as follows:

#### **D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]**

Within 180 days after the installation of the off-gas component at Process Heater H-406, in order to demonstrate compliance with the pounds of SO<sub>2</sub> per hour limitation in Condition D.1.1(d), the Permittee shall perform SO<sub>2</sub> testing on Process Heater H-406 when combusting the "worst case" SO<sub>2</sub> emitting off-gas, utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

## Change 20:

Upon further review, IDEM has determined that once per day monitoring of visible emission notation is generally sufficient to ensure proper operation of all process heater stack exhausts. IDEM has also determined that monitoring these parameters once per day is sufficient to satisfy the requirements of the Part 70 rules at 326 IAC 2-7-5 and 326 IAC 2-7-6. In addition, IDEM, OAQ has also determined that visible emissions notations should not be required when the source combusts any type of off-gas. As a result, of these determinations in combination with the changes to Condition C.16 (now Condition C.14) that has been depicted in Change 12, Condition D.1.9 (now Condition D.1.8) will be revised as follows:

### D.1.9 8 Visible Emissions Notations

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- (a) Visible emissions notations of ~~all six (6) process heater~~ **Process Heaters H-201, H-301, H-401 and H-402** stack exhausts (~~H-201, H-302, H-401, H-402, H-404, H-406~~) and one (1) ~~indirect heating unit (H-301)~~ shall be performed once per ~~shift~~ **day** during normal daylight operations while combusting fuel oil ~~equivalents or off-gas~~. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, ~~anormal~~ means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- ~~(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.~~
- (e) If abnormal emissions are observed, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.**

## Change 21:

As a result of Change 5 and Changes 13 through 20, Conditions D.1.11 and D.1.12 (now Conditions D.1.9 and D.1.10) as well as the subsequent report forms will be revised as follows:

### D.1.14 9 Record Keeping Requirements

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- (a) To document compliance with Conditions D.1.1, ~~D.1.2 and D.1.3~~ the Permittee shall maintain records in accordance with (1) through ~~(6)~~ **(3)** below. Records maintained for (1) through ~~(6)~~ **(3)** shall be taken monthly and shall be complete and sufficient to establish compliance with the SO<sub>2</sub> emission limits established in Conditions D.1.1, ~~D.1.2 and D.1.3~~. Records necessary to demonstrate compliance shall be available within thirty (30) days of the end of each compliance period.
  - (1) Calendar dates covered in the compliance determination period;

- (2) Actual fuel usage since last compliance determination period and equivalent sulfur dioxide emissions;
- (3) To certify compliance when burning natural gas only, the Permittee shall maintain records of fuel used;

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

- ~~(4) Fuel supplier certifications;~~
- ~~(5) The name of the fuel supplier; and~~
- ~~(6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.~~
- (b) To document compliance with **Conditions D.1.3 1(b)(3), (c)(3), (d) and (e)**, the Permittee shall maintain records of daily fuel usage **as well as a log of the sulfur content obtained from each fuel sampling and analysis performed in accordance with Condition D.1.6(b)**.
- (c) To document compliance with Condition D.1.4 ~~8~~, the Permittee shall maintain records of visible emission notations of the process heater or stack exhausts once per ~~shift~~ **day** for the process heaters which are combusting **No. 2** fuel oil **equivalents** or off-gas.
- (d) Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall maintain daily records of the amount and type of fuel burned in each of the ~~three (3)~~ **two (2)** boilers, identified as SB-820, **and** SB-821 ~~and SB-823~~, rated at 44.5, **and** 42.5 ~~and 34.0~~ MMBtu/hr, respectively.
- ~~(e) To document compliance with Condition D.1.8, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.~~
- ~~(f)~~ **(e)** All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.12 10 Reporting Requirements

- (a) A quarterly summary of the information to document compliance with **the annual (tons per year) limits contained in** Conditions D.1.3 ~~(e)~~ **1(b)(3) and (c)(3)**, and 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 the ~~responsible official~~ as defined by 326 IAC 2-7-1(34).
- (b) The natural gas process heater certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the six (6) month period being reported. The natural gas-fired process heater certification does require the certification by the responsible official as defined by 326 IAC 2-7-1(34).
- (c) To document compliance with Condition D.1.9 **6(c)**, the Permittee shall submit a report to IDEM, OAQ within thirty (30) days after the end of each calendar quarter.

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

**Part 70 Quarterly Report**

Source Name: Safety-Kleen Oil Recovery Co.  
 Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Part 70 Permit No.: T 089-7556-00301  
 Facility~~ies~~: H-201, ~~and H-301 and H-302~~  
 Parameter: SO<sub>2</sub>\*  
 Limit: ~~Fourteen (14) pounds per hour and~~ **No more than a combined total of sixty (60) tons per year**

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

Month Emission Unit(s)	Column-1 SO <sub>2</sub> Emissions (tons)	Column-2 SO <sub>2</sub> Emissions (tons)	Column-1 + Column-2
	This Month Quarter	Previous 11 Months-Year to date (January 1 - present)	12 Month Total
Month 1 H-201			
Month 2 H-301			
Month 3 H-201 and H-301 combined			

- 9 No deviation occurred in this quarter.
- 9 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.

\* **SO<sub>2</sub> emissions shall be calculated using the emission factors in Condition D.1.1(e).**

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

**Part 70 Quarterly Report**

Source Name: Safety-Kleen Oil Recovery Co.  
 Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Part 70 Permit No.: T 089-7556-00301  
 Facilityies: H-401, and H-402 and H-404  
 Parameter: SO<sub>2</sub>\*  
 Limit: ~~Ten and eight-tenths (10.8) pounds per hour and Fourteen (14) pounds per hour~~  
 and **No more than a combined total of Forty seven and three-tenths (47.3) tons**  
 per year

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

Month Emission Unit(s)	Column-1 SO <sub>2</sub> Emissions (tons)	Column-2 SO <sub>2</sub> Emissions (tons)	Column-1 + Column-2
	This Month Quarter	Previous 11 Months-Year to date (January 1 - present)	12 Month Total
Month 1 H-401			
Month 2 H-402			
Month 3 H-401 and H-201 combined			

- 9 No deviation occurred in this quarter.
- 9 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.

\* **SO<sub>2</sub> emissions shall be calculated using the emission factors in Condition D.1.1(e).**

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

**Part 70 Fuel Usage Report  
 (Submit Report Quarterly)**

Source Name: Safety-Kleen Oil Recovery Co.  
 Source Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Mailing Address: 601 Riley Road, East Chicago, Indiana 46312-1638  
 Part 70 Permit No.: T 089-7556-00301  
 Facilityies: H-201, H-301, H-401, and H-402, and H-406  
 Parameters: SO<sub>2</sub> # 2 No. 2 Fuel Oil Equivalent or Off-Gas Sulfur Content Obtained From Fuel and Sampling Analysis as well as Fuel Usage  
 Limits: Fuel sampling and analysis of sulfur on a daily basis in the following: #2 fuel oil equivalent; and Off-gases. No more than a combined total of 14 pounds of SO<sub>2</sub> per hour for H-201 and H-301; no more than a combined total of 10.8 pounds per hour for H-401 and H-402; and no more than 8 pounds per hour for H-406.\*

Unit(s): \_\_\_\_\_ Fuel Type: \_\_\_\_\_ Month: \_\_\_\_\_ Year: \_\_\_\_\_

Day	Sulfur Content of Fuel (%)	Fuel Usage gallons or MMCF	Day	Sulfur Content of Fuel (%)	Fuel Usage gallons or MMCF
1			17		
2			18		
3			19		
4			20		
5			21		
6			22		
7			23		
8			24		
9			25		
10			26		
11			27		
12			28		
13			29		
14			30		
15			31		
16					

- 9 No deviation occurred in this quarter.
- 9 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.

\* SO<sub>2</sub> emissions shall be calculated using the emission factors in Condition D.1.1(e).

## Change 22

Since 68 FR 59332, Oct. 15, 2003 version of 40 CFR 60.110b was incorporated by reference into 326 IAC 1-1-3 on October 14, 2005 and the insignificant off-gas storage tank, identified as T-983 has been added, Section D.2 of the Part 70 Operating Permit will be revised as follows:

### SECTION D.2

### FACILITY OPERATION CONDITIONS

#### Facility Description [326 IAC 2-7-5(15)]: Storage Tanks (continued)

##### Insignificant Activities

(d) **Other activities or categories not previously identified:**

**One (1) storage tank, identified as T-983, installed in 2005, with a maximum capacity of 30,000 gallons, storing liquids with a maximum true vapor pressure that is less than 2.18 psia (15.0 kPa). [326 IAC 8-9-6(a) and (b)]**

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

#### D.2.1 Standards of Performance for Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60.140b, Subpart Kb ]

~~(a) The storage tanks identified as T-54, T-101 through T-112, T-120, T-121, T-651 through T-654, T-904 T-906, T-907 through T-908, T-944 T-912 through T-917, T-931 through T-939 T-936, T-941, T-942, T-944 through T-949, T-951 through T-955 T-954, T-961, T-962, T-981 and T-982 shall comply with the New Source Performance Standards (NSPS), 326 IAC 12 (40 CFR Part 60.110b, Subpart Kb) because their capacities are greater than or equal to 40 cubic meters and they were built after the July 23, 1984 applicability date. Pursuant to **326 IAC 1-1-3, 326 IAC 12, and 40 CFR Part 60.116b(a) and (b) paragraphs (a) and (b) require the Permittee to shall maintain accessible records showing the dimension of each storage vessel and an analysis showing the capacity of the storage vessel. A copy of 40 CFR Part 60, Subpart Kb, is attached. These requirements are incorporated by reference from the July 1, 2002 version of 40 CFR 60 Subpart Kb and are no longer federally enforceable.**~~

~~(b) Pursuant to 40 CFR 60.116b, Subpart Kb paragraph (d) the source shall notify EPA and IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid stored in tanks, whose capacity is greater than or equal to 151 m<sup>3</sup>, exceeds 5.2 kPa. The source shall also notify EPA and IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid stored in tanks, whose capacities are greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup>, exceeds 27.6 kPa.~~

#### D.2.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9-6]

~~(a) Pursuant to 326 IAC 8-9-6(a) and (b), the owner or operator of each vessel Permittee shall keep maintain the following records for three (3) years for the storage tanks, identified as T-9, T-26, T-27, T-101 through T-112, T-120, T-121, T-651 through T-654, T-906, T-907, T-909, T-912 through T-917, T-931 through T-936, T-941, T-942, T-944 through T-954, T-961, T-962, and T-981 through T-983 unless specified otherwise. Records shall be maintained for the life of the each vessel:~~

~~(a) (1) the vessel identification number~~

~~(b) (2) the vessel dimensions~~

- ~~(c)~~ **(3)** the vessel capacity
- (b) Pursuant to 326 IAC 8-9-6(g), for three (3) years, the Permittee shall maintain a record of the maximum true vapor pressure of the VOL stored in the storage tank, identified as T-909. The record for each vessel shall contain the following information:
- (1) The type of VOL stored;**
  - (2) The dates of the VOL storage; and**
  - (3) For each day of VOL storage, the average stored temperature for VOLs stored above or below the ambient temperature or average ambient temperature for VOLs stored at ambient temperature, and the corresponding maximum true vapor pressure.**
- (c) Pursuant to 326 IAC 8-9-6(h), for the storage tank, identified as T-909, which are vessels that store a liquid whose maximum true vapor pressure is normally less than 0.75 psia, the Permittee shall maintain a record and notify the IDEM, OAQ within thirty (30) days when the maximum true vapor pressure of the liquid exceeds 0.75 psia.

#### **New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]**

##### **D.2.3 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]**

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the storage tanks, identified as T-51, T-901 through T-904, and T-939, except when otherwise specified in 40 CFR Part 60, Subpart Kb

##### **D.2.4 NSPS Kb Requirements [40 CFR Part 60, Subpart Kb]**

Pursuant to CFR Part 60, Subpart Kb, the Permittee shall comply with the provisions of 40 CFR Part 60.110b for the storage tanks, identified as T-51, T-901 through T-904, and T-939, as specified as follows:

###### **§ 60.116b Monitoring of operations.**

- (a) The owner or operator shall keep copies of all records required by this section, except for the record required by paragraph (b) of this section, for at least 2 years. The record required by paragraph (b) of this section will be kept for the life of the source.**
- (b) The owner or operator of each storage vessel as specified in §60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel.**
- (c) Except as provided in paragraphs (f) and (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.**
- (d) Except as provided in paragraph (g) of this section, the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure that is normally less than 5.2 kPa or with a**

**design capacity greater than or equal to 75 m<sup>3</sup> but less than 151 m<sup>3</sup> storing a liquid with a maximum true vapor pressure that is normally less than 27.6 kPa shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range.**

- (e) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.
- (1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.
  - (2) For crude oil or refined petroleum products the vapor pressure may be obtained by the following:
    - (i) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference—see §60.17), unless the Administrator specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).
    - (ii) The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa or with physical properties that preclude determination by the recommended method is to be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa.
  - (3) For other liquids, the vapor pressure:
    - (i) May be obtained from standard reference texts, or
    - (ii) Determined by ASTM D2879–83, 96, or 97 (incorporated by reference—see §60.17); or
    - (iii) Measured by an appropriate method approved by the Administrator; or
    - (iv) Calculated by an appropriate method approved by the Administrator.

**Change 23:**

“P.O. Box 6015” was removed from IDEM, OAQ’s mailing address and the zip code for IDEM, OAQ’s was changed from “46206-6205” to “46204-2251” throughout the entire Part 70 Operating Permit.

**Change 24:**

The third sentence on the Quarterly Deviation and Compliance Monitoring report form has been replaced with the following sentence to be consistent with Section B - Deviations from Permit Requirements and Conditions:

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. ~~Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report.~~  
**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".

## Conclusion

The construction and operation of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification 089-21726-00301 and Part 70 Significant Permit Modification 089-21542-00301.

**Appendix A: Emissions Calculations  
"Worst Case" SO<sub>2</sub> Emitting Off-Gas  
MM BTU/HR <100**

**Company Name: Safety-Kleen Oil Recovery Co.  
Address City IN Zip: 601 Riley Road, East Chicago, Indiana 46312-1638  
Permit Numbers: SSM 089-21726 and SPM 089-21542  
Plt ID: 089-00301  
Reviewer: Michael S. Schaffer  
Application Date: July 29, 2005**

				Pollutant		PM*	PM <sub>10</sub> *	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
Emission Factors (lb/MMCF)						3.00	8.70	399	140	2.80	35.0
								(950.0S)			
								0.42	S =Weight% Sulfur for H-406		
Unit ID	Heat Input MMBTu/hr	Potential Throughput MMCF/yr**	Installation Date								
H-406	20.0	175	2004	0.263	0.762	35.0	12.3	0.245	3.07		
<b>Totals</b>	<b>20.0</b>	<b>175</b>	<b>Totals</b>	<b>0.263</b>	<b>0.762</b>	<b>35.0</b>	<b>12.3</b>	<b>0.245</b>	<b>3.07</b>		

**Methodology**

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

Emission Factors are from Fire 6.24 Industrial, process gas, blast furnace gas & Petroleum refinery gas (SCC 10200701 & 10200704) , March 2004.

\*PM Emission Factor is from filterable PM only and PM<sub>10</sub> Emission Factor is from filterable and condensible PM<sub>10</sub> combined

\*\*Potential throughput is the equivalent off-gas usage if off-gas with 0.42% Sulfur Content at an SO<sub>2</sub> emission rate of 8 pounds per hour is used.

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

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations

HAPs Emissions  
Off-Gas (High Sulfur Content Off-Gas)

Company Name: Safety-Kleen Oil Recovery Co.  
Address City IN Zip: 601 Riley Road, East Chicago, Indiana 46312-1638  
Permit Numbers: SSM 089-21726 and SPM 089-21542  
Plt ID: 089-00301  
Reviewer: Michael S. Schaffer  
Application Date: July 29, 2005

HAPs

Emission Factor in lb/mmBtu	Acetaldehyde 6.60E-06	Benzene 4.19E-04	Chromium 2.97E-07	Chromium (VI) 7.00E-08	Formaldehyde 6.28E-05	Manganese 6.10E-06
Potential Emission in tons/yr	0.001	0.037	0.00003	0.00001	0.006	0.0005

HAPs (continued)

Emission Factor in lb/mmBtu	Mercury 4.225E-07	Naphthalene 2.47E-06	Nickel 1.413E-06	Phenol 3.90E-06	Toluene 7.095E-04	<b>Total</b>
Potential Emission in tons/yr	0.00004	0.0002	0.0001	0.0003	0.062	<b>0.106</b>

Methodology

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

Source of Emission factors - same as page 1