



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: April 28, 2008

RE: Dover Chemical / 089-25143-00227

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

Notice of Decision: Approval – Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) 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.

Pursuant to 326 IAC 2-7-18(d), any person may petition the U.S. EPA to object to the issuance of a Title V operating permit or modification within sixty (60) days of the end of the forty-five (45) day EPA review period. Such an objection must be based only on issues that were raised with reasonable specificity during the public comment period, unless the petitioner demonstrates that it was impracticable to raise such issues, or if the grounds for such objection arose after the comment period.

To petition the U.S. EPA to object to the issuance of a Title V operating permit, contact:

U.S. Environmental Protection Agency
401 M Street
Washington, D.C. 20406

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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
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Thomas W. Easterly
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100 North Senate Avenue
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Indianapolis, Indiana 46204-2251
(317) 232-8603
(800) 451-6027
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Mr. Steve Hartford
Dover Chemical - Hammond Works
3000 Sheffield Avenue
Hammond, Indiana 46327

April 28, 2008

RE: 089-25143-00227
Significant Permit Modification to
Part 70 Operating Permit No.: T089-7797-00227

Dear Mr. Hartford:

Dover Chemical - Hammond Works was issued Part 70 Operating Permit No. T089-7797-00227 on March 19, 2007 for a stationary chlorinated paraffin manufacturing plant. Pursuant to the provisions of 326 IAC 2-7-12, a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the revision of descriptive information for existing emission units, where the revision will not trigger a new applicable requirement or violate a permit term, the addition of new emission units related to the production of HITEC 082, and the revision of permit conditions relaxing the reporting requirements for the chlorination process.

All other conditions of the permit shall remain unchanged and in effect. For your convenience, the entire revised Part 70 Operating Permit, with all modifications and amendments made to it, is being provided.

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 David Matousek, IDEM, Permits Branch, OAQ, 100 North Senate Avenue, MC61-53 IGCN 1003, Indianapolis, Indiana 46204-2251, or call at (800) 451-6027 and ask for David Matousek at extension 2-8253, or dial direct (317) 232-8253.

Original signed by,

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

Attachments

DJM/djm

CC: File - Lake County
U.S. EPA, Region V
Lake County Health Department
Air Compliance Section Inspector
Compliance Branch
Administrative and Development Section
Hammond Department of Environmental Management



Mitchell E. Daniels, Jr.
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Thomas W. Easterly
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**PART 70 OPERATING PERMIT
OFFICE OF AIR QUALITY
and
HAMMOND DEPARTMENT
of ENVIRONMENTAL MANAGEMENT**

**Dover Chemical Corporation – Hammond Works
3000 Sheffield Avenue,
Hammond, IN 46327**

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.

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

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T089-7797-00227	
Issued by: Original signed by Janet G. McCabe Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: March 19, 2004 Expiration Date: March 19, 2009

First Significant Permit Modification No.: 089-18855-00227, issued on August 6, 2004;
First Administrative Amendment No.: 089-21756-00227, issued on November 16, 2005;
Second Significant Permit Modification No.: 089-21470-00227, issued on March 17, 2006;
Second Administrative Amendment No.: 089-23331-00227, issued on October 12, 2006; and
Third Administrative Amendment No. 089-24393-00227, issued on March 27, 2007.

Third Significant Permit Modification No.: 089-25143-00227	
Original signed by: Donald F. Robin, Section Chief Permits Branch Office of Air Quality	Issuance Date: April 28, 2008 Expiration Date: March 19, 2009

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Quarterly Deviation and Compliance Monitoring Report

SECTION A

SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary chlorinated paraffin manufacturing plant.

Source Address:	3000 Sheffield Avenue, Hammond, IN 46327
Mailing Address:	3000 Sheffield Avenue, Hammond, IN 46327
SIC Code:	2899
County Location:	Lake
Source Location Status:	Nonattainment for 8-hour ozone Nonattainment for PM2.5 Attainment for all other criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules Major Source, under Emission Offset Rules 1 of 28 Source Categories Major Source, Section 112 of the Clean Air Act

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

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

SECTION D.1

(a) Group of Boilers

- (1) One (1) Cleaver-Brooks natural gas fired boiler, Model CB-300HP, identified as B-4, constructed in 1974, rated at 12.55 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3401.
- (2) One (1) Cleaver-Brooks natural gas fired boiler, Model CB-200-500, identified as B-5, constructed in 1980, rated at 20.92 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3402.
- (3) One (1) Superior–Mohawk natural gas fired boiler, identified as B-6, constructed in 1988, rated at 20 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3403.

SECTION D.2

Chlorination system

with a maximum rated capacity of 3,000 pounds per hour of chlorine feed to produce short to long chain chlorination paraffins, olefins, waxes, polybutene, and 4,821 pounds per hour of muriatic acid. The chlorination system consists of the following systems:

(b) The system consisting of:

- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), TR-2003 (constructed before 1976), TR-2004 (constructed before 1976), TR-2005 (constructed before 1976), TR-2006 (constructed before 1976), TR-2007

(constructed in 1977), TR-2008 (constructed in 1977), TR-2010 (constructed in 1983), and TR-2014 (constructed in 1990), with a maximum capacity of 2,000 gallons each;

- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), TR-2009 (constructed in 1982), TR-2015 (constructed in 1990), TR-2016 (constructed in 1990), and TR-2017 (constructed in 1993), with a maximum capacity of 4,000 gallons each;
- (3) One (1) sulfur monochloride tank, identified as TS-1058, constructed in 1981, with a maximum capacity of 5,470 gallons;
- (4) One (1) acid tower condensate neutralization tank, identified as TP-2030, constructed before 1976, with a maximum capacity of 500 gallons;
- (5) Two (2) chlorine railcar track spots, identified as RC-0101 and RC-0201, constructed before 1976, with a maximum capacity of 1 railcar (containing at most 180,600 pounds) each;
- (6) One (1) acid tower, identified as CB-2060, constructed before 1976, with a maximum capacity of 4,800 lb/hr muriatic acid;
- (7) One (1) tower product acid tank, identified as TP-2033, constructed before 1976, with a maximum capacity of 560-gallons;
- (8) One (1) tower water feed tank, identified as TP-2060 (constructed in 1996), with a maximum capacity of 560-gallons; and
- (9) Two (2) chlorine vaporizers, identified as XV-2050 and XV-2051, constructed before 1976, and with a maximum feed capacity of 3,000 lb/hr chlorine combined;

all controlled by seven (7) scrubbers, identified as TP-2061 (constructed before 1976), TP-2062 (constructed before 1976), TP-2063 (constructed before 1976), TP-2064 (constructed before 1976), TP-2065 (constructed in 1977), TP-2066 (constructed in 1977), and TP-2067 (constructed in 1995), and exhausting at seven (7) stacks, identified as Stacks TP-2061 to 2067.

(c) The system consisting of:

- (1) Three (3) muriatic acid tanks, identified as TS-1090 (constructed in 1979), TS-1091 (constructed in 1980), and TS-1093 (constructed in 2000), with a maximum capacity of 16,000, 14,900 and 16,000 gallons, respectively;
- (2) Two (2) hypochlorite reduction tanks, identified as TP-3494, and TP-3495 (constructed in 1993), with a maximum capacity of 6,250 gallons each;
- (3) One (1) muriatic acid tank truck loading station, constructed in 1979, with a maximum capacity of 1 truck;

controlled by one (1) caustic scrubber identified as TP-1099 constructed in 1980 exhausting at one (1) stack, identified as Stack TP-1099.

(d) The system consisting of:

- (1) One (1) chlorinated product tank, identified as TS-2041, constructed before 1976, with a maximum capacity of 4,000 gallons;
- (2) Two (2) chlorinated product tanks, identified as TS-2043, and TS-2044, constructed before 1976, with a maximum capacity of 4,100 gallons each; and

- (3) One (1) chlorinated product-drumming tank, identified as TS-2012, constructed in 1978, with a maximum capacity of 1,500 gallons.

SECTION D.3 Sulfurization system

with a maximum rated capacity of 6,000 pounds per hour of sulfurized products consisting of the following equipment:

- (e) The system consisting of:
 - (1) Three (3) sulfurization reactors, identified as TR-2120, TR-2121, and TR-2123, constructed before 1976, with maximum capacity of 3,700, 3,700, and 7,500 gallons, respectively, controlled by two (2) caustic scrubbers operating in series, identified as TP-2162 and TP-2163, followed by an activated carbon system for odor management and exhausting at Stack TP-2163. One (1) reflux condenser associated with sulfurization reactor TR-2120.
 - (2) Five (5) blowing tanks, identified as TP-2150 (constructed in 1977), TP-2151 (constructed in 1977), TP-2152 (constructed in 1977), TP-2153 (constructed in 1977), and TP-2154 (constructed in 1997), with maximum capacity of 11,000, 9,650, 11,500, 4,000, and 7,600 gallons, respectively, venting to a blowing tank knockout tank identified as TP-2159, controlled by two (2) caustic scrubbers, identified as TP-2162 and TP-2163 and exhausting at Stack TP-2163.
 - (3) One (1) knockout storage tank, identified as TS-2164, constructed in 1976, with a maximum capacity of 1,500 gallons, exhausted to a containment scrubber, identified as TP-2167, constructed in 1995, and exhausting at Stack TP-2167.
 - (4) One (1) scrubber liquor storage tank, identified as TS-1029, constructed in 1979, with a maximum capacity of 15,880 gallons.
 - (5) Two (2) molten sulfur storage tanks, identified as TS-2190 and TP-2190, constructed in 1976.
 - (6) One (1) filter feed tank, maximum capacity of 3,000 gallons, identified as TP-2207, constructed prior to 1976.

SECTION D.4 Hi-Temp System

with a maximum rated capacity of 4,200 pounds per hour of hi-temp products consisting of the following equipment:

- (f) The system consisting of:
 - (1) One (1) reactor, identified as TR-2620, constructed in 1989, with a maximum capacity of 4,000 gallons;
 - (2) Two (2) recovered methanol tanks, identified as TS-2602 and TS-2603, constructed in 1989, with maximum capacity of 2,500, and 4,000 gallons, respectively;
 - (3) One (1) sludge tank, identified as TP-2604, constructed in 1989, with a maximum capacity of 750 gallons, equipped with a sludge drumming operation followed by an activated carbon filter for odor management;
 - (4) One (1) scrubber liquor tank, identified as TS-2610, constructed in 2001, with a maximum capacity of 10,000 gallons; and

- (5) One (1) intermediate holding tank, identified as TP-2601, constructed in 1989, with a maximum capacity of 4,550 gallons;

all controlled by two (2) caustic scrubbers identified as TP-2624 and TP-2626, constructed in 1989; and one flare, identified as GB-2627, constructed in 1990, in series, and exhausting at one (1) stack, identified as Stack GB-2627.

- (g) One (1) scrubber liquor truck loading station, constructed in 1989, controlled by a carbon drum, identified as TF-2610 constructed in 2001.
- (h) One (1) pre-coat tank, identified as TP-2722, constructed in 1995, with a maximum capacity of 1,300 gallons.
- (i) One (1) filter feed tank, identified as TP-2720, constructed in 1995, with a maximum capacity of 5,000 gallons, controlled by a carbon drum, identified as TF-2728 and exhausting at a stack identified as Stack TP-2728.
- (j) One (1) filtrate tank, identified as TP-2730, constructed in 1995, with a maximum capacity of 5,000 gallons.
- (k) One (1) filter, identified as GF-2724, constructed in 1995, with a maximum capacity of 69 cubic feet of filter cake, and one (1) filter, identified as GF-2734, constructed in 2005, with a maximum capacity of 41 cubic feet of filter cake, both controlled by a carbon drum, identified as TF-2728, exhausting at stack TF-2728.
- (l) One (1) reactor, constructed in 1993, identified as TP-2553, with a maximum capacity of 2,100 gallons, controlled by scrubber TP-2589.
- (m) One (1) filter feed tank, constructed in 1993, identified as TP-2554, with a maximum capacity of 2,100 gallons.
- (n) Three (3) wash water tanks, constructed in 1996, identified as TP-2556, TP-2557 and TP-2558, each with a maximum capacity of 700 gallons.
- (o) One (1) reactor, constructed in 1990, identified as TR-2630, with a maximum capacity of 4,000 gallons.
- (p) One (1) reactor, constructed in 2005, identified as TR-2541, with a maximum capacity of 3,500 gallons, controlled by scrubber TP-2589.

SECTION D.5

Fuel Additive system

with a maximum rated capacity of 12,000 pounds per hour of fuel additives (prior to blending) consisting of the following equipment:

- (q) The system consisting of:
- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), TR-2003 (constructed before 1976), TR-2004 (constructed before 1976), TR-2005 (constructed before 1976), TR-2006 (constructed before 1976), TR-2007 (constructed in 1977), TR-2008 (constructed in 1977), TR-2010 (constructed in 1983), and TR-2014 (constructed in 1990), with a maximum capacity of 2,000 gallons each;
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), TR-2009 (constructed in 1982), TR-2015 (constructed in 1990), TR-2016 (constructed in 1990), and TR-2017 (constructed in 1993), with a maximum capacity of 4,000 gallons each;

- (3) One (1) EDA recycle tank, identified as TP-2052 (constructed in 1985), with a maximum capacity of 1,700 gallons;

controlled by a scrubber identified as TP-2072 (constructed in 1985), and exhausting at a stack identified as Stack TP-2072.

- (r) One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as TF-1027, and exhausting at stack identified as Stack TF-1027.

- (s) One (1) continuous wash system consisting of tanks TP-2339, TP-2328, TP-2334, TP-2333, TP-2331, TP-2330, TP-2340, TP-2349, TP-2348, one (1) 300 gallon feed tank identified as TP-2329, one (1) butanol recovery column identified as CS-2329, and one stripping column identified as CD-2319, controlled by one (1) vent condenser identified as XT-2313 and exhausting to stack XT-2313.

One (1) continuous wash system consisting of tanks TP-2350, TP-2359, TP-2353, TP-2354, TP-2351, TP-2352, TP-2355, TP-2356, TP-2357, one (1) butanol water feed tank identified as TP-2358, one (1) butanol recovery column identified as CS-2368, and one stripping column identified as CD-2350, controlled by one (1) vent condenser identified as XT-2350 and exhausting to stack XT-2350.

- (t) Four (4) product rundown tanks, identified as TP-1035, TP-1036 (both constructed in 1985), TP-2360, and TP-2361 (both constructed in 1990), maximum capacity of 6,800 gallons each.

- (u) Three (3) fuel additive blending tanks, identified as TP-1030, TP-1031, and TP-1032 (all constructed in 1985), with maximum capacities of 11,740, 15,220, and 11,740 gallons, respectively.

SECTION D.6 Miscellaneous system

with a maximum rated capacity of 3,000 pounds per hour consisting of the following equipment:

- (v) Five reactors, identified as TR-2224 (constructed in 1980), TR-2225 (constructed before 1976), TR-2226 (constructed before 1976), TR-2227 (constructed before 1976), and TR-2228 (constructed before 1976), maximum capacity of 5,500, 2,000, 7,000, 400, and 7,500 gallons, respectively; controlled by two (2) wet scrubbers, identified as PE-2228, and TP-2332, and exhausting at stacks identified as Stack PE-2228, and Stack TP-2332.
- (w) Two (2) reactors, identified as TR-2329 (constructed in 1986), and TR-2322 (constructed in 1984), maximum capacity of 1,500, and 2,000 gallons, respectively.

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

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

SECTION D.7 VOC STORAGE TANKS

- (x) Storage tanks emitting less than one (1) ton per year collectively of a combination of HAPs and less than fifteen (15) pounds per day of VOC. [326 IAC 12, and 40 CFR 60.112b(a)]
- (1) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1001, constructed in 1997.
- (2) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1002, constructed in 1997.

- (3) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1003, constructed in 1993.
- (4) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1004, constructed in 1978.
- (5) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1005, constructed in 1978.
- (6) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1006, constructed in 1978.
- (7) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1007, constructed in 1978.
- (8) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1008, constructed in 1978.
- (9) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1009, constructed in 1978.
- (10) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1010, constructed in 1978.
- (11) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1011, constructed in 1978.
- (12) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1012, constructed in 1978.
- (13) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1013, constructed in 1978.
- (14) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1014, constructed in 1978.
- (15) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1015, constructed in 1987.
- (16) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1016, constructed in 1978.
- (17) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1017, constructed in 1978.
- (18) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1018, constructed in 1978.
- (19) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1019, constructed in 1996, exhausting to a scrubber identified as TP-1099.
- (20) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1020, constructed in 1997.
- (21) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1021, constructed in 1997.
- (22) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1022, constructed in 1996.

- (23) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1023, constructed in 1996.
- (24) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1024, constructed in 1997.
- (25) One (1) storage tank, maximum capacity of 28,760 gallons, identified as TS-1026, constructed in 1980.
- (26) One (1) storage tank, maximum capacity of 11,075 gallons, identified as TS-1028, constructed in 1980.
- (27) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1033, constructed in 1986.
- (28) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1039, constructed in 1987.
- (29) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1040, constructed in 1987.
- (30) One (1) storage tank, maximum capacity of 15,540 gallons, identified as TS-1042, constructed in 1989.
- (31) One (1) storage or blend tank, maximum capacity of 14,900 gallons, identified as TS-1043, constructed in 1990.
- (32) One (1) wax storage tank, maximum capacity of 20,390 gallons, identified as TS-1056, constructed in 1978.
- (33) One (1) storage tank, maximum capacity of 20,390 gallons, identified as TS-1057, constructed in 1978.
- (34) One (1) storage tank, maximum capacity of 4,010 gallons, identified as TS-1081, constructed in 1989.
- (35) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1082, constructed in 1989.
- (36) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2160, constructed before 1976.
- (37) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2163, constructed before 1976.
- (38) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2168, constructed before 1976.
- (39) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2169, constructed before 1976.
- (40) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2170, constructed before 1976.
- (41) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2178, constructed in 1998.

- (42) One (1) storage tank, maximum capacity of 2,600 gallons, identified as TS-2209, constructed before 1979.
- (43) One (1) storage tank, maximum capacity of 10,800 gallons, identified as TS-2218, constructed before 1979.
- (44) One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2252, constructed prior to 1976.
- (45) One (1) storage tank, maximum capacity of 6,760 gallons, identified as TS-2253, constructed before 1976.
- (46) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2255, constructed before 1976.
- (47) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2264, constructed before 1979.
- (48) One (1) storage tank, maximum capacity of 31,070 gallons, identified as TS-2265, constructed before 1979.
- (49) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2271, constructed in 2005.
- (50) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2272, constructed in 2005.
- (51) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2275, constructed before 1979.
- (52) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2276, constructed before 1979.
- (53) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2277, constructed before 1976.
- (54) One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2279, constructed before 1976.
- (55) One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2280, constructed before 1976.
- (56) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2605, constructed in 1990.
- (57) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2315, constructed in 1990.
- (58) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2362, constructed in 1990.
- (59) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2364, constructed in 1990.
- (60) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2365, constructed in 1990.
- (61) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2367, constructed in 1990.

- (62) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2606, constructed in 1989.
- (63) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2611, constructed in 1990.
- (64) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2612, constructed in 1990.
- (65) One (1) storage tank, maximum capacity of 30,080 gallons, identified as TS-2613, constructed in 1990.
- (66) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.
- (67) One (1) storage tank, maximum capacity of 16,920 gallons, identified as TS-2619, constructed in 1990.
- (68) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2550, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.
- (69) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2551, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.
- (70) One (1) storage tank, maximum capacity of 2,970 gallons, identified as TP-2617, constructed in 1990.

SECTION D.8

5.7 MMBtu/hr Boiler

- (y) One (1) natural gas fired boiler, identified as boiler no. B-3, constructed in 1974, rated at 5.7 MMBtu per hour, exhausting at one (1) stack, identified as GB-3404.

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, T089-7797-00227, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ and HDEM, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-7-7]

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

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 and HDEM, within a reasonable time, any information that IDEM, OAQ and HDEM 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 and HDEM 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 the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

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

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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 and HDEM, 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 and HDEM may require to determine the compliance status of the source.

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

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

- (a) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, for the source as described in 326 IAC 1-6-3. At a minimum, the PMPs shall include:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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, MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room – 304
Hammond, Indiana 46320

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

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

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

action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and HDEM and Northwest Regional Office 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: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

Hammond Department of Environmental Management phone:
(219) 853-6306; fax: (219) 853-6343
Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267.

- (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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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 and HDEM 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 and HDEM 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 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, or HDEM 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, or HDEM 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, or HDEM has issued the modification. [326 IAC 2-7-12(b)(8)]

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T089-7797-00227 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

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

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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

applicable requirement and does not need to be included in this report.

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

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ and HDEM 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 and HDEM 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 and HDEM at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ and HDEM may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and HDEM 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

and

Hammond Department of Environmental Management

5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

- (b) A timely renewal application is one that is:
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and HDEM on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ and HDEM 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 and HDEM any additional information identified as being needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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)]

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

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

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

- (a) The Permittee may make any change or changes at the source that are described in

326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:

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

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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 and HDEM 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.21 Source Modification Requirement [326 IAC 2-7-10.5][326 IAC 2-2-2][326 IAC 2-3-2]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-3 (for sources located in NA areas).

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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, and HDEM or an authorized representative to perform the following:

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

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

application shall be submitted to:

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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

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

B.24 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ and HDEM 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 and HDEM the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Advanced Source Modification Approval [326 IAC 2-7-5(16)][326 IAC 2-7-10.5]

- (a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

B.26 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.

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.

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 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), and 326 IAC 1-7-4(a), (b), and (d) are not federally enforceable.

C.6 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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

C.7 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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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 and HDEM 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 and HDEM not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ and HDEM if the Permittee submits to IDEM, OAQ and HDEM, 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.8 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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

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

C.11 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

Corrective Actions and Response Steps [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]

(Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on August 29, 1996.
- (b) If the ERP is disapproved by IDEM, OAQ, and HDEM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (c) Upon direct notification by IDEM, OAQ, and HDEM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]

C.13 Risk Management Plan [326 IAC 2-7-5(12)][40 CFR 68]

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

- (a) A Risk Management Plan was prepared as required by 40 CFR 68 and submitted to U.S. EPA. U.S. EPA received the RMP on June 21, 1999.

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

- (a) Upon detecting an excursion or exceedance, the Permittee shall restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Corrective actions may include, but are not limited to, the following:

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

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

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

The response action documents submitted pursuant to this condition do require the certification by the "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]

- (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 purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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

- (c) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and HDEM on or before the date it is due.

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

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or HDEM makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or HDEM within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) If there is a reasonable possibility that a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:

- (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:
 - (A) A description of the project.
 - (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.
 - (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:
 - (i) Baseline actual emissions;
 - (ii) Projected actual emissions;
 - (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

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

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

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320
- (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 and HDEM 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, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and HDEM:
 - (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and
 - (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).
- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:
 - (1) The name, address, and telephone number of the major stationary source.
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).
 - (4) Any other information that the Permittee deems fit to include in this report.

Reports required in this part shall be submitted to:

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and HDEM. The general public may request this information from the IDEM, OAQ and HDEM under 326 IAC 17.1.

Stratospheric Ozone Protection

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

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

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

SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) Group of Boilers
 - (1) One (1) Cleaver-Brooks natural gas fired boiler, Model CB-300HP, identified as B-4, constructed in 1974, rated at 12.55 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3401.
 - (2) One (1) Cleaver-Brooks natural gas fired boiler, Model CB-200-500, identified as B-5, constructed in 1980, rated at 20.92 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3402.
 - (3) One (1) Superior–Mohawk natural gas fired boiler, identified as B-6, constructed in 1988, rated at 20 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3403.

(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 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2][326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6.8-2-19 (Lake County PM₁₀ emission requirements) PM₁₀ emissions from the Cleaver-Brooks boiler B-4 (Stack GB-3401) shall be limited to seven-thousandths (0.007) pounds per million Btu, and 0.09 pounds per hour.
- (b) Pursuant to 326 IAC 6.8-2-19 (Lake County PM₁₀ emission requirements) PM₁₀ emissions from the Cleaver-Brooks boiler B-5 (Stack GB-3402) shall be limited to seven-thousandths (0.007) pounds per million Btu, and 0.14 pounds per hour.
- (c) Pursuant to 326 IAC 6-2-4 (Emission limitations for facilities specified in 326 IAC 6-2-1(d)) the particulate emissions from the combustion of natural gas from boiler B-6 (Stack GB-3403) shall be limited to 0.387 pounds per million Btu, and 7.44 pounds per hour.

The above limit is established by the following equation:

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

Where:

Pt	=	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. The maximum operating capacity rating is defined as the maximum capacity at which the facility is operated or the nameplate capacity, whichever is specified in the facility's permit application, except when some lower capacity is contained in the facility's operation permit; in which case, the capacity specified in the operation permit shall be used.

SECTION D.2

FACILITY OPERATION CONDITIONS

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

Chlorination process with a maximum rated capacity of 3,000 pounds per hour of chlorine feed to produce short to long chain chlorination paraffins, olefins, waxes, polybutene, and 4,821 pounds per hour of muriatic acid. The chlorination system consists of the following systems:

(b) The system consisting of:

- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), TR-2003 (constructed before 1976), TR-2004 (constructed before 1976), TR-2005 (constructed before 1976), TR-2006 (constructed before 1976), TR-2007 (constructed in 1977), TR-2008 (constructed in 1977), TR-2010 (constructed in 1983), and TR-2014 (constructed in 1990), with a maximum capacity of 2,000 gallons each;
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), TR-2009 (constructed in 1982), TR-2015 (constructed in 1990), TR-2016 (constructed in 1990), and TR-2017 (constructed in 1993), with a maximum capacity of 4,000 gallons each;
- (3) One (1) sulfur monochloride tank, identified as TS-1058, constructed in 1981, with a maximum capacity of 5,470 gallons;
- (4) One (1) acid tower condensate neutralization tank, identified as TP-2030, constructed before 1976, with a maximum capacity of 500 gallons;
- (5) Two (2) chlorine railcar track spots, identified as RC-0101 and RC-0201, constructed before 1976, with a maximum capacity of 1 railcar (containing at most 180,600 pounds) each;
- (6) One (1) acid tower, identified as CB-2060, constructed before 1976, with a maximum capacity of 4,800 lb/hr muriatic acid;
- (7) One (1) tower product acid tank, identified as TP-2033, constructed before 1976, with a maximum capacity of 560-gallons;
- (8) One (1) tower water feed tank, identified as TP-2060 (constructed in 1996), with a maximum capacity of 560-gallons; and
- (9) Two (2) chlorine vaporizers, identified as XV-2050 and XV-2051, constructed before 1976, and with a maximum feed capacity of 3,000 lb/hr chlorine combined;

all controlled by seven (7) scrubbers, identified as TP-2061 (constructed before 1976), TP-2062 (constructed before 1976), TP-2063 (constructed before 1976), TP-2064 (constructed before 1976), TP-2065 (constructed in 1977), TP-2066 (constructed in 1977), and TP-2067 (constructed in 1995), and exhausting at seven (7) stacks, identified as Stacks TP-2061 to 2067.

(c) The system consisting of:

- (1) Three (3) muriatic acid tanks, identified as TS-1090 (constructed in 1979), TS-1091 (constructed in 1980), and TS-1093 (constructed in 2000), with a maximum capacity of 16,000, 14,900 and 16,000 gallons, respectively;

- (2) Two (2) hypochlorite reduction tanks, identified as TP-3494, and TP-3495 (constructed in 1993), with a maximum capacity of 6,250 gallons each;
- (3) One (1) muriatic acid tank truck loading station, constructed in 1979, with a maximum capacity of 1 truck;

controlled by one (1) caustic scrubber identified as TP-1099 constructed in 1980 exhausting at one (1) stack, identified as Stack TP-1099.

(d) The system consisting of:

- (1) One (1) chlorinated product tank, identified as TS-2041, constructed before 1976, with a maximum capacity of 4,000 gallons;
- (2) Two (2) chlorinated product tanks, identified as TS-2043, and TS-2044, constructed before 1976, with a maximum capacity of 4,100 gallons each; and
- (3) One (1) chlorinated product-drumming tank, identified as TS-2012, constructed in 1978, with a maximum capacity of 1,500 gallons.

(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 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2][326 IAC 6.8-1-5]

Pursuant to 326 IAC 6.8-2-19, the allowable PM₁₀ emission rate from the Chlorination process shall not exceed 0.001 pounds per ton, and 0.003 pounds per hour. Pursuant to 326 IAC 6.8-1-5(d), the Chlorination process shall comply with both limits.

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

Pursuant to 326 IAC 8-9, the Permittee shall maintain a record and submit to Compliance Branch, OAQ, IDEM a report containing the following information:

- (a) The vessel identification number
- (b) The vessels dimension
- (c) The vessel capacity

for each of the following vessels.

- (1) TS-2012
- (2) TS-2041
- (3) TS-2043
- (4) TS-2044

Compliance Determination Requirements

D.2.3 Scrubber Operation Requirements

The scrubber control system shall be in operation at all times when the chlorination system is in operation.

D.2.4 Hydrochloric Acid (HCl) and Chlorine (Cl₂)

Caustic Scrubber: The caustic strength operations limit shall be no less than 4%. If a representative sample taken during any 8-hour shift shows a caustic percent reading of 4% or less, then the Permittee shall take one of the following steps:

- (1) Fresh caustic will be added to the scrubber; or
- (2) The caustic solution will be changed within 8 hours of test reading; or
- (3) The process will be vented to the backup scrubbers; or
- (4) The process shall be shutdown and the caustic solution changed before the process is started up.

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

D.2.5 Parametric Monitoring

The Permittee shall test the concentration (% by weight) of caustic in the chlorination scrubbers once per 8-hour shift.

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

D.2.6 Record Keeping Requirements

- (a) To document compliance with Condition D.2.5, the Permittee shall maintain records once per shift of the caustic concentration in the chlorination scrubbers.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3

FACILITY OPERATION CONDITIONS

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

Sulfurization process - with a maximum rated capacity of 6,000 pounds per hour of sulfurized products consisting of the following equipment:

- (e) The system consisting of:
 - (1) Three (3) sulfurization reactors, identified as TR-2120, TR-2121, and TR-2123, constructed before 1976, with maximum capacity of 3,700, 3,700, and 7,500 gallons, respectively, controlled by two (2) caustic scrubbers operating in series, identified as TP-2162 and TP-2163, followed by an activated carbon system for odor management and exhausting at Stack TP-2163. One (1) reflux condenser associated with sulfurization reactor TR-2120.
 - (2) Five (5) blowing tanks, identified as TP-2150 (constructed in 1977), TP-2151 (constructed in 1977), TP-2152 (constructed in 1977), TP-2153 (constructed in 1977), and TP-2154 (constructed in 1997), with maximum capacity of 11,000, 9,650, 11,500, 4,000, and 7,600 gallons, respectively, venting to a blowing tank knockout tank identified as TP-2159, controlled by two (2) caustic scrubbers, identified as TP-2162 and TP-2163 and exhausting at Stack TP-2163.
 - (3) One (1) knockout storage tank, identified as TS-2164, constructed in 1976, with a maximum capacity of 1,500 gallons, exhausted to a containment scrubber, identified as TP-2167, constructed in 1995, and exhausting at Stack TP-2167.
 - (4) One (1) scrubber liquor storage tank, identified as TS-1029, constructed in 1979, with a maximum capacity of 15,880 gallons.
 - (5) Two (2) molten sulfur storage tanks, identified as TS-2190 and TP-2190, constructed in 1976.
 - (6) One (1) filter feed tank, maximum capacity of 3,000 gallons, identified as TP-2207, constructed prior to 1976.

(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 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2][326 IAC 6.8-1-5]

Pursuant to 326 IAC 6.8-2-19, the allowable PM₁₀ emission rate from the Sulfurization process shall not exceed 0.157 pounds per ton, and 0.23 pounds per hour. Pursuant to 326 IAC 6.8-1-5(d), the Sulfurization process shall comply with both limits.

D.3.2 PSD Minor Limit and Emission Offset Minor Limit [326 IAC 2-2][326 IAC 2-3]

- (a) The amount of sulfur used by the sulfurization process shall be limited to less than 10,335 tons per 12 consecutive month period with compliance determined at the end of each month. This usage limit and the scrubber's H₂S control efficiency of 99.9 percent is required to limit the hydrogen sulfide (H₂S) emissions to less than 10 tons per twelve (12) consecutive month period. If the monitoring data is not available or indicates the scrubber is not achieving this control efficiency, the Permittee shall use a control efficiency of zero percent (0%). Compliance with this limit makes the rule 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.

- (b) The amount of sulfurized products produced by the sulfurization process shall be limited to less than 26,500 tons per 12 consecutive month period with compliance determined at the end of each month. This usage limit is required to limit the potential to emit of volatile organic compounds (VOC) emissions to less than 10 tons (Based on 0.000368 pounds of VOC per pound of finished sulfurization products) per twelve (12) consecutive month period. Compliance with this limit makes the rule 326 IAC 2-3 (Emission Offset) not applicable.

D.3.3 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9, the Permittee shall maintain a record and submit to Compliance Branch, OAQ, IDEM a report containing the following information for VOC storage tank TS-1029:

- (a) The vessel identification number
- (b) The vessels dimension
- (c) The vessel capacity

Testing and Monitoring Requirements [326 IAC 2-7-6 (1)][326 IAC 2-7-5 (1)]

D.3.4 Scrubber Operation Requirements [326 IAC 2-7-10.5]

The Permittee shall operate the scrubber control system, at all times the sulfurization system is in operation.

D.3.5 Hydrogen Sulfide (H₂S) [326 IAC 2-7-10.5]

- (a) The sulfurization scrubber for H₂S controls shall be in operation and control H₂S emissions from the sulfurization process at all times the sulfurization process is in operation.
- (b) Caustic Scrubber - First Stage of Series: The caustic strength operations limit shall be no less than 1%. If a representative sample taken during any 8-hour shift shows a caustic percent reading of 1% or less, then the Permittee shall take one of the following steps:
 - (1) The caustic solution will be changed within 8 hours of test reading; or
 - (2) The process shall be shutdown and the caustic solution changed before the process is started up.
- (c) Caustic Scrubber - Second Stage of Series: The caustic strength at the second stage operations limit shall be no less than 10%.
- (d) The on-site Quality Control laboratory shall randomly test one of the 5-day split samples retained per week, unless the process is down for five consecutive days to verify the accuracy of operations data. Enough sample of the randomly tested sample shall also be retained so that an analysis can be run if so requested by the IDEM, OAQ or HDEM within 5 day holding period. Upon request of IDEM, OAQ or HDEM, a sample of the scrubber caustic solution shall be provided and/or the IDEM, OAQ or HDEM may witness a sample collection and test of the scrubber solution.

D.3.6 Testing Requirements [326 IAC 2-7-6(1), (6)][326 IAC 2-1.1-11]

Within one hundred and eighty (180) days after initial startup, the Permittee shall conduct a performance test to verify H₂S control efficiency as per condition D.3.2 (a) and establish the caustic concentration (% by weight), hourly average operating temperature and minimum liquid circulation volume in the second stage sulfurization scrubber using methods as approved by the Commissioner. This test shall be repeated at least once every five years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with Section C - Performance Testing.

Monitoring Requirements

D.3.7 Parametric Monitoring

- (a) The Permittee shall calibrate, maintain, and operate a continuous monitoring system on the second stage sulfurization scrubber for measuring hourly average operating temperature. From the date of issuance of this permit until the approved stack test results are available the hourly average temperature of the scrubber shall not exceed 170°F.
- (b)
 - (1) The Permittee shall monitor the concentration (% by weight) of caustic once per shift and the scrubber liquid flow rate in second stage sulfurization scrubber once per hour. From the date of issuance of this permit until the approved stack test results are available the concentration (% by weight) of caustic and the scrubber liquid flow rate of the scrubber shall not be lower than 10% and 80 gallons per minute, respectively.
 - (2) The Permittee shall test the concentration (% by weight) of caustic in first stage sulfurization scrubber once per shift.
- (c) The Permittee shall monitor the volume and caustic concentration charged to the scrubbers during the recharge operations once per day.
- (d) Split samples taken from the second stage scrubber shall be maintained at the facility for the most current five day calendar period.

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

D.3.8 Record Keeping Requirements

- (a) The Permittee shall maintain the following records in accordance with Section C - General Record Keeping Requirements, of this permit:
 - (1) The amount of sulfur used and sulfurization products manufactured for each month.
 - (2) The hourly average operating temperature of the second stage of the scrubber.
 - (3) Records of the per shift caustic concentration and per hour liquid flow rate in second stage of the scrubber.
 - (4) Per shift records of the caustic concentration in the first stage of the scrubber.
 - (5) Daily volume and caustic concentration charged to the scrubbers during recharge.
- (b) Pursuant to 326 IAC 8-9-6, the Permittee shall keep readily accessible records of each storage tank listed in Condition D.3.3 for the life of the tank.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.9 Reporting Requirements

- (a) The Permittee shall submit a quarterly report of data required by condition D.3.2 (a) and (b) within 30 days following the reporting period using the reporting forms located at the end of this permit, or their equivalent;
- (b) The Permittee shall submit periodic reports to the addresses listed in Section C – General Reporting Requirements, of this permit. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

SECTION D.4

FACILITY OPERATION CONDITIONS

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

Hi-Temp Process - with a maximum rated capacity of 4,200 pounds per hour of hi-temp products consisting of the following equipment:

- (f) The system consisting of:
 - (1) One (1) reactor, identified as TR-2620, constructed in 1989, with a maximum capacity of 4,000 gallons;
 - (2) Two (2) recovered methanol tanks, identified as TS-2602 and TS-2603, constructed in 1989, with maximum capacity of 2,500, and 4,000 gallons, respectively;
 - (3) One (1) sludge tank, identified as TP-2604, constructed in 1989, with a maximum capacity of 750 gallons, equipped with a sludge drumming operation followed by an activated carbon filter for odor management;
 - (4) One (1) scrubber liquor tank, identified as TS-2610, constructed in 2001, with a maximum capacity of 10,000 gallons; and
 - (5) One (1) intermediate holding tank, identified as TP-2601, constructed in 1989, with a maximum capacity of 4,550 gallons;

all controlled by two (2) caustic scrubbers identified as TP-2624 and TP-2626, constructed in 1989; and one flare, identified as GB-2627, constructed in 1990, in series, and exhausting at one (1) stack, identified as Stack GB-2627.
- (g) One (1) scrubber liquor truck loading station, constructed in 1989, controlled by a carbon drum, identified as TF-2610 constructed in 2001.
- (h) One (1) pre-coat tank, identified as TP-2722, constructed in 1995, with a maximum capacity of 1,300 gallons.
- (i) One (1) filter feed tank, identified as TP-2720, constructed in 1995, with a maximum capacity of 5,000 gallons, controlled by a carbon drum, identified as TF-2728 and exhausting at a stack identified as Stack TP-2728.
- (j) One (1) filtrate tank, identified as TP-2730, constructed in 1995, with a maximum capacity of 5,000 gallons.
- (k) One (1) filter, identified as GF-2724, constructed in 1995, with a maximum capacity of 69 cubic feet of filter cake, and one (1) filter, identified as GF-2734, constructed in 2005, with a maximum capacity of 41 cubic feet of filter cake, both controlled by a carbon drum, identified as TF-2728, exhausting at stack TF-2728.
- (l) One (1) reactor, constructed in 1993, identified as TP-2553, with a maximum capacity of 2,100 gallons, controlled by scrubber TP-2589.
- (m) One (1) filter feed tank, constructed in 1993, identified as TP-2554, with a maximum capacity of 2,100 gallons.
- (n) Three (3) wash water tanks, constructed in 1996, identified as TP-2556, TP-2557 and TP-2558, each with a maximum capacity of 700 gallons.

- (o) One (1) reactor, constructed in 1990, identified as TR-2630, with a maximum capacity of 4,000 gallons.
- (p) One (1) reactor, constructed in 2005, identified as TR-2541, with a maximum capacity of 3,500 gallons, controlled by scrubber TP-2589.

(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.4.1 Particulate Emissions Limitations, Work Practices and Control Technologies- Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Hi-Temp reactors shall be limited as follows:

Process/Facility	Reactors	Process Weight Rate (tons/hr)	Particulate Emission Limit (lbs/hr)
Hi-Temp Process	TR-2620	0.187	1.33
	Filtration	0.234	1.55

The pounds per hour limitation was calculated using the following equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

SECTION D.5

FACILITY OPERATION CONDITIONS

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

Fuel Additive Process - with a maximum rated capacity of 12,000 pounds per hour of fuel additives (prior to blending) consisting of the following equipment:

- (q) The system consisting of:
- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), TR-2003 (constructed before 1976), TR-2004 (constructed before 1976), TR-2005 (constructed before 1976), TR-2006 (constructed before 1976), TR-2007 (constructed in 1977), TR-2008 (constructed in 1977), TR-2010 (constructed in 1983), and TR-2014 (constructed in 1990), with a maximum capacity of 2,000 gallons each;
 - (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), TR-2009 (constructed in 1982), TR-2015 (constructed in 1990), TR-2016 (constructed in 1990), and TR-2017 (constructed in 1993), with a maximum capacity of 4,000 gallons each;
 - (3) One (1) EDA recycle tank, identified as TP-2052 (constructed in 1985), with a maximum capacity of 1,700 gallons;
- controlled by a scrubber identified as TP-2072 (constructed in 1985), and exhausting at a stack identified as Stack TP-2072.
- (r) One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as TF-1027, and exhausting at stack identified as Stack TF-1027.
- (s) One (1) continuous wash system consisting of tanks TP-2339, TP-2328, TP-2334, TP-2333, TP-2331, TP-2330, TP-2340, TP-2349, TP-2348, one (1) 300 gallon feed tank identified as TP-2329, one (1) butanol recovery column identified as CS-2329, and one stripping column identified as CD-2319, controlled by one (1) vent condenser identified as XT-2313 and exhausting to stack XT-2313.
- One (1) continuous wash system consisting of tanks TP-2350, TP-2359, TP-2353, TP-2354, TP-2351, TP-2352, TP-2355, TP-2356, TP-2357, one (1) butanol water feed tank identified as TP-2358, one (1) butanol recovery column identified as CS-2368, and one stripping column identified as CD-2350, controlled by one (1) vent condenser identified as XT-2350 and exhausting to stack XT-2350.
- (t) Four (4) product rundown tanks, identified as TP-1035, TP-1036 (both constructed in 1985), TP-2360, and TP-2361 (both constructed in 1990), maximum capacity of 6,800 gallons each.
- (u) Three (3) fuel additive blending tanks, identified as TP-1030, TP-1031, and TP-1032 (all constructed in 1985), with maximum capacities of 11,740, 15,220, and 11,740 gallons, respectively.

(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.5.1 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9, the Permittee shall maintain a record and submit to Compliance Branch, OAQ, IDEM a report containing the following information:

- (a) The vessel identification number
- (b) The vessels dimension
- (c) The vessel capacity

for each of the following vessels:

- (1) TP-1030
- (2) TP-1031
- (3) TP-1032

D.5.2 Record Keeping Requirements

Pursuant to 326 IAC 8-9-6, the Permittee shall keep readily accessible records of each storage tank listed in Condition D.5.1 for the life of the storage tank.

SECTION D.6 FACILITY OPERATION CONDITIONS

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

Miscellaneous Process - with a maximum rated capacity of 3,000 pounds per hour consisting of the following equipment:

- (v) Five reactors, identified as TR-2224 (constructed in 1980), TR-2225 (constructed before 1976), TR-2226 (constructed before 1976), TR-2227 (constructed before 1976), and TR-2228 (constructed before 1976), maximum capacity of 5,500, 2,000, 7,000, 400, and 7,500 gallons, respectively; controlled by two (2) wet scrubbers, identified as PE-2228, and TP-2332, and exhausting at stacks identified as Stack PE-2228, and Stack TP-2332.
- (w) Two (2) reactors, identified as TR-2329 (constructed in 1986), and TR-2322 (constructed in 1984), maximum capacity of 1,500, and 2,000 gallons, respectively.

(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.6.1 Particulate Emissions Limitations, Work Practices and Control Technologies- Manufacturing Processes [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rate from the Miscellaneous reactors shall be limited as follows:

Process/Facility	Reactors	Process Weight Rate (tons/hr)	Particulate Emission Limit (lbs/hr)
Miscellaneous Process	TR-2224	8.0	16.5
	TR-2225	2.909	8.38
	TR-2226	10.182	19.4
	TR-2227	0.582	2.85
	TR-2228	10.909	20.3
	TR-2329	2.182	6.92
	TR-2322	2.90	8.38

The pounds per hour limitation was calculated using the following equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour and
 P = process weight rate in tons per hour

SECTION D.7

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Specifically Regulated Insignificant Activities

- (x) Storage tanks emitting less than one (1) ton per year collectively of a combination of HAPs and less than fifteen (15) pounds per day of VOC. [326 IAC 12, and 40 CFR 60.112b(a)]
 - (1) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1001, constructed in 1997.
 - (2) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1002, constructed in 1997.
 - (3) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1003, constructed in 1993.
 - (4) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1004, constructed in 1978.
 - (5) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1005, constructed in 1978.
 - (6) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1006, constructed in 1978.
 - (7) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1007, constructed in 1978.
 - (8) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1008, constructed in 1978.
 - (9) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1009, constructed in 1978.
 - (10) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1010, constructed in 1978.
 - (11) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1011, constructed in 1978.
 - (12) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1012, constructed in 1978.
 - (13) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1013, constructed in 1978.
 - (14) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1014, constructed in 1978.
 - (15) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1015, constructed in 1987.
 - (16) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1016, constructed in 1978.

- (17) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1017, constructed in 1978.
- (18) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1018, constructed in 1978.
- (19) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1019, constructed in 1996, exhausting to a scrubber identified as TP-1099.
- (20) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1020, constructed in 1997.
- (21) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1021, constructed in 1997.
- (22) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1022, constructed in 1996.
- (23) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1023, constructed in 1996.
- (24) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1024, constructed in 1997.
- (25) One (1) storage tank, maximum capacity of 28,760 gallons, identified as TS-1026, constructed in 1980.
- (26) One (1) storage tank, maximum capacity of 11,075 gallons, identified as TS-1028, constructed in 1980.
- (27) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1033, constructed in 1986.
- (28) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1039, constructed in 1987.
- (29) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1040, constructed in 1987.
- (30) One (1) storage tank, maximum capacity of 15,540 gallons, identified as TS-1042, constructed in 1989.
- (31) One (1) storage or blend tank, maximum capacity of 14,900 gallons, identified as TS-1043, constructed in 1990.
- (32) One (1) wax storage tank, maximum capacity of 20,390 gallons, identified as TS-1056, constructed in 1978.
- (33) One (1) storage tank, maximum capacity of 20,390 gallons, identified as TS-1057, constructed in 1978.
- (34) One (1) storage tank, maximum capacity of 4,010 gallons, identified as TS-1081, constructed in 1989.
- (35) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1082, constructed in 1989.

- (36) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2160, constructed before 1976.
- (37) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2163, constructed before 1976.
- (38) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2168, constructed before 1976.
- (39) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2169, constructed before 1976.
- (40) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2170, constructed before 1976.
- (41) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2178, constructed in 1998.
- (42) One (1) storage tank, maximum capacity of 2,600 gallons, identified as TS-2209, constructed before 1979.
- (43) One (1) storage tank, maximum capacity of 10,800 gallons, identified as TS-2218, constructed before 1979.
- (44) One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2252, constructed prior to 1976.
- (45) One (1) storage tank, maximum capacity of 6,760 gallons, identified as TS-2253, constructed before 1976.
- (46) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2255, constructed before 1976.
- (47) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2264, constructed before 1979.
- (48) One (1) storage tank, maximum capacity of 31,070 gallons, identified as TS-2265, constructed before 1979.
- (49) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2271, constructed in 2005.
- (50) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2272, constructed in 2005.
- (51) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2275, constructed before 1979.
- (52) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2276, constructed before 1979.
- (53) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2277, constructed before 1976.
- (54) One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2279, constructed before 1976.

- (55) One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2280, constructed before 1976.
- (56) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2605, constructed in 1990.
- (57) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2315, constructed in 1990.
- (58) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2362, constructed in 1990.
- (59) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2364, constructed in 1990.
- (60) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2365, constructed in 1990.
- (61) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2367, constructed in 1990.
- (62) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2606, constructed in 1989.
- (63) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2611, constructed in 1990.
- (64) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2612, constructed in 1990.
- (65) One (1) storage tank, maximum capacity of 30,080 gallons, identified as TS-2613, constructed in 1990.
- (66) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.
- (67) One (1) storage tank, maximum capacity of 16,920 gallons, identified as TS-2619, constructed in 1990.
- (68) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2550, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.
- (69) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2551, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.
- (70) One (1) storage tank, maximum capacity of 2,970 gallons, identified as TP-2617, constructed in 1990.

(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.7.1 Volatile Organic Liquid Storage Vessels [326 IAC 12][40 CFR 60, Part Kb]

Pursuant to 40 CFR 60.116b, the Permittee shall keep readily accessible records showing the dimensions of the storage tanks and an analysis showing the capacities of the following storage tanks.

- (1) TS-1001
- (2) TS-1002
- (3) TS-1003
- (4) TS-1015
- (5) TS-1019
- (6) TS-1020
- (7) TS-1021
- (8) TS-1022
- (9) TS-1023
- (10) TS-1024
- (11) TS-2178
- (12) TS-2315
- (13) TS-2362
- (14) TS-2364
- (15) TS-2365
- (16) TS-2367
- (17) TS-2606
- (18) TS-2613

D.7.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9, the Permittee shall maintain a record and submit to Compliance Branch, OAQ, IDEM a report containing the following information:

- (a) The vessel identification number
- (b) The vessels dimension
- (c) The vessel capacity

for each of the following vessels.

- (1) TS-1004
- (2) TS-1005
- (3) TS-1006
- (4) TS-1007
- (5) TS-1008
- (6) TS-1009
- (7) TS-1010
- (8) TS-1011
- (9) TS-1012
- (10) TS-1013
- (11) TS-1014
- (12) TS-1016
- (13) TS-1017
- (14) TS-1018
- (15) TS-1026
- (16) TS-1028
- (17) TP-1033
- (18) TS-1039
- (19) TS-1040
- (20) TS-1042

- (21) TS-1043
- (22) TS-1056
- (23) TS-1057
- (24) TS-1081
- (25) TS-1082
- (26) TS-2160
- (27) TS-2163
- (28) TS-2168
- (29) TS-2169
- (30) TS-2170
- (31) TS-2209
- (32) TS-2218
- (33) TS-2252
- (34) TS-2253
- (35) TS-2255
- (36) TS-2264
- (37) TS-2265
- (38) TS-2271
- (39) TS-2272
- (40) TS-2275
- (41) TS-2276
- (42) TS-2277
- (43) TS-2279
- (44) TS-2280
- (45) TS-2605
- (46) TS-2611
- (47) TS-2612
- (48) TS-2618
- (49) TS-2619
- (50) TP-2550
- (51) TP-2551
- (52) TP-2617

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

D.7.3 Record Keeping Requirements

Pursuant to 40 CFR 60.116b and 326 IAC 8-9-6, the Permittee shall keep readily accessible records of each storage tank required by D.7.1 and D.7.2 for the life of the storage tanks.

SECTION D.8

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Specifically Regulated Insignificant Activities

Specifically regulated insignificant activities with emissions below significant thresholds:

- (y) One (1) natural gas fired boiler, identified as boiler no. B-3, constructed in 1974, rated at 5.7 MMBtu per hour, exhausting at one (1) stack, identified as GB-3404.

(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.8.1 Particulate Matter Limitation (PM₁₀) [326 IAC 6.8-2][326 IAC 6-2-4]

Pursuant to 326 IAC 6.8-2-19 (Lake County PM₁₀ emission requirements) PM₁₀ emissions from the Cleaver-Brooks boiler B-3 (Stack GB-3404) shall be limited to seven-thousandths (0.007) pounds per million Btu, and 0.07 pounds per hour.

SECTION E.1

FACILITY OPERATION CONDITIONS

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

Chlorination process with a maximum rated capacity of 3,000 pounds per hour of chlorine feed to produce short to long chain chlorination paraffins, olefins, waxes, polybutene, and 4,821 pounds per hour of muriatic acid. The chlorination system consists of the following systems:

(b) The system consisting of:

- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), TR-2003 (constructed before 1976), TR-2004 (constructed before 1976), TR-2005 (constructed before 1976), TR-2006 (constructed before 1976), TR-2007 (constructed in 1977), TR-2008 (constructed in 1977), TR-2010 (constructed in 1983), and TR-2014 (constructed in 1990), with a maximum capacity of 2,000 gallons each;
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), TR-2009 (constructed in 1982), TR-2015 (constructed in 1990), TR-2016 (constructed in 1990), and TR-2017 (constructed in 1993), with a maximum capacity of 4,000 gallons each;
- (3) One (1) sulfur monochloride tank, identified as TS-1058, constructed in 1981, with a maximum capacity of 5,470 gallons;
- (4) One (1) acid tower condensate neutralization tank, identified as TP-2030, constructed before 1976, with a maximum capacity of 500 gallons;
- (5) Two (2) chlorine railcar track spots, identified as RC-0101 and RC-0201, constructed before 1976, with a maximum capacity of 1 railcar (containing at most 180,600 pounds) each;
- (6) One (1) acid tower, identified as CB-2060, constructed before 1976, with a maximum capacity of 4,800 lb/hr muriatic acid;
- (7) One (1) tower product acid tank, identified as TP-2033, constructed before 1976, with a maximum capacity of 560-gallons;
- (8) One (1) tower water feed tank, identified as TP-2060 (constructed in 1996), with a maximum capacity of 560-gallons; and
- (9) Two (2) chlorine vaporizers, identified as XV-2050 and XV-2051, constructed before 1976, and with a maximum feed capacity of 3,000 lb/hr chlorine combined;

all controlled by seven (7) scrubbers, identified as TP-2061 (constructed before 1976), TP-2062 (constructed before 1976), TP-2063 (constructed before 1976), TP-2064 (constructed before 1976), TP-2065 (constructed in 1977), TP-2066 (constructed in 1977), and TP-2067 (constructed in 1995), and exhausting at seven (7) stacks, identified as Stacks TP-2061 to 2067.

(c) The system consisting of:

- (1) Three (3) muriatic acid tanks, identified as TS-1090 (constructed in 1979), TS-1091 (constructed in 1980), and TS-1093 (constructed in 2000), with a maximum capacity of 16,000, 14,900 and 16,000 gallons, respectively;

- (2) Two (2) hypochlorite reduction tanks, identified as TP-3494, and TP-3495 (constructed in 1993), with a maximum capacity of 6,250 gallons each;
- (3) One (1) muriatic acid tank truck loading station, constructed in 1979, with a maximum capacity of 1 truck;

controlled by one (1) caustic scrubber identified as TP-1099 constructed in 1980 exhausting at one (1) stack, identified as Stack TP-1099.

(d) The system consisting of:

- (1) One (1) chlorinated product tank, identified as TS-2041, constructed before 1976, with a maximum capacity of 4,000 gallons;
- (2) Two (2) chlorinated product tanks, identified as TS-2043, and TS-2044, constructed before 1976, with a maximum capacity of 4,100 gallons each; and
- (3) One (1) chlorinated product-drumming tank, identified as TS-2012, constructed in 1978, with a maximum capacity of 1,500 gallons.

Hi-Temp process - with a maximum rated capacity of 4,200 pounds per hour of hi-temp products consisting of the following equipment:

(f) The system consisting of:

- (1) One (1) reactor, identified as TR-2620, constructed in 1989, with a maximum capacity of 4,000 gallons;
- (2) Two (2) recovered methanol tanks, identified as TS-2602 and TS-2603, constructed in 1989, with maximum capacity of 2,500, and 4,000 gallons, respectively;
- (3) One (1) sludge tank, identified as TP-2604, constructed in 1989, with a maximum capacity of 750 gallons, equipped with a sludge drumming operation followed by an activated carbon filter for odor management;
- (4) One (1) scrubber liquor tank, identified as TS-2610, constructed in 2001, with a maximum capacity of 10,000 gallons; and
- (5) One (1) intermediate holding tank, identified as TP-2601, constructed in 1989, with a maximum capacity of 4,550 gallons;

all controlled by two (2) caustic scrubbers identified as TP-2624 and TP-2626, constructed in 1989; and one flare, identified as GB-2627, constructed in 1990, in series, and exhausting at one (1) stack, identified as Stack GB-2627.

- (g) One (1) scrubber liquor truck loading station, constructed in 1989, controlled by a carbon drum, identified as TF-2610 constructed in 2001.
- (h) One (1) pre-coat tank, identified as TP-2722, constructed in 1995, with a maximum capacity of 1,300 gallons.
- (i) One (1) filter feed tank, identified as TP-2720, constructed in 1995, with a maximum capacity of 5,000 gallons, controlled by a carbon drum, identified as TF-2728 and exhausting at a stack identified as Stack TP-2728.

- (j) One (1) filtrate tank, identified as TP-2730, constructed in 1995, with a maximum capacity of 5,000 gallons.
- (k) One (1) filter, identified as GF-2724, constructed in 1995, with a maximum capacity of 69 cubic feet of filter cake, and one (1) filter, identified as GF-2734, constructed in 2005, with a maximum capacity of 41 cubic feet of filter cake, both controlled by a carbon drum, identified as TF-2728, exhausting at stack TF-2728.
- (l) One (1) reactor, constructed in 1993, identified as TP-2553, with a maximum capacity of 2,100 gallons, controlled by scrubber TP-2589.
- (m) One (1) filter feed tank, constructed in 1993, identified as TP-2554, with a maximum capacity of 2,100 gallons.
- (n) Three (3) wash water tanks, constructed in 1996, identified as TP-2556, TP-2557 and TP-2558, each with a maximum capacity of 700 gallons.
- (o) One (1) reactor, constructed in 1990, identified as TR-2630, with a maximum capacity of 4,000 gallons.
- (p) One (1) reactor, constructed in 2005, identified as TR-2541, with a maximum capacity of 3,500 gallons, controlled by scrubber TP-2589.

Fuel Additive Process - with a maximum rated capacity of 12,000 pounds per hour of fuel additives (prior to blending) consisting of the following equipment:

- (q) The system consisting of:
 - (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), TR-2003 (constructed before 1976), TR-2004 (constructed before 1976), TR-2005 (constructed before 1976), TR-2006 (constructed before 1976), TR-2007 (constructed in 1977), TR-2008 (constructed in 1977), TR-2010 (constructed in 1983), and TR-2014 (constructed in 1990), with a maximum capacity of 2,000 gallons each;
 - (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), TR-2009 (constructed in 1982), TR-2015 (constructed in 1990), TR-2016 (constructed in 1990), and TR-2017 (constructed in 1993), with a maximum capacity of 4,000 gallons each;
 - (3) One (1) EDA recycle tank, identified as TP-2052 (constructed in 1985), with a maximum capacity of 1,700 gallons;

controlled by a scrubber identified as TP-2072 (constructed in 1985), and exhausting at a stack identified as Stack TP-2072.
- (r) One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as TF-1027, and exhausting at stack identified as Stack TF-1027.
- (s) One (1) continuous wash system consisting of tanks TP-2339, TP-2328, TP-2334, TP-2333, TP-2331, TP-2330, TP-2340, TP-2349, TP-2348, one (1) 300 gallon feed tank identified as TP-2329, one (1) butanol recovery column identified as CS-2329, and one stripping column identified as CD-2319, controlled by one (1) vent condenser identified as XT-2313 and exhausting to stack XT-2313.

One (1) continuous wash system consisting of tanks TP-2350, TP-2359, TP-2353, TP-2354, TP-2351, TP-2352, TP-2355, TP-2356, TP-2357, one (1) butanol water feed tank identified as TP-2358, one (1) butanol recovery column identified as CS-2368, and one stripping column identified as CD-2350, controlled by one (1) vent condenser identified as XT-2350 and exhausting to stack XT-2350.

- (t) Four (4) product rundown tanks, identified as TP-1035, TP-1036 (both constructed in 1985), TP-2360, and TP-2361 (both constructed in 1990), maximum capacity of 6,800 gallons each.
- (u) Three (3) fuel additive blending tanks, identified as TP-1030, TP-1031, and TP-1032 (all constructed in 1985), with maximum capacities of 11,740, 15,220, and 11,740 gallons, respectively.

Miscellaneous Process - with a maximum rated capacity of 3,000 pounds per hour consisting of the following equipment:

- (v) Five reactors, identified as TR-2224 (constructed in 1980), TR-2225 (constructed before 1976), TR-2226 (constructed before 1976), TR-2227 (constructed before 1976), and TR-2228 (constructed before 1976), maximum capacity of 5,500, 2,000, 7,000, 400, and 7,500 gallons, respectively; controlled by two (2) wet scrubbers, identified as PE-2228, and TP-2332, and exhausting at stacks identified as Stack PE-2228, and Stack TP-2332.
- (w) Two (2) reactors, identified as TR-2329 (constructed in 1986), and TR-2322 (constructed in 1984), maximum capacity of 1,500, and 2,000 gallons, respectively.

(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)]

E.1.1 NESHAP Minor Limit [40 CFR Part 63, Subpart A][40 CFR Part 63, Subpart NNNNN] [326 IAC 20-1]

- (a) The total HAP emissions from all temporary operation and experimental trials, implemented pursuant to 326 IAC 2-1.1-3(h)(3), shall be limited to six (6) tons per twelve consecutive month period, with compliance determined at the end of each month.
- (b) Total HCl emissions from all temporary operation and experimental trials, implemented pursuant to 326 IAC 2-1.1-3(h)(3), shall be limited to one (1) ton per twelve consecutive month period, with compliance determined at the end of each month.
- (c) Total Cl₂ emissions from all temporary operation and experimental trials, implemented pursuant to 326 IAC 2-1.1-3(h)(3), shall be limited to three (3) tons per twelve consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, along with HAP emissions from the chlorination process and source wide fugitive HAP emissions from storage tanks, will limit the source-wide potential to emit of single HAP and combined HAP emissions to less than 10 and 25 tons per 12 consecutive month period, respectively, and make the requirements of 40 CFR Part 63, Subpart NNNNN and Subpart A not applicable.

Compliance Determination Requirements

E.1.2 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee shall perform HAP testing for any temporary operation and experimental trial implemented pursuant to 326 IAC 2-1.1-3(h)(3), during the thirty (30) day trial period, to establish

a HAP emission rate for that trial. Tests shall be conducted utilizing methods as approved by the Commissioner, and in accordance with Section C- Performance Testing.

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

E.1.3 Record Keeping Requirements

- (a) The Permittee shall maintain records sufficient to document compliance with Condition E.1.1. These records shall include the following:
- (1) Total production during each experimental trial period.
 - (2) Total raw material input during each experimental trial period.
 - (3) Total HAP input during each experimental trial period.
 - (4) Test data and results for the testing required pursuant to E.1.2.
 - (5) Total emissions from each experimental trial conducted at the source.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

E.1.4 Reporting Requirements

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

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

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Dover Chemical –Hammond Works
Source Address: 3000 Sheffield Avenue, Hammond, IN 46327
Mailing Address: 3000 Sheffield Avenue, Hammond, IN 46327
Part 70 Permit No.: T089-7797-00227

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
100 North Senate Avenue, MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Dover Chemical- Hammond Works
Source Address: 3000 Sheffield Avenue, Hammond, IN 46327
Mailing Address: 3000 Sheffield Avenue, Hammond, IN 46327
Part 70 Permit No.: T089-7797-00227

This form consists of 2 pages

Page 1 of 2

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

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

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

and

**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Part 70 Quarterly Report**

Source Name: Dover Chemical Corporation - Hammond Works
Source Address: 3000 Sheffield Avenue, Hammond, IN 46320
Mailing Address: 3000 Sheffield Avenue, Hammond, IN 46320
Part 70 Permit No.: T089-7797-00227
Facility: Sulfurization Process
Limit: Less than 10,335 tons of sulfur used per year

YEAR: _____

Month	Sulfur Used	Sulfur Used	Sulfur Used
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

and

**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Part 70 Quarterly Report**

Source Name: Dover Chemical Corporation - Hammond Works
Source Address: 3000 Sheffield Avenue, Hammond, IN 46320
Mailing Address: 3000 Sheffield Avenue, Hammond, IN 46320
Part 70 Permit No.: T089-7797-00227
Facility: Sulfurization process
Limit: Less than 26,500 tons of sulfurization products per year

YEAR: _____

Month	Sulfurization Products	Sulfurization Products	Sulfurization Products
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

and

**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Part 70 Quarterly Report**

Source Name: Dover Chemical Corporation - Hammond Works
Source Address: 3000 Sheffield Avenue, Hammond, IN 46320
Mailing Address: 3000 Sheffield Avenue, Hammond, IN 46320
Part 70 Permit No.: T089-7797-00227
Facility: Temporary operation and experimental trials, implemented pursuant to 326 IAC 2-1.1-3(h)(3) (Facilities Identified in Section E.1)
Limit: 6 Tons total HAP emissions per 12 consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	Total HAP Emissions	Total HAP emissions	Total HAP Emissions
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

and

**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Part 70 Quarterly Production Report**

Source Name: Dover Chemical Corporation - Hammond Works
Source Address: 3000 Sheffield Avenue, Hammond, IN 46320
Mailing Address: 3000 Sheffield Avenue, Hammond, IN 46320
Part 70 Permit No.: T089-7797-00227
Facility: Temporary operation and experimental trials, implemented pursuant to 326 IAC 2-1.1-3(h)(3) (Facilities Identified in Section E.1)
Limit: 1 ton HCl and 3 tons Cl₂ per 12 consecutive month period with compliance determined at the end of each month.

YEAR: _____

Month	This Month		Previous 11 Months		12 Month Total	
	HCl	Cl ₂	HCl	Cl ₂	HCl	Cl ₂
Month 1						
Month 2						
Month 3						

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

Submitted by: _____

Title / Position: _____

Signature: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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

Source Name: Dover Chemical – Hammond Works
Source Address: 3000 Sheffield Avenue, Hammond, IN 46327
Mailing Address: 3000 Sheffield Avenue, Hammond, IN 46327
Part 70 Permit No.: T089-7797-00227

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the requirements stated in this permit. 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. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".	
<input type="checkbox"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.	
<input type="checkbox"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

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

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

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

**Addendum to the Technical Support Document (ATSD)
for a Part 70 Significant Permit Modification**

Source Background and Description

Source Name:	Dover Chemical - Hammond Works
Source Location:	3000 Sheffield Avenue Hammond, Indiana 46327
County:	Lake County
SIC Code:	2899
Operation Permit No.:	T089-7797-00227
Significant Permit Modification No.:	089-25143
Permit Reviewer:	David J. Matousek

On March 3, 2008, the Office of Air Quality (OAQ) had a notice published in The Post Tribune in Merrillville, Indiana and The Times in Munster, Indiana, stating that Dover Chemical - Hammond Works applied for a significant modification to their Part 70 Operating Permit issued on March 19, 2004. The notice also stated that the OAQ proposed to issue a modification to this Part 70 Operating Permit and provided information on how the public could review the proposed permit 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 this permit should be issued as proposed.

Comments and Responses

On March 13, 2008, Geri Wendorf submitted written comments to IDEM, OAQ on the draft significant modification to the Part 70 Operating Permit. A summary of the comments and IDEM's response follows:

Comment 1:

Ms. Wendorf requested a clarification of the description of the modification. The wording used to describe the proposed changes to the permit was too technical.

Response to Comment 1:

The specific text used in the public notice and the clarification follows:

- (a) "The modification consists of the revision of descriptive information for existing emission units, where the revision will not trigger a new applicable requirement or violate a permit term, ..."

Existing sources of air pollution at the source are being "renamed" in the permit. For example, tank 01 is now called tank 02. There are no increases in the amount of air pollution released. The change is simply an administrative change. The last half of the phrase indicates no new laws come into effect because of the change in descriptive information.

- (b) "...the addition of new emission units related to the production of HiTEC 082,..."

The current Part 70 Operating Permit allows the source to conduct "temporary trials" to develop new products. Dover Chemical conducted a trial for a product called HiTEC 082 and now wishes the process to be permanently added to the permit. IDEM has reviewed independent testing results from the trial and does not object to the addition of the process on a permanent basis.

- (c) "...and the revision of permit conditions relaxing the reporting requirements for the chlorination process."

Dover Chemical - Hammond Works was required to perform independent testing of the chlorination process to verify emissions estimates from a previous permit modification. The testing was conducted and verified by IDEM. As a result of this testing, IDEM determined the emissions from this process were not significant and the submission of a reporting form was not required.

In addition and by necessity, the language used in Part 70 Operating Permits is complex because the processes regulated are complex. No change to the draft permit has been made as a result of this comment.

Comment 2:

Ms. Wendorf indicated the telephone number listed in the public notice was incorrect. She also requested the permit be sent through public notice again.

Response to Comment 2:

IDEM, OAQ recently went through a reorganization that generated changes to some staff phone numbers. Ms. Wendorf also submitted written comments by email on March 13, 2008 and an acknowledgement of receipt of the comments and the request for a public hearing was sent to Ms. Wendorf on the same day. The reply to the telephone inquiry and the email was properly handled in a timely manner.

No change to the draft permit has been made as a result of this comment. The draft will not be put on public notice again.

Comment 3:

Ms. Wendorf requested a public hearing to clarify the proposed modification to the permit.

Response to Comment 3:

Public hearings on these types of permits are discretionary under Indiana Law. During the public comment period, the Indiana Department of Environmental Management received comments from only one individual. Therefore, the OAQ has elected not to hold a public hearing to address these comments. The comments were addressed by email reply and a follow up telephone call to the only commenter.

IDEM Contact

Questions regarding this significant modification to a Part 70 Operating Permit can be directed to David J. Matousek at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 232-8253 or toll free at 1-800-451-6027 extension 2-8253.

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

and

Hammond Department of Environmental Management

**Technical Support Document (TSD) for a
Part 70 Significant Permit Modification**

Source Description and Location	
Source Name:	Dover Chemical - Hammond Works
Source Location:	3000 Sheffield Avenue Hammond, Indiana 46327
County:	Lake County
SIC Code:	2899
Operation Permit No.:	T089-7797-00227
Operation Permit Issuance Date:	March 19, 2004
Significant Permit Modification No.:	089-25143-00227
Permit Reviewer:	David J. Matousek

Existing Approvals	
<p>The source was issued Part 70 Operating Permit No. T089-7797-00227 on March 19, 2004. The source has since received the following approvals:</p> <ul style="list-style-type: none"> (a) Significant Source Modification No. 089-18109-00227, issued on June 21, 2004; (b) Significant Permit Modification No. 089-18855-00227, issued on August 6, 2004; (c) Exemption No. 089-21189-00227, issued on June 1, 2005; (d) Exemption No. 089-21535-00227, issued on July 19, 2005; (e) Exemption No. 089-21882-00227, issued on October 27, 2005; (f) Administrative Amendment No. 089-21756-00227, issued on November 16, 2005; (g) Exemption No. 089-22533-00227, issued on January 31, 2006; (h) Significant Permit Modification No. 089-21470-00227, issued on March 17, 2006; (i) Administrative Amendment No. 089-23331-00227, issued on October 12, 2006; and (j) Administrative Amendment No. 089-24393-00227, issued on March 27, 2007. 	

History	
<p>The following is a summary of the relevant source modifications, permit modifications, permit amendments, and exemptions issued to Dover Chemical - Hammond Works:</p>	

- (a) Significant Source Modification No. 089-18109-00227, issued on June 21, 2004 and Significant Permit Modification No. 089-18855-00227, issued on August 6, 2004:
On September 5, 2003, Dover Chemical - Hammond Works applied to add a reflux condenser, identified as TR-2120, to the sulfurization process. As part of this project, the source accepted an enforceable limit on the production of sulfurization products to limit emissions of VOC from the process to less than ten (10) tons per year and H₂S to less than ten (10) tons per year. In addition, operation of the sulfurization scrubber was made enforceable. The TSD for this project stated the potential to emit VOC for the project was 0.0 tons per year. The project simply added a control device and made the use of the control device enforceable. No VOC emission increase was proposed.
- (b) Administrative Amendment No. 089-21756-00227, issued on November 16, 2005:
On July 15, 2005, Dover Chemical - Hammond Works applied to replace two existing chlorine vaporizers, identified as XV-2050 and XV-2051, one acid tower, identified as CB-2060, on the chlorine process line with a single chlorine vaporizer, identified as XV-2050 and a new acid tower, identified as CB-2060, respectively. The chlorine vaporizers and acid tower were replaced to increase process reliability, since the vaporizers and acid tower were reaching the end of their normal service life. Emissions from the chlorination process are from the reactors and are controlled by the product formula and the reactor capacity. Since the reactor capacity and product formula did not change, there were no anticipated increases in the potential to emit from the chlorination process due to the replacement of the chlorine vaporizer and acid tower. The chlorine vaporizer simply feeds raw material and has no associated emissions. The acid tower helps recover hydrochloric acid (HCl) from the reactors. The new acid tower had a slightly higher efficiency so the recovery of HCl in the reactor exhaust was anticipated to increase, lowering HCl emissions, and increasing the production of product HCl, also known as muriatic acid.
- (c) Significant Permit Modification No. 089-21470-00227, issued on March 17, 2006:
On July 15, 2005, Dover Chemical - Hammond Works applied to include enforceable permit conditions limiting source-wide HAP emissions below major thresholds, and the deletion of all conditions relating to 40 CFR 63, Subpart NNNNN. The requirements of 40 CFR 63, Subpart NNNNN (National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production) applies to hydrochloric acid production facilities located at major sources. Dover Chemical - Hammond Works submitted emission calculations showing the potential to emit Hydrochloric Acid (HCl) and Chlorine (Cl₂) exceeded the major source thresholds for HAPs. The source opted to limit the source-wide emissions of any combination of HAPs and any single HAP to less than 25 and 10 tons per twelve (12) consecutive month period, respectively. The Permittee chose to limit production of chlorinated hydrocarbons in the chlorination process to less than 12,000 tons per 12 consecutive month period with compliance determined at the end of each month. The limit of 12,000 tons was obtained by the use of theoretically derived emission factors of 1.45 pounds of HCl per ton of chlorinated hydrocarbon produced and 1.07 pounds of Cl₂ per ton of chlorinated hydrocarbon produced. The emission factors were accepted by IDEM and a permit condition was included to require stack testing to verify both emission factors. Both emission factors were later determined by an approved stack test to be overly conservative.
- (d) Administrative Amendment No. 089-23331-00227, issued on October 12, 2006:
On July 7, 2006, Dover Chemical - Hammond Works applied to include the Dovernox C-8 production process. The application consisted of emission units not previously included in the Part 70 Operating Permit, as well as modified and

re-numbered units. The potential to emit from the project was 1.67 tons per year for VOC and 0.58 tons per year for HAPs (Styrene). An administrative amendment was issued because the project involved the revision of descriptive information, the incorporation of exempt units and insignificant activities.

- (e) Administrative Amendment No. 089-24393-00227, issued on March 27, 2007:
 On March 2, 2007, Dover Chemical - Hammond Works applied to update descriptive information, make minor physical changes to process piping in accordance with 326 IAC 2-1.1-1(6), to use two existing storage tanks to store maleic anhydride, and to add the manufacture of a new product PIBSA in the Hi-Temp process using existing process equipment. As part of this application, the Permittee stated total HAP emissions from all storage tanks located at the site were less than one (1) ton per year.

County Attainment Status

The source is located in Lake County.

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

¹Nonattainment 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.

(Air Pollution Control Board; 326 IAC 1-4-46; filed Dec 26, 2007, 1:43 p.m.: 20080123-IR-326070308FRA)

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

On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including

the lower NO_x threshold for non-attainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standards. Therefore, VOC emissions were reviewed pursuant to the requirements for nonattainment new source review. See the State Rule Applicability for the source section.

- (2) VOC and NO_x 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_x emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3. See the State Rule Applicability – Entire Source section.
- (b) U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM_{2.5}. On March 7, 2005, the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM₁₀ emissions as a surrogate for PM_{2.5} emissions pursuant to the requirements of Non-attainment New Source Review.
- (c) Lake County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are counted toward the determination of PSD and Emission Offset applicability.

Source Status

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

Pollutant	Emissions (ton/yr)
PM	Less than 100
PM ₁₀	Less than 100
SO ₂	Less than 100
VOC	Greater than 25
CO	Less than 100
NO _x	Less than 100

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 100 tons per year or more, and it is 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 VOCs are emitted at a rate of 25 tons per year or more.
- (c) All emissions are based on the TSD for the Second Significant Permit Modification number 089-21470-00227 to the Part 70 Operating Permit T089-7797-00227.

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

HAPs	Potential To Emit (ton/yr)
Chlorine	Greater than 10
Hydrochloric Acid	Greater than 10
Total	Greater than 25

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA). After the proposed modification, the potential to emit of a single HAP will be less than ten (10) tons per year and less than twenty-five (25) tons per year for a combination of HAPs.

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2006 OAQ emission data.

Pollutant	Actual Emissions (ton/yr)
PM	0.0
PM ₁₀	0.0
SO ₂	0.0
VOC	11.0
CO	6.0
NO _x	7.0
HAP	not reported
Total HAPs	not reported

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Dover Chemical - Hammond Works on August 14, 2007, relating to the revision of descriptive information for existing emission units, where the revision will not trigger a new applicable requirement or violate a permit term, the addition of new emission units related to the production of HITEC 082, and the revision of permit conditions changing reporting requirements.

The replacement of the chlorine vaporizers and acid tower authorized under administrative amendment number 089-21756-00227 was never accomplished. The source is requesting the revisions to the emission unit descriptive information to reflect the original equipment listed in the Part 70 Operating Permit prior to administrative amendment number 089-21756-00227. Other changes to descriptive information are intended to remove equipment no longer located at the source or to reflect a revised numbering system in use at the facility. The new emission units proposed to be added for the HITEC 082 process were previously approved under an exemption as an experimental trial. The source wishes to add the product and all of the necessary equipment on a permanent basis.

The following is a list of new emission units existing at the source and proposed for inclusion in the Part 70 Operating Permit:

Tanks

- 1) One (1) blend tank, constructed prior to 1976, identified as TP-2207, maximum capacity of 3,000 gallons, uncontrolled emissions.
- 2) One (1) storage tank, constructed prior to 1976, identified as TS-2252, maximum capacity of 10,690 gallons, uncontrolled emissions.
- 3) One (1) storage tank, constructed in 2005, identified as TS-2271, maximum capacity of 3,940 gallons, uncontrolled emissions.
- 4) One (1) storage tank, constructed in 2005, identified as TS-2272, maximum capacity of 3,940 gallons, uncontrolled emissions.
- 5) One (1) storage tank, constructed in 1990, identified as TS-2611, maximum capacity of 4,760 gallons, uncontrolled emissions.

HiTEC 082 System

- 1) One (1) reactor, constructed in 1993, identified as TP-2553, maximum capacity of 2,100 gallons, controlled by scrubber TP-2589.
- 2) One (1) stripper, constructed in 1980, identified as TP-2541, maximum capacity of 3,700 gallons, controlled by scrubber TP-2589.
- 3) One (1) filtrate tank, constructed in 1993, identified as TP-2554, maximum capacity of 2,100 gallons, uncontrolled emissions.
- 4) Three (3) wash water tanks, constructed in 1996, identified as TP-2556, TP-2557 and TP-2558, each with a maximum capacity of 700 gallons, uncontrolled emissions.

The Permittee requests a revision to descriptive information for several emission units at the source. These changes reflect revised capacities, with no change in the potential to emit, or emission unit identification numbers. In addition, some unit processes described in the existing Part 70 Operating permit were expanded to include all of the equipment associated with the process. The following is a list of revised or corrected emission unit identification numbers:

<u>Permit Section</u>	<u>Old Emission Unit ID</u>	<u>New Emission Unit ID</u>
D.2(c)	TP-1030	TP-1099
D.3(e)(3)	TP-2164	TS-2164
D.4(f)(5)	GG-2627	GB-2627
D.4(h)(4)	GF-2741	GF-2724
D.5(i)(3)	TS-2052	TP-2052
D.5(j)	GF-1029	TF-1027
D.5(m)	TS-1035	TP-1035
D.5(m)	TS-1036	TP-1036
D.5(n)	TS-1030	TP-1030
D.5(n)	TS-1031	TP-1031
D.5(n)	TS-1032	TP-1032
D.7(q)(60)	TS-2305	TS-2605
D.8(r)	GB-3403	GB-3404

The Permittee stated the following emission units are no longer located on site and should be removed from the permit: TP-2322, TS-1083 and TS-2251. Also, storage tank TP-2207 does not contain VOCs and should be removed from the list of storage tanks.

The proposed revisions to Section A.2 - Emission Units and Pollution Control Equipment are as follows, deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

SECTION D.1

(a) Group of Boilers

- (1) One (1) Cleaver-~~B~~Brooks natural gas fired boiler, Model CB-300HP, identified as B-4, constructed in 1974, rated at 12.55 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3401.
- (2) One (1) Cleaver-~~B~~Brooks natural gas fired boiler, Model CB-200-500, identified as B-5, constructed in 1980, rated at 20.92 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3402.
- (3) One (1) Superior-Mohawk natural gas fired boiler, identified as B-6, constructed in 1988, rated at 20 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3403.

SECTION D.2 Chlorination system

with a maximum rated capacity of ~~35,000~~ pounds per hour of **chlorine feed to produce short to long chain chlorination paraffins, olefins, waxes, polybutene, and 4,821 pounds per hour of muriatic acid. The chlorination system consists of the following systems:** ~~chlorinated metal working products, 10,000 pounds per hour of chlorinated polybutene intermediate products, and 12,000 pounds per hour of muriatic acid consisting of the following equipment:~~

(b) The system consisting of:

- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), **TR-2003** (constructed before 1976), **TR-2004** (constructed before 1976), **TR-2005** (constructed before 1976), **TR-2006** (constructed before 1976), **TR-2007** (constructed in 1977), **TR-2008** (constructed in 1977), **TR-2010** (constructed in 1983), and **TR-2014** (constructed in 1990), ~~and~~ with a maximum capacity of 2,000 gallons each;
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), **TR-2009** (constructed in 1982), **TR-2015** (constructed in 1990), **TR-2016** (constructed in 1990), and **TR-2017** (constructed in 1993), ~~and~~ with a maximum capacity of 4,000 gallons each;
- (3) One (1) sulfur monochloride tank, identified as TS-1058, constructed in 1981, ~~and~~ with a maximum capacity of 5,470 gallons;
- (4) One (1) acid tower condensate neutralization tank, identified as TP-2030, constructed before 1976, ~~and~~ with a maximum capacity of 500 gallons;
- (5) Two (2) chlorine railcar track spots, identified as RC-0101 and RC-0201, constructed before 1976, ~~and~~ with a maximum capacity of 1 railcar (containing at most 180,600 pounds) each;
- (6) One (1) acid tower, identified as CB-2060, constructed **before 1976** ~~in 2005~~, ~~and~~ with a maximum capacity of **4,800** ~~12,000~~ lb/hr muriatic acid;
- (7) One (1) tower product acid tank, identified as TP-2033, constructed before 1976, ~~and~~ with a maximum capacity of 560-gallons;

- (8) One (1) tower water feed tank, identified as TP-2060 (constructed in 1996), ~~and~~ with a maximum capacity of 560-gallons; and
- (9) ~~One (1)~~ **Two (2)** chlorine vaporizers, identified as XV-2050 **and XV-2051**, constructed ~~before 1976~~ **before 1976** in 2005, and with a maximum ~~feed~~ **feed** capacity of ~~8,000~~ **3,000** lb/hr chlorine **combined**;

all controlled by seven (7) scrubbers, identified as TP-2061 (constructed before 1976), TP-2062 (constructed before 1976), TP-2063 (constructed before 1976), TP-2064 (constructed before 1976), TP-2065 (constructed in 1977), TP-2066 (constructed in 1977), and TP-2067 (constructed in 1995), and exhausting at seven (7) stacks, identified as Stacks TP-2061 to 2067.

(c) The system consisting of:

- (1) Three (3) muriatic acid tanks, identified as TS-1090 (constructed in 1979), TS-1091 (constructed in 1980), and TS-1093 (constructed in 2000), ~~and~~ with a maximum capacity of ~~14,900, 16,000, 14,900~~ and 16,000 gallons, respectively;
- (2) Two (2) hypochlorite reduction tanks, identified as TP-3494, and TP-3495 (constructed in 1993), ~~and~~ with a maximum capacity of 6,250 gallons each;
- ~~(3) Two (2) chlorinated polybutene storage tanks, identified as TS-1019, and TS-1023 (constructed in 1997), and with a maximum capacity of 27,950 gallons each; and~~
- ~~(3)~~ **(4)** One (1) muriatic acid tank truck loading station, constructed in 1979, ~~and~~ with a maximum capacity of 1 truck;

controlled by one (1) caustic scrubber identified as TP-109930 constructed in 1980 exhausting at one (1) stack, identified as Stack TP-109930.

(d) The system consisting of:

- (1) One (1) chlorinated product tank, identified as TS-2041, constructed before 1976, with a maximum capacity of 4,000 gallons;
- (2) Two (2) chlorinated product tanks, identified as TS-2043, and TS-2044, constructed before 1976, ~~and~~ with a maximum capacity of 4,100 gallons each; and
- (3) One (1) chlorinated product-drumming tank, identified as TS-2012, constructed in 1978, ~~and~~ with a maximum capacity of 1,500 gallons.

SECTION D.3 Sulfurization system

with a maximum rated capacity of 6,000 pounds per hour of sulfurized products consisting of the following equipment:

(e) The system consisting of:

- (1) Three (3) sulfurization reactors, identified as TR-2120, **TR-2121**, and **TR-2123**, constructed before 1976, with maximum capacity of 3,700, 3,700, and 7,500 gallons, respectively, controlled by two (2) caustic scrubbers **operating in series**, identified as TP-2162 and TP-2163, **followed by an activated carbon system for odor management** and exhausting at Stack TP-2163. **One (1) reflux condenser associated with sulfurization reactor TR-2120.**

- (2) Five (5) blowing tanks, identified as **TP-2150** (constructed in 1977), **TP-2151** (constructed in 1977), **TP-2152** (constructed in 1977), **TP-2153** (constructed in 1977),; and **TP-2154** (constructed in 1997), with maximum capacity of 11,000, 9,650, 11,500, 4,000, and 7,600 gallons, respectively, venting to a blowing tank knockout tank identified as TP-2159; controlled by two (2) caustic scrubbers, identified as TP-2162 and TP-2163 and exhausting at Stack TP-2163.
- (3) One (1) knockout storage tank, identified as ~~TSP-2164~~, constructed in 1976, with a maximum capacity of 1,500 gallons, exhausted to a **containment scrubber** ~~caustic sloop tank~~, identified as TP-2167, constructed in 1995, and exhausting at Stack TP-2167.
- (4) One (1) scrubber liquor storage tank, identified as TS-1029, constructed in 1979, ~~and~~ with a maximum capacity of 15,880 gallons.
- (5) ~~One (1) reflux condenser associated with sulfurization reactor TR-2120.~~ **Two (2) molten sulfur storage tanks, identified as TS-2190 and TP-2190, constructed in 1976.**
- (6) **One (1) filter feed tank, maximum capacity of 3,000 gallons, identified as TP-2207, constructed prior to 1976.**

SECTION D.4 Hi-Temp System

with a maximum rated capacity of 4,200 pounds per hour of hi-temp products consisting of the following equipment:

- (f) The system consisting of:
 - (1) One (1) reactor, identified as TR-2620, constructed in 1989, ~~and~~ with a maximum capacity of 4,000 gallons;
 - (2) Two (2) recovered methanol tanks, identified as TS-2602 and TS-2603, constructed in 1989, ~~and~~ with maximum capacity of 2,500, and 4,000 gallons, respectively;
 - (3) One (1) sludge tank, identified as TP-2604, constructed in 1989, ~~and~~ with a maximum capacity of 750 gallons; **equipped with a sludge drumming operation followed by an activated carbon filter for odor management;**
 - (4) One (1) scrubber liquor tank, identified as TS-2610, constructed in 2001, ~~and~~ with a maximum capacity of 10,000 gallons; and
 - (5) One (1) intermediate holding tank, identified as TP-2601, constructed in 1989, ~~and~~ with a maximum capacity of 4,550 gallons;

———— **all** controlled by two (2) caustic scrubbers identified as TP-2624 and TP-2626, ———— constructed in 1989; and one flare, identified as ~~GBG -2627~~, constructed in 1990, ———— in series, and exhausting at one (1) stack, identified as Stack ~~GBG-2627~~.
~~Alternately, the reactors identified in item (f.1) can be controlled by one (1) scrubber identified as TP-2636, constructed in 1990; and exhausting at one (1) stack identified as Stack TP-2636.~~
- (g) One (1) scrubber liquor truck loading station, constructed in 1989, controlled by a carbon drum, identified as TF-2610 constructed in 2001.

- ~~(h) A filtration system consisting of~~
- ~~(h) (1) One (1) pre-coat tank, identified as TP-2722, constructed in 1995, and with a maximum capacity of 1,300 gallons;~~
- ~~(i) (2) One (1) filter feed tank, identified as TP-2720, constructed in 1995, and with a maximum capacity of 5,000 gallons, controlled by a carbon drum, identified as TF-2728 and exhausting at a stack identified as Stack TP-2728;~~
- ~~(j) (3) One (1) filtrate tank, identified as TP-2730, constructed in 1995, and with a maximum capacity of 5,000 gallons; and~~
- ~~(k) (4) One (1) filter, identified as GF-272444, constructed in 1995, and with a maximum capacity of 69 cubic feet of filter cake, and one (1) filter, identified as GF-2734, constructed in 2005, with a maximum capacity of 41 cubic feet of filter cake, both controlled by a carbon drum, identified as TF-2728, exhausting at stack TF-2728;~~

~~controlled by a carbon drum, identified as GF-2728, and exhausting at a stack, identified as Stack GF-2728.~~

- (l) One (1) reactor, constructed in 1993, identified as TP-2553, with a maximum capacity of 2,100 gallons, controlled by scrubber TP-2589.**
- (m) One (1) filter feed tank, constructed in 1993, identified as TP-2554, with a maximum capacity of 2,100 gallons.**
- (n) Three (3) wash water tanks, constructed in 1996, identified as TP-2556, TP-2557 and TP-2558, each with a maximum capacity of 700 gallons.**
- (o) One (1) reactor, constructed in 1990, identified as TR-2630, with a maximum capacity of 4,000 gallons.**
- (p) One (1) reactor, constructed in 2005, identified as TR-2541, with a maximum capacity of 3,500 gallons, controlled by scrubber TP-2589.**

SECTION D.5 Fuel Additive system

with a maximum rated capacity of 12,000 pounds per hour of fuel additives (prior to blending) consisting of the following equipment:

- (iq) The system consisting of:**
- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), TR-2003 (constructed before 1976), TR-2004 (constructed before 1976), TR-2005 (constructed before 1976), TR-2006 (constructed before 1976), TR-2007 (constructed in 1977), TR-2008 (constructed in 1977), TR-2010 (constructed in 1983), and TR-2014 (constructed in 1990), and with a maximum capacity of 2,000 gallons each;**
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), TR-2009 (constructed in 1982), TR-2015 (constructed in 1990), TR-2016 (constructed in 1990), and TR-2017 (constructed in 1993), and with a maximum capacity of 4,000 gallons each;**

- (3) One (1) EDA recycle tank, identified as ~~TS~~**TP**-2052 (constructed in 1985), ~~and~~ with a maximum capacity of 1,700 gallons;

controlled by a scrubber identified as TP-2072 (constructed in 1985), and exhausting at a stack identified as Stack TP-2072.

- (jr) One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as ~~TGF~~**TGF**-10279, and exhausting at stack identified as Stack ~~TGF~~**TGF**-10297.

- ~~(ks) Two (2) continuous wash systems and two (2) stripping columns identified as CD-2319 (constructed in 1985) and CD-2350 (constructed in 1990), controlled by two (2) vent condensers identified as XT-2313, and XT-2350, and exhausting at stacks identified as Stack XT-2313, and Stack XT-2350.~~

One (1) continuous wash system consisting of tanks TP-2339, TP-2328, TP-2334, TP-2333, TP-2331, TP-2330, TP-2340, TP-2349, TP-2348, one (1) 300 gallon feed tank identified as TP-2329, one (1) butanol recovery column identified as CS-2329, and one stripping column identified as CD-2319, controlled by one (1) vent condenser identified as XT-2313 and exhausting to stack XT-2313.

One (1) continuous wash system consisting of tanks TP-2350, TP-2359, TP-2353, TP-2354, TP-2351, TP-2352, TP-2355, TP-2356, TP-2357, one (1) butanol water feed tank identified as TP-2358, one (1) butanol recovery column identified as CS-2368, and one stripping column identified as CD-2350, controlled by one (1) vent condenser identified as XT-2350 and exhausting to stack XT-2350.

- ~~(l) Two (2) solvent storage tanks, identified as TS-1026 (constructed in 1985), and TS-2618 (constructed in 1990), and maximum capacity of 28,760, and 10,570 gallons, respectively.~~

- ~~(tm) Four (4) product rundown tanks, and identified as TPS-1035, TPS-1036 (both constructed in 1985), TP-2360, and TP-2361 (both constructed in 1990), and maximum capacity of 6,800 gallons each.~~

- ~~(ua) Three (3) fuel additive blending tanks, identified as TPS-1030, TPS-1031, and TPS-1032 (all constructed in 1985), and with maximum capacities of 11,740, 15,220, and 11,740 gallons, respectively.~~

SECTION D.6 Miscellaneous system

With a maximum rated capacity of 3,000 pounds per hour consisting of the following equipment:

- ~~(ve) Five reactors, identified as TR-2224 (constructed in 1980), TR-2225 (constructed before 1976), TR-2226 (constructed before 1976), TR-2227 (constructed before 1976), and TR-2228 (constructed before 1976), maximum capacity of 5,500, 2,000, 7,000, 400, and 7,500 gallons, respectively; controlled by two (2) wet scrubbers, identified as PE-2228, and TP-2332, and exhausting at stacks identified as Stack PE-2228, and Stack TP-2332.~~

- ~~(wp) Two (2) reactors, identified as TR-2329 (constructed in 1986), and TR-2322 (constructed in 1984), maximum capacity of 1,500, and 2,000 gallons, respectively, controlled by a demister (constructed in 1989), identified as TP-2322 and exhausting at stack, identified as Stack TP-2322.~~

This stationary source also includes the following insignificant activities, which are specifically regulated, as defined in 326 IAC 2-7-1(21). Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

SECTION D.7 VOC STORAGE TANKS

- (xq) Storage tanks emitting less than one (1) ton per year collectively of a combination of HAPs and less than fifteen (15) pounds per day of VOC. [326 IAC 12, and 40 CFR 60.112b(a)]
- (1) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1001, constructed in 1997.
 - (2) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1002, constructed in 1997.
 - (3) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1003, constructed in 1993.
 - (4) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1004, constructed in 1978.
 - (5) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1005, constructed in 1978.
 - (6) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1006, constructed in 1978.
 - (7) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1007, constructed in 1978.
 - (8) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1008, constructed in 1978.
 - (9) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1009, constructed in 1978.
 - (10) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1010, constructed in 1978.
 - (11) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1011, constructed in 1978.
 - (12) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1012, constructed in 1978.
 - (13) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1013, constructed in 1978.
 - (14) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1014, constructed in 1978.
 - (15) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1015, constructed in 1987.
 - (16) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1016, constructed in 1978.
 - (17) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1017, constructed in 1978.
 - (18) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1018, constructed in 1978.

- (19) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1019, constructed in 1996, **exhausting to a scrubber identified as TP-1099.**
- (20) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1020, constructed in 1997.
- (21) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1021, constructed in 1997.
- (22) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1022, constructed in 1996.
- (23) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1023, constructed in 1996.
- (24) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1024, constructed in 1997.
- (25) One (1) storage tank, maximum capacity of 28,760 gallons, identified as TS-1026, constructed in 1980.
- ~~(26) One (1) storage tank, maximum capacity of 14,930 gallons, identified as TS-1027, constructed in 1989.~~
- (276) One (1) storage tank, maximum capacity of 11,075 gallons, identified as TS-1028, constructed in 1980.
- ~~(28) One (1) storage tank, maximum capacity of 15,880 gallons, identified as TS-1029, constructed in 1980.~~
- ~~(29) One (1) blend tank, maximum capacity of 11,740 gallons, identified as TPS-1030, constructed in 1986.~~
- ~~(30) One (1) blend tank, maximum capacity of 15,220 gallons, identified as TPS-1031, constructed in 1986.~~
- ~~(31) One (1) blend tank, maximum capacity of 11,740 gallons, identified as TPS-1032, constructed in 1986.~~
- (3227) One (1) ~~POBA~~ storage tank, maximum capacity of 15,220 gallons, identified as TS-1033, constructed in 1986.
- (3328) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1039, constructed in 1987.
- (3429) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1040, constructed in 1987.
- (3530) One (1) ~~storage blend~~ tank, maximum capacity of 15,540 gallons, identified as TS-1042, constructed in 1989.
- (3631) One (1) storage or blend tank, maximum capacity of 14,900 gallons, identified as TS-1043, constructed in 1990.
- (372) One (1) wax storage tank, maximum capacity of 20,390 gallons, identified as TS-1056, constructed in 1978.

- (383) One (1) storage tank, maximum capacity of 20,390 gallons, identified as TS-1057, constructed in 1978.
- (394) One (1) storage tank, maximum capacity of 4,010 gallons, identified as TS-1081, constructed in 1989.
- (4035) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1082, constructed in 1989.
- ~~(41) One (1) storage tank, maximum capacity of 1,320 gallons, identified as TS-1083, constructed in 1976.~~
- (4236) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2160, constructed before 1976.
- ~~(4337)~~ One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2163, constructed before 1976.
- (4438) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2168, constructed before 1976.
- (4539) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2169, constructed before 1976.
- (460) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2170, constructed before 1976.
- (417) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2178, constructed in 1998.
- (482) One (1) storage tank, maximum capacity of 2,600 gallons, identified as TS-2209, constructed before 1979.
- (493) One (1) storage tank, maximum capacity of 10,800 gallons, identified as TS-2218, constructed before 1979.
- ~~(4450) One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2251, constructed before 1976.~~ **One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2252, constructed prior to 1976.**
- ~~(5145)~~ One (1) storage tank, maximum capacity of 6,760 gallons, identified as TS-2253, constructed before 1976.
- ~~(5246)~~ One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2255, constructed before 1976.
- ~~(5347)~~ One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2264, constructed before 1979.
- (5448) One (1) storage tank, maximum capacity of 31,070 gallons, identified as TS-2265, constructed before 1979.
- (49) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2271, constructed in 2005.**

- (50) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2272, constructed in 2005.**
- (515) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2275, constructed before 1979.
- (526) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2276, constructed before 1979.
- (537) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2277, constructed before 1976.
- (5458) One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2279, constructed before 1976.
- (595) One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2280, constructed before 1976.
- (6056) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-26305, constructed in 1990.
- (6157) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2315, constructed in 1990.
- ~~(62) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.~~
- (5863) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2362, constructed in 1990.
- (5964) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2364, constructed in 1990.
- (605) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2365, constructed in 1990.
- (616) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2367, constructed in 1990.
- (627) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2606, constructed in 1989.
- ~~(68) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2610, constructed in 1990.~~
- (63) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2611, constructed in 1990.**
- (649) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2612, constructed in 1990.
- (6570) One (1) storage tank, maximum capacity of 30,080 gallons, identified as TS-2613, constructed in 1990.
- (66) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.**

- (7167) One (1) storage tank, maximum capacity of 16,920 gallons, identified as TS-2619, constructed in 1990.
- (6872) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2550, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.
- (6973) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2551, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.
- (704) One (1) storage tank, maximum capacity of 2,970 gallons, identified as TP-2617, constructed in 1990.
- ~~(75) One (1) reactor, maximum capacity of 4,000 gallons, identified as TR-2630, constructed in 1990 with overheads system.~~
- ~~(76) One (1) reactor, maximum capacity of 3,500 gallons, identified as TR-2541, constructed in 2005 with overheads system.~~
- ~~(77) One (1) decanter feed tank, maximum capacity of 1,630 gallons, identified as TP-2780, constructed in 1995.~~

SECTION D.8

5.7 MMBtu/hr Boiler

- (yf) One (1) natural gas fired boiler, Model, identified as boiler no. B-3, constructed in 1974, rated at 5.7 MMBtu per hour, exhausting at one (1) stack, identified as GB-34043.

Enforcement Issues

There are no pending enforcement actions.

Emission Calculations

See Appendix A of this Technical Support Document for detailed emission calculations.

Permit Level Determination – Part 70

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

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (ton/yr)
PM	0.00
PM ₁₀	0.00
SO ₂	0.00
VOC	1.74
CO	0.00
NO _x	0.00

HAPs	Potential To Emit (ton/yr)
1,3 Butadiene	1.74
TOTAL	1.74

This source modification is not subject to 326 IAC 2-7-10.5(d), since the potential to emit VOC of the modification is below ten (10) tons per year. Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d)(1), because the modification includes a significant change in existing reporting and recordkeeping permit terms and conditions.

Permit Level Determination – PSD or Emission Offset

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Process / Emission Unit	Potential to Emit (ton/yr)					
	PM	PM ₁₀	SO ₂	VOC	CO	NO _x
Hi-TEC Production	0.00	0.00	0.00	0.01	0.00	0.00
Storage Tanks (Fugitive)	0.00	0.00	0.00	0.01	0.00	0.00
Hi-TEC Loadout (Fugitive)	0.00	0.00	0.00	0.70	0.00	0.00
Total for This Modification	0.00	0.00	0.00	0.72	0.00	0.00
Emission Offset Significant Level	---	---	---	25.00 de minimis	---	40.00
PSD Significant Levels	25.00	15.00	40.00	---	100.00	---

Emission Offset De Minimis Test

In accordance with 326 IAC 2-3-1(q), de minimis, in reference to an emissions increase of volatile organic compounds from a modification in a serious or severe ozone nonattainment area, means an increase that does not exceed twenty-five (25) tons per year when the net emissions increases from the proposed modification are aggregated on a pollutant specific basis with all other net emissions increases from the source over a five (5) consecutive calendar year period prior to, and including the year of the modification. This modification will begin operation in 2008. The following table shows the potential to emit VOC from modifications for calendar years 2004 up to and including 2008:

Project Emission Increase - No effected units or emission credits

Project Number	Project Description	Increase in VOC (ton/yr)
Project Emission Increase (PEI) New Units	HiTEC 082 - This modification	0.72
PEI		0.72

Five Year Contemporaneous Projects - Calendar Years 2004 to 2008

Project Number	Project Description	Increase in VOC (ton/yr)
SSM 089-18109-00227 SPM 089-18855-00227	Add a reflux condenser to the sulfurization process.	0.00
AA 089-21756-00227	Replacement of chlorine vaporizer and acid tower.	0.00
SPM 089-21470-00227	Add 40 CFR 63, Subpart NNNNN minor avoidance limit.	0.00
AA 089-23331-00227	Equipment modification to make Dovernox C-8	1.67
AA 089-24393-00227	Minor physical change to process piping.	1.00
Net Contemporaneous Increases and Decreases		2.67

Net Emission Increase (NEI) = PEI + Net Contemporaneous Increases and Decreases	3.39
VOC De Minimis Threshold (TPY)	25.00
Significant Net Emissions Increase	No
Pollutant	VOC

This modification to an existing major stationary source is not major because the emissions increases of NOx are less than the Emission Offset Significant Levels. In addition, the emissions increases of VOC are less than the de minimis level of twenty-five (25) tons over the last five years. Therefore, pursuant to 326 IAC 2-3, the requirements of Emission Offset are not applicable.

This modification to an existing minor stationary source is not major because the emissions increases of PM, PM10, SO₂ and CO are less than the PSD significant levels for operations listed as one of the twenty-eight (28) listed source categories under 326 IAC 2-2. Therefore, pursuant to 326 IAC 2-2, the requirements of Prevention of Significant Deterioration are not applicable.

Federal Rule Applicability Determination

There are no new federal rules applicable to the source due to this modification. The following is addressed for clarity purposes:

40 CFR Part 63, Subpart NNNNN (National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production)

Subpart NNNNN is applicable to all hydrochloric acid (HCl) production located at plant sites that are major sources of HAP emissions. As part of significant permit modification 089-21470-00227,

the potential to emit of HCl and chlorine (Cl₂) was estimated to be greater than the major modifications thresholds for HAPS. Dover Chemical - Hammond Works chose to limit the chlorinated hydrocarbon production in the chlorination process to less than 12,000 tons per 12 consecutive month period with compliance determined at the end of each month, which is equivalent to single HAP and combined HAP emissions of less than 10 and 25 tons per twelve consecutive month period, respectively. The HCl and Cl₂ emissions and the associated limits established in the permit were based on a theoretical HCl emission rate of 1.45 lb per ton of chlorinated hydrocarbons and a Cl₂ emission rate of 1.07 lb per ton of chlorinated hydrocarbons. These emission factors were supplied by the Permittee and accepted by IDEM, with the understanding a stack test would be performed to verify their accuracy. The source wide HAP potential to emit, after controls, from the source in 2006, including the chlorination process, are summarized below:

Process	HCl Emissions (ton/yr)	Cl ₂ Emissions (ton/yr)	Total HAP (ton/yr)
Chlorination Processes	8.70	6.42	15.12
Temporary Operations/ Experimental Trials (Research and Development)	3.00	3.00	6.00
All HAP Storage Tanks	1.00	1.00	1.00
HAP Totals	9.70	7.42	16.12

The Permittee estimated the source wide HAP emissions from all storage tanks at approximately 1.0 ton per year in administrative amendment number 089-24393-00227. In the table above, one ton per year was assumed to be all HCl in the HCl emission calculation and all chlorine in the chlorine emission calculation. Also, the research and development emissions were excluded in the determination of the major source definition in accordance with Section 112 of the Clean Air Act and 326 IAC 326 IAC 2-7-1(22), since these emission do not contribute to the product produced or service rendered, in accordance with 326 2-7-1(22)(A)(ii)(BB). This table shows the limited source wide potential to emit of HAPs are less than 10 tons and 25 tons per twelve consecutive month period for any single HAP and combination HAP, respectively. Therefore, the requirements of 40 CFR Part 63, Subpart NNNNN (National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production) and 326 IAC 20 were determined not to be applicable to this source under SPM 089-21470-00227.

On June 12-14, 2006, stack testing was performed to verify the accuracy of the emission factors provided for the chlorination process in SPM 089-21470-00227. It was anticipated the emission factors would prove to be overly conservative by approximately 50%. The actual HCl emission rate was determined to be 0.0019 lb per ton of chlorinated hydrocarbons (1.00 x 10⁻⁶ lb HCl per lb chlorine fed) and the Cl₂ emission rate was determined to be 0.0347 lb per ton of chlorinated hydrocarbons (2.53 x 10⁻⁵ lb chlorine per lb chlorine fed). In addition, the actual production capacity of the chlorination process was found to be incorrect. The chlorination process can only produce 3,818 lb per hour of chlorinated products and not 15,000 lb per hour. Using the actual stack test emission factors and production rates, the revised source wide potential to emit, after controls, is estimated today as follows:

Process	HCl Emissions (ton/yr)	Cl ₂ Emissions (ton/yr)	Total HAP (ton/yr)
Chlorination Processes	0.01	0.33	0.34
Temporary Operations/ Experimental Trials (Research and Development)	3.00	3.00	6.00
Source Wide VOC/HAP Storage Tanks	1.00	1.00	1.00
HiTEC 082	0.00	0.00	0.72
HAP Totals	1.01	1.33	2.06

This table shows the limited source wide potential to emit of HAPs are less than 10 tons and 25 tons per twelve consecutive month period for any single HAP and combination HAP, respectively. Also, the production limit of chlorinated products and chlorine usage are no longer necessary. This is due to the fact the process is incapable of emitting HAPs, in excess of the major source thresholds at the actual maximum capacity of the chlorine feed system and chlorination reactors. Therefore, the requirements of 40 CFR Part 63, Subpart NNNNN (National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production) and 326 IAC 20 are still not applicable to this source.

40 CFR 60.110b, Subpart Kb (Standards of Performance for Volatile Organic Liquid Storage Vessels) and 326 IAC 12

This subpart applies to all storage vessels with a capacity greater than 19,813 gallons that are used to store volatile organic liquids for which construction, reconstruction, or modifications is commenced after July 23, 1984. This subpart does not apply to:

- (1) storage vessels with a capacity greater than or equal to 39,890 gallons storing a liquid with a maximum true vapor pressure less than 0.5 psi (3.5 kPa) or with a capacity greater than or equal to 19,813 gallons but less than 39,890 gallons storing a liquid with a maximum true vapor pressure less than 2.2 psi (15.0 kPa);
- (2) vessels located at coke oven by-product plants;
- (3) pressure vessels designed to operate in excess of 29.7 psi (204.9 kPa) and without emissions to the atmosphere;
- (4) vessels permanently attached to mobile vehicles such as trucks, railcars, barges, or ships;
- (5) vessels located at bulk gasoline plants;
- (6) storage vessels located at service stations;
- (7) vessels used to store beverage alcohol; and
- (8) vessels subject to subpart GGGG of 40 CFR 63.

After reviewing the dates of construction, storage capacity and intended use of all of the tanks located at the source, the Permittee believes the following tanks should be added to the list of tanks subject to the NSPS:

- (1) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1015, constructed in 1987.

In addition, the following tanks are not subject to the NSPS:

- (1) One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as TF-1027, and exhausting at stack identified as Stack TF-1027.
- (2) Two (2) fuel additive blending tanks, identified as TS-1030 and TS-1031, constructed in 1985, and maximum capacity of 11,740 and 15,220 gallons, respectively.
- (3) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1033, constructed in 1986.

- (4) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1039, constructed in 1987.
- (5) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1040, constructed in 1987.
- (6) One (1) storage tank, maximum capacity of 15,540 gallons, identified as TS-1042, constructed in 1989.
- (7) One (1) storage or blend tank, maximum capacity of 14,900 gallons, identified as TS-1043, constructed in 1990.
- (8) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1082, constructed in 1989.
- (9) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2305, constructed in 1990.
- (10) One (1) scrubber liquor tank, identified as TS-2610, constructed in 2001, with a maximum capacity of 10,000 gallons.
- (11) One (1) storage tank, maximum capacity of 16,920 gallons, identified as TS-2619, constructed in 1990.

Typically, the Indiana Department of Environmental Management includes the complete text of all applicable portions of the NSPS in new and significant modifications to Part 70 Operating Permits. At this time, a complete incorporation will not be included since the application only includes revisions to descriptive text and changes to reporting and record keeping requirements.

State Rule Applicability Determination

There are no new state rules applicable to the source due to the modification. The following are addressed for clarity purposes:

326 IAC 2-2 and 2-3 (PSD and Emission Offset)

This modification is not subject to 326 IAC 2-2 (Prevention of Significant Deterioration), since the potential to emit for the proposed emission units are below the PSD significant levels. Therefore, the requirements of 326 IAC 2-2 PSD do not apply to this modification.

This modification is not subject to the requirements of 326 IAC 2-3 (Emission Offset), since the potential to emit for the proposed emission units are below the EO thresholds. Therefore, the requirements of 326 IAC 2-3 EO do not apply to this modification.

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

The operation of this facility will emit less than ten (10) tons per year for a single HAP and less than twenty-five (25) tons per year for a combination of HAPs. Therefore, 326 IAC 2-4.1 does not apply.

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

In accordance with 326 IAC 6-3-1(c)(3), this rule does not apply to this modification since a particulate emission limitation is established in 326 IAC 6.8.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)

326 IAC 6.8 applies to Dover Chemical - Hammond Works since it is specifically listed in 326 IAC 6.8-2-19 (Keil Chemical - Division of Ferro Corporation). On September 30, 2003, IDEM processed a request to change the source name from Keil Chemical - Division of Ferro Corporation to Dover Chemical - Hammond Works.

326 IAC 8-1-6 (New Facilities; General Reduction Requirements)

Since the potential to emit for the HiTEC 082 process is less than twenty-five (25) tons per year, 326 IAC 8-1-6 does not apply to this modification.

326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark, and Floyd Counties)

The source is located in Lake County and has the potential to emit volatile organic compounds (VOCs) at less than twenty-five (25) tons per year and it belongs to source Category (H) Batch Processors; therefore, 326 IAC 8-7-2 does not apply to this source.

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

On or after October 1, 1995, this rule applies to stationary vessels used to store volatile organic liquids located in Clark, Floyd, Lake or Porter Counties, with a capacity of less than 39,000 gallons or stationary vessels with a capacity equal to or greater than 39,000 gallons that store a volatile organic liquid with a maximum true vapor pressure equal to or greater than 0.5 psi but less than 0.75 psi are subject to this rule. This rule does not apply to:

- (1) pressure vessels at coke oven byproduct plants;
- (2) pressure vessels designed to operate in excess of 29.4 psi and without emissions to the atmosphere;
- (3) vessels that are permanently attached to mobile vehicles such as trucks, rail cars, barges, or ships;
- (4) vessels with a design capacity less than or equal to 420,000 gallons used for petroleum or condensate stored, processed, or treated prior to custody transfer;
- (5) vessels located at bulk gasoline plants;
- (6) storage vessels located at gasoline service stations;
- (7) vessels used to store beverage alcohol; and
- (8) stationary vessels that are subject to any provision of 40 CFR 60, Subpart Kb, New Source Performance Standard for Volatile Organic Liquid Storage.

After reviewing the dates of construction, storage capacity and intended use of all of the tanks located at the source, the Permittee believes the following tanks should be added to the list of tanks subject to the 326 IAC 8-9:

- (1) One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as TF-1027, and exhausting at stack identified as Stack TF-1027.
- (2) Two (2) fuel additive blending tanks, identified as TP-1030 and TP-1031, constructed in 1985, and maximum capacity of 11,240 and 15,220.
- (3) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1033, constructed in 1986.
- (4) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1040, constructed in 1987.
- (5) One (1) storage tank, maximum capacity of 15,540 gallons, identified as TS-1042, constructed in 1989.

- (6) One (1) storage or blend tank, maximum capacity of 14,900 gallons, identified as TS-1043, constructed in 1990.
- (7) One (1) storage tank, maximum capacity of 4,010 gallons, identified as TS-1081, constructed in 1989.
- (8) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1082, constructed in 1989.
- (9) One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2252, constructed prior to 1976.
- (10) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2271, constructed in 2005.
- (11) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2272, constructed in 2005.
- (12) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2605, constructed in 1990.
- (13) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2610, constructed in 1990.
- (14) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2611, constructed in 1990.
- (15) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.
- (16) One (1) storage tank, maximum capacity of 16,920 gallons, identified as TS-2619, constructed in 1990.

After reviewing the dates of construction, storage capacity and intended use of all of the tanks located at the source, the Permittee believes the following tanks should be deleted to the list of tanks subject to 326 IAC 8-9:

- (1) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1015, constructed in 1987.
- (2) Tank TS-1083 has been removed from the source.
- (3) Tank TS-2042 has been removed from the source.
- (4) Tank TS-2251 has been removed from the source.
- (5) One (1) reactor, constructed in 1990, identified as TR-2630, with a maximum capacity of 4,000 gallons.
- (6) One (1) stripper, constructed in 1980, identified as TP-2541, with a maximum capacity of 3,700 gallons, controlled by scrubber TP-2589.
- (7) One (1) decanter feed tank, maximum capacity of 1,630 gallons, identified as TP-2780, constructed in 1995.

Compliance Determination and Monitoring Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions; however, these provisions do not always fulfill the requirement for a 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 Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

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

Compliance Determination Requirements

There are no new compliance determination requirements as a result of this modification. However, the Permittee complied with the one time stack testing requirement, listed in Condition D.2.6 - Testing Requirements, and has requested the removal of the condition from the permit. All other Compliance Determination and Monitoring requirements remain in effect.

Compliance Monitoring Requirements

There are no new compliance monitoring requirements proposed in this modification.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T089-7797-00227. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

- (a) All references to IDEM, OAQ's and HDEM's mailing address have been revised as follows:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, **MC61-53 IGCN 1003**
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Modeling Section, Office of Air Quality
100 North Senate Avenue, **MC61-50 IGCN 1003**
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, **MC61-52 IGCN 1003**
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, **MC61-53 IGCN 1003**
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, **MC61-53 IGCN 1003**
Indianapolis, Indiana 46204-2251

Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue, **MC61-53 IGCN 1003**
Indianapolis, Indiana 46204-2251

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 463270

- (b) To clarify the permit term and the term of the conditions, original Conditions B.2 – Permit Term, B.13 – Prior Permits Superseded, and B.17 – Permit Renewal have been modified.
- (c) For clarification purposes, Condition B.20 – Operational Flexibility has been revised. Specifically, backup fuel switches are no longer considered alternative operating scenarios.
- (d) Condition C.1 - Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) Pounds per Hour has been removed. In accordance with 326 IAC 6-3-1(c)(3), Dover Chemical Corporation, formerly known as Keil Chemical - Division of Ferro Corporation, has a particulate emission limitation established in 326 IAC 6.8-2-19; therefore 326 IAC 6-3 does not apply.
- (e) Revisions were made to the Emission Statement condition (original Condition C.17) to incorporate the revisions to 326 IAC 2-6 that became effective March 27, 2004. The revised rule was published in the April 1, 2004 Indiana Register.
- (f) The clean unit and pollution control project provisions of the U.S. EPA's New Source Review Reform Rules were vacated on June 24, 2005 by a United States Court of Appeals for the District of Columbia Circuit decision. The OAQ plans to remove the vacated provisions from 326 IAC 2 at the next state rulemaking opportunity. Paragraph (c) of Condition C.17, Record Keeping Requirements, has been revised to remove references to the clean unit and pollution control project provisions.

Revisions have been made to the Section C – General Recordkeeping and Section C – General Reporting Requirements (original Conditions C.18 and C.19) to reflect NSR (New Source Review) reform provisions at the major sources.
- (g) Minor typographical and formatting errors have been made throughout the permit. The table of contents and permit condition titles have been updated to make them consistent with each other.
- (h) Section A and Section D changes are shown and discussed after the Section B and Section C changes. Section B and Section C changes referenced above are shown below:

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]~~

- ~~(a) — This permit, T089-7797-00227, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.~~
- ~~(b) — If IDEM, OAQ and Hammond Department of Environmental Management upon receiving a timely and complete renewal permit application, fail to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.~~

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

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

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

~~B.4 — Enforceability [326 IAC 2-7-7]~~

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

~~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, and HDEM within a reasonable time, any information that IDEM, OAQ, HDEM 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, and HDEM, 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.~~

~~(c) A responsible official is defined at 326 IAC 2-7-1(34).~~

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

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

~~Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

~~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, and HDEM 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, and HDEM may require to determine the compliance status of the source.~~

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

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

~~(a) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, for the source as described in 326 IAC 1-6-3. At a minimum, the PMPs shall include:~~

- ~~(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;~~
- ~~(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and~~
- ~~(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.~~

~~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
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

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

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

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

~~(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:~~

- ~~(1) An emergency occurred and the Permittee can, to the extent possible, identify the~~

~~causes of the emergency;~~

- ~~(2) — The permitted facility was at the time being properly operated;~~
- ~~(3) — During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;~~
- ~~(4) — For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and HDEM 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: 317-233-0178 (asks for Compliance Section)
Facsimile Number: 317-233-6865
Telephone Number: (219) 853-6306
Facsimile Number: (219) 853-6343 (FAX)~~

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

~~Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room — 304
Hammond, Indiana 46327~~

~~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, and HDEM 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, and HDEM 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 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, or HDEM 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, or HDEM 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, or HDEM has issued the modification. [326 IAC 2-7-12(b)(8)]~~

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

- ~~(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) — deleted~~by this permit.~~
- ~~(b) — This permit supersedes all previous registrations and permits.~~

~~B.14 — Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]~~

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

~~B.15 — Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]~~

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

~~Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room — 304
Hammond, Indiana 46327~~

~~using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report. The Quarterly Deviation and Compliance Monitoring Report does require the certification~~

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

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

~~B.16 — Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]~~

- (a) — This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. ~~[326 IAC 2-7-5(6)(C)]~~ The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) — This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ, or HDEM 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, or HDEM 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, or HDEM at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, or HDEM may provide a shorter time period in the case of an emergency. ~~[326 IAC 2-7-9(c)]~~

~~B.17 — Permit Renewal [326 IAC 2-7-4]~~

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room — 304
Hammond, Indiana 46327

~~(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, and HDEM on or before the date it is due.~~

~~(2) — If IDEM, OAQ, and HDEM 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, and HDEM, 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, and HDEM, 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, and HDEM 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.~~

~~B.18 — Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]~~

~~(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
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

~~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)]~~

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

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

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

- ~~(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:~~

- ~~(1) The changes are not modifications under any provision of Title I of the Clean Air Act;~~
- ~~(2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;~~
- ~~(3) The changes do not result in emissions, which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);~~
- ~~(4) The Permittee notifies the:~~

~~Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

~~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, and HDEM 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.~~

~~B.21 — Source Modification Requirement [326 IAC 2-7-10.5] [326 IAC 2-2-2] [326 IAC 2-3-2]~~

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

~~(b) — Any modification at an existing major source is governed by the requirements of 326 IAC 2-2-2 and 326 IAC 2-3-2.~~

~~B.22 — Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-30-3-1]~~

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

~~(a) — Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;~~

~~(b) — As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;~~

~~(c) — As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;~~

- (d) ~~As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and~~
- (e) ~~As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.~~

~~B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]~~

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

~~Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

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

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

~~B.24 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1-1-7]~~

- (a) ~~The Permittee shall pay annual fees to IDEM, OAQ, and HDEM 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, and HDEM 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 (asks for OAQ, Billing, Licensing and Training Section), to determine the appropriate permit fee.~~

~~B.25 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] [326 IAC 1-1-6]~~

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

SECTION 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, T089-7797-00227, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ and HDEM, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-7-7]

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

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 and HDEM, within a reasonable time, any information that IDEM, OAQ and HDEM 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 and HDEM 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 the "responsible official" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

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

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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 and HDEM, 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 and HDEM may require to determine the compliance status of the source.

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

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

- (a) The Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, for the source as described in 326 IAC 1-6-3. At a minimum, the PMPs shall include:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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, MC61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room – 304
Hammond, Indiana 46320

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, and HDEM upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and HDEM. IDEM, OAQ, and HDEM may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-

1(34).

- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

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

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, and HDEM and Northwest Regional Office 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: 317-233-0178 (ask for Compliance Section)

Facsimile Number: 317-233-6865

Hammond Department of Environmental Management phone:

(219) 853-6306; fax: (219) 853-6343

Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267.

- (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

and

**Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320**

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 and HDEM 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 and HDEM 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 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, or HDEM 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, or HDEM 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, or HDEM has issued the modification. [326 IAC 2-7-12(b)(8)]**

B.13 Prior Permits Superseded [326 IAC 2-1.1-9.5][326 IAC 2-7-10.5]

- (a) All terms and conditions of permits established prior to T089-7797-00227 and issued pursuant to permitting programs approved into the state implementation plan have been either:**
 - (1) incorporated as originally stated,**

- (2) revised under 326 IAC 2-7-10.5, or
- (3) deleted under 326 IAC 2-7-10.5.

- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

B.14 Termination of Right to Operate [326 IAC 2-7-10][326 IAC 2-7-4(a)]

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

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

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

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

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

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

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)][326 IAC 2-7-8(a)][326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ and HDEM 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 and HDEM 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 and HDEM at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ and HDEM may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]**

B.17 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and HDEM 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**

and

**Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320**

- (b) A timely renewal application is one that is:**
 - (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and**
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and HDEM on or before the date it is due.**
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ and HDEM 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 and HDEM any additional information identified as being needed to process the application.**

B.18 Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]

- (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
- and
- Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320
- 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)]

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

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

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

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b),(c), or (e) without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
 - (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

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

and

**Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320**

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 and HDEM 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.21 Source Modification Requirement [326 IAC 2-7-10.5]

- (a) A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-7-10.5.**
- (b) Any modification at an existing major source is governed by the requirements of 326 IAC 2-3 (for sources located in NA areas).**

B.22 Inspection and Entry [326 IAC 2-7-6][IC 13-14-2-2][IC 13-30-3-1][IC 13-17-3-2]

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, and HDEM or an authorized representative to perform the following:

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

B.23 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

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

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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

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

B.24 Annual Fee Payment [326 IAC 2-7-19][326 IAC 2-7-5(7)][326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees to IDEM, OAQ and HDEM 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 and HDEM the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-4230 (ask for OAQ, Billing, Licensing, and Training Section), to determine the appropriate permit fee.

B.25 Advanced Source Modification Approval [326 IAC 2-7-5(16)][326 IAC 2-7-10.5]

- (a) The requirements to obtain a source modification approval under 326 IAC 2-7-10.5 or a permit modification under 326 IAC 2-7-12 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3.
- (b) Pursuant to 326 IAC 2-1.1-9 any permit authorizing construction may be revoked if construction of the emission unit has not commenced within eighteen (18) months from the date of issuance of the permit, or if during the construction, work is suspended for a continuous period of one (1) year or more.

B.26 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314][326 IAC 1-1-6]

For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or

information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

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

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

C.2 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.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

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

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

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

C.5 Fugitive Dust Emissions [326 IAC 6-4]

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

C.6 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(e) and (d), and 326 IAC 1-7-4(a), (b), and (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
Indianapolis, Indiana 46204-2251~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

~~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). 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 14-10-4, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.~~
- ~~(f) — Demolition and renovation
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).~~

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

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

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

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

~~Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

~~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 and HDEM not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, and HDEM 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]

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

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

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

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

~~provided the Permittee notifies:~~

~~Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254~~

~~and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

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

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

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

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

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

~~C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]~~

~~(a) When required by any condition of this permit, an analog instrument used to measure a parameter related to the operation of an air pollution control device shall have a scale such that the expected maximum reading for the normal range shall be no less than twenty percent (20%) of full scale.~~

~~(b) The Permittee may request that the IDEM, OAQ approve the use of an instrument that does not meet the above specifications provided the Permittee can demonstrate that an alternative instrument specification will adequately ensure compliance with permit conditions requiring the measurement of the parameters.~~

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

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

~~(Emergency Reduction Plans; Submission):~~

~~(a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on August 29, 1996.~~

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

~~(c) Upon direct notification by IDEM, OAQ, and HDEM, 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.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]~~

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

- ~~(a) A Risk Management Plan was prepared as required by 40 CFR 68 and submitted to U.S. EPA. U.S. EPA received the RMP on June 21, 1999.~~

~~C.15 Response to Excursions or Exceedances [326 IAC 2-7-5] [326 IAC 2-7-6]~~

- ~~(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.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]~~

- ~~(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.~~
- ~~(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM,~~

~~OAQ that retesting in one hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.~~

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

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

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

~~C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)] [326 IAC 2-7-5(7)] [326 IAC 2-7-19(c)] [326 IAC 2-6]~~

~~(a) Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:~~

~~(1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);~~

~~(2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1 (32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.~~

~~The statement must be submitted to:~~

~~Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254
and~~

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

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

~~(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 purpose of fee assessment.~~

~~The statement must be submitted to:~~

~~Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254~~

~~and~~

Hammond Department of Environmental Management
5925 Calumet Avenue, Room—304
Hammond, Indiana 46327

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

- (c) ~~The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and HDEM on or before the date it is due.~~

~~C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-3]~~

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

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

- (c) ~~If there is a reasonable possibility that a “project” (as defined in 326 IAC 2-3-1 (II)) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a “major modification” (as defined in 326 IAC 2-3-1 (z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-3-1 (mm)), the Permittee shall comply with following:~~

- (1) ~~Before beginning actual construction of the “project” (as defined in 326 IAC 2-3-1 (II)) at an existing emissions unit, document and maintain the following records:~~

~~(A) A description of the project.~~

~~(B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.~~

~~(C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:~~

~~(i) Baseline actual emissions;~~

~~(ii) Projected actual emissions;~~

~~(iii) Amount of emissions excluded under section 326 IAC 2-3-1(mm)(2)(A)(3); and~~

~~(iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.~~

- (2) ~~Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and~~

- (3) ~~Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.~~

~~C.19 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-3]~~

- ~~(a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).~~
- ~~(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:~~
- ~~Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2254~~
- ~~and~~
- ~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~
- ~~(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, and HDEM 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, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.~~
- ~~(f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and HDEM:~~
- ~~(1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C - General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and~~
- ~~(2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).~~
- ~~(g) The report for a project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:~~
- ~~(1) The name, address, and telephone number of the major stationary source.~~

- (2) ~~The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.~~
- (3) ~~The emissions calculated under the actual-to-projected-actual test stated in 326 IAC 2-3-2(c)(3).~~
- (4) ~~Any other information that the Permittee deems fit to include in this report,~~

Reports required in this part shall be submitted to:

~~Indiana Department of Environmental Management
Air Compliance Section, Office of Air Quality
100 North Senate Avenue
Indianapolis, Indiana 46204-2251~~

and

~~Hammond Department of Environmental Management
5925 Calumet Avenue, Room 304
Hammond, Indiana 46327~~

- (h) ~~The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and HDEM. The general public may request this information from the IDEM, OAQ and HDEM under 326 IAC 17.1.~~

Stratospheric Ozone Protection

G.20 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION 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.

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.

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 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), and 326 IAC 1-7-4(a), (b), and (d) are not federally enforceable.

C.6 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**

and

**Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320**

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

C.7 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**

and

**Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320**

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 and HDEM 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 and HDEM not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ and HDEM if the Permittee submits to IDEM, OAQ and HDEM, 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.8 Compliance Requirements [326 IAC 2-1.1-11]

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

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

C.9 Compliance Monitoring [326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

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

and

**Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320**

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

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

C.11 Instrument Specifications [326 IAC 2-1.1-11][326 IAC 2-7-5(3)][326 IAC 2-7-6(1)]

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

Corrective Actions and Response Steps [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]

(Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on August 29, 1996.**
- (b) If the ERP is disapproved by IDEM, OAQ, and HDEM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.**
- (c) Upon direct notification by IDEM, OAQ, and HDEM, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level.
[326 IAC 1-5-3]**

C.13 Risk Management Plan [326 IAC 2-7-5(12)][40 CFR 68]

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

- (a) A Risk Management Plan was prepared as required by 40 CFR 68 and submitted to U.S. EPA. U.S. EPA received the RMP on June 21, 1999.**

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

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

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

 - (1) initial inspection and evaluation;**
 - (2) recording that operations returned to normal without operator action (such as through response by a computerized distribution control system); or**
 - (3) any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.**
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:**

 - (1) monitoring results;**
 - (2) review of operation and maintenance procedures and records; and/or**
 - (3) inspection of the control device, associated capture system, and the process.**
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.**
- (e) The Permittee shall maintain the following records:**

 - (1) monitoring data;**
 - (2) monitor performance data, if applicable; and**
 - (3) corrective actions taken.**

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

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

The response action documents submitted pursuant to this condition do require the

certification by the "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]**

- (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 purpose of fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Quality
100 North Senate Avenue, MC 61-50 IGCN 1003
Indianapolis, Indiana 46204-2251

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

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

- (c) The emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ and HDEM on or before the date it is due.

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

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

records to the Commissioner or HDEM within a reasonable time.

- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.**
- (c) If there is a reasonable possibility that a “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a “major modification” (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1(rr) and/or 326 IAC 2-3-1(mm)), the Permittee shall comply with following:**
- (1) Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, document and maintain the following records:**
- (A) A description of the project.**
- (B) Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.**
- (C) A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:**
- (i) Baseline actual emissions;**
- (ii) Projected actual emissions;**
- (iii) Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1 (mm)(2)(A)(iii); and**
- (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.**
- (2) Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and**
- (3) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.**

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

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:
- Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- and
- Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320
- (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 and HDEM 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, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C - General Record Keeping Requirements for any "project" (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (II)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and HDEM:
- (1) The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and

- (2) The emissions differ from the preconstruction projection as documented and maintained under Section C - General Record Keeping Requirements (c)(1)(C)(ii).**

- (g) The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:**
 - (1) The name, address, and telephone number of the major stationary source.**
 - (2) The annual emissions calculated in accordance with (c)(2) and (3) in Section C - General Record Keeping Requirements.**
 - (3) The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).**
 - (4) Any other information that the Permittee deems fit to include in this report.**

Reports required in this part shall be submitted to:

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

and

Hammond Department of Environmental Management
5925 Calumet Avenue, Room - 304
Hammond, Indiana 46320

- (h) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and HDEM. The general public may request this information from the IDEM, OAQ and HDEM under 326 IAC 17.1.**

Stratospheric Ozone Protection

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

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

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

Modified Section A and Section D Conditions:

Modification No. 1:

Revised Emission Units and Pollution Control Equipment Summary due to the proposed modification:

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

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

SECTION D.1

(a) Group of Boilers

- (1) One (1) Cleaver-Brooks natural gas fired boiler, Model CB-300HP, identified as B-4, constructed in 1974, rated at 12.55 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3401.
- (2) One (1) Cleaver-Brooks natural gas fired boiler, Model CB-200-500, identified as B-5, constructed in 1980, rated at 20.92 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3402.
- (3) One (1) Superior-Mohawk natural gas fired boiler, identified as B-6, constructed in 1988, rated at 20 MMBtu per hour, and exhausting at one (1) stack, identified as GB-3403.

SECTION D.2 Chlorination system

with a maximum rated capacity of 35,000 pounds per hour of **chlorine feed to produce short to long chain chlorination paraffins, olefins, waxes, polybutene, and 4,821 pounds per hour of muriatic acid. The chlorination system consists of the following systems:** ~~chlorinated metal working products, 10,000 pounds per hour of chlorinated polybutene intermediate products, and 12,000 pounds per hour of muriatic acid consisting of the following equipment:~~

(b) The system consisting of:

- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), **TR-2003** (constructed before 1976), **TR-2004** (constructed before 1976), **TR-2005** (constructed before 1976), **TR-2006** (constructed before 1976), **TR-2007** (constructed in 1977), **TR-2008** (constructed in 1977), **TR-2010** (constructed in 1983), and **TR-2014** (constructed in 1990), ~~and~~ with a maximum capacity of 2,000 gallons each;
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), **TR-2009** (constructed in 1982), **TR-2015** (constructed in 1990), **TR-2016** (constructed in 1990), and **TR-2017** (constructed in 1993), ~~and~~ with a maximum capacity of 4,000 gallons each;
- (3) One (1) sulfur monochloride tank, identified as TS-1058, constructed in 1981, ~~and~~ with a maximum capacity of 5,470 gallons;
- (4) One (1) acid tower condensate neutralization tank, identified as TP-2030, constructed before 1976, ~~and~~ with a maximum capacity of 500 gallons;
- (5) Two (2) chlorine railcar track spots, identified as RC-0101 and RC-0201, constructed before 1976, ~~and~~ with a maximum capacity of 1 railcar (containing at most 180,600 pounds) each;

- (6) One (1) acid tower, identified as CB-2060, constructed **before 1976**~~in 2005~~, and with a maximum capacity of **4,800** ~~42,000~~ lb/hr muriatic acid;
- (7) One (1) tower product acid tank, identified as TP-2033, constructed before 1976, ~~and~~ with a maximum capacity of 560-gallons;
- (8) One (1) tower water feed tank, identified as TP-2060 (constructed in 1996), ~~and~~ with a maximum capacity of 560-gallons; and
- (9) ~~Two~~ **One (1)** chlorine vaporizers, identified as XV-2050 **and XV-2051**, constructed **before 1976**~~in 2005~~, and with a maximum **feed** capacity of ~~8,000~~ **3,000** lb/hr chlorine **combined**;

all controlled by seven (7) scrubbers, identified as TP-2061 (constructed before 1976), TP-2062 (constructed before 1976), TP-2063 (constructed before 1976), TP-2064 (constructed before 1976), TP-2065 (constructed in 1977), TP-2066 (constructed in 1977), and TP-2067 (constructed in 1995), and exhausting at seven (7) stacks, identified as Stacks TP-2061 to 2067.

(c) The system consisting of:

- (1) Three (3) muriatic acid tanks, identified as TS-1090 (constructed in 1979), TS-1091 (constructed in 1980), and TS-1093 (constructed in 2000), ~~and~~ with a maximum capacity of ~~44,900~~, 16,000, **14,900** and 16,000 gallons, respectively;
- (2) Two (2) hypochlorite reduction tanks, identified as TP-3494, and TP-3495 (constructed in 1993), ~~and~~ with a maximum capacity of 6,250 gallons each;
- ~~(3) Two (2) chlorinated polybutene storage tanks, identified as TS-1019, and TS-1023 (constructed in 1997), and with a maximum capacity of 27,950 gallons each; and~~
- ~~(3)~~ **(4)** One (1) muriatic acid tank truck loading station, constructed in 1979, ~~and~~ with a maximum capacity of 1 truck;

controlled by one (1) caustic scrubber identified as TP-109930 constructed in 1980 exhausting at one (1) stack, identified as Stack TP-109930.

(d) The system consisting of:

- (1) One (1) chlorinated product tank, identified as TS-2041, constructed before 1976, with a maximum capacity of 4,000 gallons;
- (2) Two (2) chlorinated product tanks, identified as TS-2043, and TS-2044, constructed before 1976, ~~and~~ with a maximum capacity of 4,100 gallons each; and
- (3) One (1) chlorinated product-drumming tank, identified as TS-2012, constructed in 1978, ~~and~~ with a maximum capacity of 1,500 gallons.

SECTION D.3 Sulfurization system

with a maximum rated capacity of 6,000 pounds per hour of sulfurized products consisting of the following equipment:

(e) The system consisting of:

- (1) Three (3) sulfurization reactors, identified as TR-2120, **TR-2121**, and **TR-2123**, constructed before 1976, with maximum capacity of 3,700, 3,700, and 7,500 gallons, respectively, controlled by two (2) caustic scrubbers **operating in series**, identified as TP-2162 and TP-2163, **followed by an activated carbon system for odor management** and exhausting at Stack TP-2163. **One (1) reflux condenser associated with sulfurization reactor TR-2120.**
- (2) Five (5) blowing tanks, identified as **TP-2150** (constructed in 1977), **TP-2151** (constructed in 1977), **TP-2152** (constructed in 1977), **TP-2153** (constructed in 1977),; and **TP-2154** (constructed in 1997), with maximum capacity of 11,000, 9,650, 11,500, 4,000, and 7,600 gallons, respectively, venting to a blowing tank knockout tank identified as TP-2159; controlled by two (2) caustic scrubbers, identified as TP-2162 and TP-2163 and exhausting at Stack TP-2163.
- (3) One (1) knockout storage tank, identified as ~~TSP-2164~~, constructed in 1976, with a maximum capacity of 1,500 gallons, exhausted to a **containment scrubber** ~~caustic sloop tank~~, identified as TP-2167, constructed in 1995, and exhausting at Stack TP-2167.
- (4) One (1) scrubber liquor storage tank, identified as TS-1029, constructed in 1979, ~~and~~ with a maximum capacity of 15,880 gallons.
- (5) ~~One (1) reflux condenser associated with sulfurization reactor TR-2120.~~ **Two (2) molten sulfur storage tanks, identified as TS-2190 and TP-2190, constructed in 1976.**
- (6) **One (1) filter feed tank, maximum capacity of 3,000 gallons, identified as TP-2207, constructed prior to 1976.**

SECTION D.4 Hi-Temp System

with a maximum rated capacity of 4,200 pounds per hour of hi-temp products consisting of the following equipment:

- (f) The system consisting of:
 - (1) One (1) reactor, identified as TR-2620, constructed in 1989, ~~and~~ with a maximum capacity of 4,000 gallons;
 - (2) Two (2) recovered methanol tanks, identified as TS-2602 and TS-2603, constructed in 1989, ~~and~~ with maximum capacity of 2,500, and 4,000 gallons, respectively;
 - (3) One (1) sludge tank, identified as TP-2604, constructed in 1989, ~~and~~ with a maximum capacity of 750 gallons; **equipped with a sludge drumming operation followed by an activated carbon filter for odor management;**
 - (4) One (1) scrubber liquor tank, identified as TS-2610, constructed in 2001, ~~and~~ with a maximum capacity of 10,000 gallons; and
 - (5) One (1) intermediate holding tank, identified as TP-2601, constructed in 1989, ~~and~~ with a maximum capacity of 4,550 gallons;

— **all** controlled by two (2) caustic scrubbers identified as TP-2624 and TP-2626, constructed in 1989; and one flare, identified as ~~GBG~~ -2627, constructed in 1990, in series, and exhausting at one (1) stack, identified as Stack ~~GBG~~-2627.
~~Alternately, the reactors identified in item (f.1) can be controlled by one (1)~~

~~scrubber identified as TP-2636, constructed in 1990; and exhausting at one (1) stack identified as Stack TP-2636.~~

(g) One (1) scrubber liquor truck loading station, constructed in 1989, controlled by a carbon drum, identified as TF-2610 constructed in 2001.

~~(h) A filtration system consisting of~~

~~(h) (1) One (1) pre-coat tank, identified as TP-2722, constructed in 1995, and with a maximum capacity of 1,300 gallons;~~

~~(i) (2) One (1) filter feed tank, identified as TP-2720, constructed in 1995, and with a maximum capacity of 5,000 gallons, controlled by a carbon drum, identified as TF-2728 and exhausting at a stack identified as Stack TP-2728;~~

~~(j) (3) One (1) filtrate tank, identified as TP-2730, constructed in 1995, and with a maximum capacity of 5,000 gallons; and.~~

~~(k) (4) One (1) filter, identified as GF-272444, constructed in 1995, and with a maximum capacity of 69 cubic feet of filter cake, and one (1) filter, identified as GF-2734, constructed in 2005, with a maximum capacity of 41 cubic feet of filter cake, both controlled by a carbon drum, identified as TF-2728, exhausting at stack TF-2728;~~

~~controlled by a carbon drum, identified as GF-2728, and exhausting at a stack, identified as Stack GF-2728.~~

(l) **One (1) reactor, constructed in 1993, identified as TP-2553, with a maximum capacity of 2,100 gallons, controlled by scrubber TP-2589.**

(m) **One (1) filter feed tank, constructed in 1993, identified as TP-2554, with a maximum capacity of 2,100 gallons.**

(n) **Three (3) wash water tanks, constructed in 1996, identified as TP-2556, TP-2557 and TP-2558, each with a maximum capacity of 700 gallons.**

(o) **One (1) reactor, constructed in 1990, identified as TR-2630, with a maximum capacity of 4,000 gallons.**

(p) **One (1) reactor, constructed in 2005, identified as TR-2541, with a maximum capacity of 3,500 gallons, controlled by scrubber TP-2589.**

SECTION D.5 Fuel Additive system

with a maximum rated capacity of 12,000 pounds per hour of fuel additives (prior to blending) consisting of the following equipment:

(iq) The system consisting of:

(1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), **TR-2003** (constructed before 1976), **TR-2004** (constructed before 1976), **TR-2005** (constructed before 1976), **TR-2006** (constructed before 1976), **TR-2007** (constructed in 1977), **TR-2008** (constructed in 1977), **TR-2010** (constructed in 1983), and **TR-2014** (constructed in 1990), ~~and~~ with a maximum capacity of 2,000 gallons each;

(2) Five (5) reactors, identified as TR-2002 (constructed in 1988), **TR-2009**

(constructed in 1982), **TR-2015** (constructed in 1990), **TR-2016** (constructed in 1990), and **TR-2017** (constructed in 1993), and with a maximum capacity of 4,000 gallons each;

- (3) One (1) EDA recycle tank, identified as **TSP-2052** (constructed in 1985), and with a maximum capacity of 1,700 gallons;

controlled by a scrubber identified as TP-2072 (constructed in 1985), and exhausting at a stack identified as Stack TP-2072.

- (jr) One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as **TGF-10279**, and exhausting at stack identified as Stack **TGF-10297**.

- (ks) ~~Two (2) continuous wash systems and two (2) stripping columns identified as CD-2319 (constructed in 1985) and CD-2350 (constructed in 1990), controlled by two (2) vent condensers identified as XT-2313, and XT-2350, and exhausting at stacks identified as Stack XT-2313, and Stack XT-2350.~~
One (1) continuous wash system consisting of tanks TP-2339, TP-2328, TP-2334, TP-2333, TP-2331, TP-2330, TP-2340, TP-2349, TP-2348, one (1) 300 gallon feed tank identified as TP-2329, one (1) butanol recovery column identified as CS-2329, and one stripping column identified as CD-2319, controlled by one (1) vent condenser identified as XT-2313 and exhausting to stack XT-2313.

One (1) continuous wash system consisting of tanks TP-2350, TP-2359, TP-2353, TP-2354, TP-2351, TP-2352, TP-2355, TP-2356, TP-2357, one (1) butanol water feed tank identified as TP-2358, one (1) butanol recovery column identified as CS-2368, and one stripping column identified as CD-2350, controlled by one (1) vent condenser identified as XT-2350 and exhausting to stack XT-2350.

- ~~(l) Two (2) solvent storage tanks, identified as TS-1026 (constructed in 1985), and TS-2618 (constructed in 1990), and maximum capacity of 28,760, and 10,570 gallons, respectively.~~

- ~~(tm) Four- (4) product rundown tanks, and identified as TPS-1035, TPS-1036 (both constructed in 1985), TP-2360, and TP-2361 (both constructed in 1990), and maximum capacity of 6,800 gallons each.~~

- ~~(ua) Three (3) fuel additive blending tanks, identified as TPS-1030, TPS-1031, and TPS-1032 (all constructed in 1985), and with maximum capacities of 11,740, 15,220, and 11,740 gallons, respectively.~~

SECTION D.6 Miscellaneous system

With a maximum rated capacity of 3,000 pounds per hour consisting of the following equipment:

- (ve) Five reactors, identified as TR-2224 (constructed in 1980), **TR-2225** (constructed before 1976), **TR-2226** (constructed before 1976), **TR-2227** (constructed before 1976), and **TR-2228** (constructed before 1976), maximum capacity of 5,500, 2,000, 7,000, 400, and 7,500 gallons, respectively; controlled by two (2) wet scrubbers, identified as PE-2228, and TP-2332, and exhausting at stacks identified as Stack PE-2228, and Stack TP-2332.
- (wp) Two (2) reactors, identified as TR-2329 (constructed in 1986), and TR-2322 (constructed in 1984), maximum capacity of 1,500, and 2,000 gallons, respectively, ~~controlled by a demister (constructed in 1989), identified as TP-2322 and exhausting at stack, identified as Stack TP-2322.~~

Revisions to the list of specifically regulated insignificant activities as a result of this modifications are

as follows:

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

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

SECTION D.7 VOC STORAGE TANKS

- (xq) Storage tanks emitting less than one (1) ton per year collectively of a combination of HAPs and less than fifteen (15) pounds per day of VOC. [326 IAC 12, and 40 CFR 60.112b(a)]
- (1) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1001, constructed in 1997.
 - (2) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1002, constructed in 1997.
 - (3) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1003, constructed in 1993.
 - (4) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1004, constructed in 1978.
 - (5) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1005, constructed in 1978.
 - (6) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1006, constructed in 1978.
 - (7) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1007, constructed in 1978.
 - (8) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1008, constructed in 1978.
 - (9) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1009, constructed in 1978.
 - (10) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1010, constructed in 1978.
 - (11) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1011, constructed in 1978.
 - (12) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1012, constructed in 1978.
 - (13) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1013, constructed in 1978.
 - (14) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1014, constructed in 1978.
 - (15) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1015, constructed in 1987.
 - (16) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1016,

constructed in 1978.

- (17) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1017, constructed in 1978.
- (18) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1018, constructed in 1978.
- (19) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1019, constructed in 1996, **exhausting to a scrubber identified as TP-1099.**
- (20) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1020, constructed in 1997.
- (21) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1021, constructed in 1997.
- (22) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1022, constructed in 1996.
- (23) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1023, constructed in 1996.
- (24) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1024, constructed in 1997.
- (25) One (1) storage tank, maximum capacity of 28,760 gallons, identified as TS-1026, constructed in 1980.
- ~~(26) One (1) storage tank, maximum capacity of 14,930 gallons, identified as TS-1027, constructed in 1989.~~
- (276) One (1) storage tank, maximum capacity of 11,075 gallons, identified as TS-1028, constructed in 1980.
- ~~(28) One (1) storage tank, maximum capacity of 15,880 gallons, identified as TS-1029, constructed in 1980.~~
- ~~(29) One (1) blend tank, maximum capacity of 11,740 gallons, identified as TPS-1030, constructed in 1986.~~
- ~~(30) One (1) blend tank, maximum capacity of 15,220 gallons, identified as TPS-1031, constructed in 1986.~~
- ~~(31) One (1) blend tank, maximum capacity of 11,740 gallons, identified as TPS-1032, constructed in 1986.~~
- (3227) One (1) ~~POBA~~ storage tank, maximum capacity of 15,220 gallons, identified as TS-1033, constructed in 1986.
- (3328) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1039, constructed in 1987.
- (3429) One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1040, constructed in 1987.
- (3530) One (1) **storageblend** tank, maximum capacity of 15,540 gallons, identified as TS-

1042, constructed in 1989.

- (3631) One (1) storage or blend tank, maximum capacity of 14,900 gallons, identified as TS-1043, constructed in 1990.
- (372) One (1) wax storage tank, maximum capacity of 20,390 gallons, identified as TS-1056, constructed in 1978.
- (383) One (1) storage tank, maximum capacity of 20,390 gallons, identified as TS-1057, constructed in 1978.
- (394) One (1) storage tank, maximum capacity of 4,010 gallons, identified as TS-1081, constructed in 1989.
- (4035) One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1082, constructed in 1989.
- ~~(41) One (1) storage tank, maximum capacity of 1,320 gallons, identified as TS-1083, constructed in 1976.~~
- (4236) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2160, constructed before 1976.
- (4337) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2163, constructed before 1976.
- (4438) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2168, constructed before 1976.
- (4539) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2169, constructed before 1976.
- (460) One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2170, constructed before 1976.
- (417) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2178, constructed in 1998.
- (482) One (1) storage tank, maximum capacity of 2,600 gallons, identified as TS-2209, constructed before 1979.
- (493) One (1) storage tank, maximum capacity of 10,800 gallons, identified as TS-2218, constructed before 1979.
- ~~(4450) One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2251, constructed before 1976.~~ **One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2252, constructed prior to 1976.**
- (5145) One (1) storage tank, maximum capacity of 6,760 gallons, identified as TS-2253, constructed before 1976.
- (5246) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2255, constructed before 1976.

- (~~5347~~) One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2264, constructed before 1979.
- (~~5448~~) One (1) storage tank, maximum capacity of 31,070 gallons, identified as TS-2265, constructed before 1979.
- (49) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2271, constructed in 2005.**
- (50) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2272, constructed in 2005.**
- (~~515~~) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2275, constructed before 1979.
- (~~526~~) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2276, constructed before 1979.
- (~~537~~) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2277, constructed before 1976.
- (~~5458~~) One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2279, constructed before 1976.
- (~~595~~) One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2280, constructed before 1976.
- (~~6056~~) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-26305, constructed in 1990.
- (~~6157~~) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2315, constructed in 1990.
- (~~62~~) ~~One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.~~
- (~~5863~~) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2362, constructed in 1990.
- (~~5964~~) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2364, constructed in 1990.
- (~~605~~) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2365, constructed in 1990.
- (~~616~~) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2367, constructed in 1990.
- (~~627~~) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2606, constructed in 1989.
- (~~68~~) ~~One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2610, constructed in 1990.~~
- (63) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2611, constructed in 1990.**

- (649) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2612, constructed in 1990.
- (6570) One (1) storage tank, maximum capacity of 30,080 gallons, identified as TS-2613, constructed in 1990.
- (66) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.**
- (7467) One (1) storage tank, maximum capacity of 16,920 gallons, identified as TS-2619, constructed in 1990.
- (6872) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2550, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.
- (6973) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2551, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.
- (704) One (1) storage tank, maximum capacity of 2,970 gallons, identified as TP-2617, constructed in 1990.
- ~~(75) One (1) reactor, maximum capacity of 4,000 gallons, identified as TR-2630, constructed in 1990 with overheads system.~~
- ~~(76) One (1) reactor, maximum capacity of 3,500 gallons, identified as TR-2541, constructed in 2005 with overheads system.~~
- ~~(77) One (1) decanter feed tank, maximum capacity of 1,630 gallons, identified as TP-2780, constructed in 1995.~~

SECTION D.8

5.7 MMBtu/hr Boiler

- ~~(y#)~~ One (1) natural gas fired boiler, ~~Model~~, identified as boiler no. B-3, constructed in 1974, rated at 5.7 MMBtu per hour, exhausting at one (1) stack, identified as GB-34043.

Modification No. 2:

Condition D.1.1 has been modified to reflect the rule references to 326 IAC 6.8-2. The modified condition title follows:

D.1.1 ~~Particulate Matter Limitation (PM₁₀)~~ **Lake County PM₁₀ Emission Requirements**
[326 IAC 6.8-2][326 IAC 6-2-4]

...

Modification No. 3:

The facility description box in Section D.2 has been updated to reflect the revised emission units. The revised section follows:

SECTION D.2

FACILITY OPERATION CONDITIONS

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

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

Chlorination process with a maximum rated capacity of 35,000 pounds per hour of **chlorine feed to produce short to long chain chlorination paraffins, olefins, waxes, polybutene, and 4,821 pounds per hour of muriatic acid. The chlorination system consists of the following systems:** ~~chlorinated metal working products, 10,000 pounds per hour of chlorinated polybutene intermediate products, and 12,000 pounds per hour of muriatic acid consisting of the following equipment:~~

(b) The system consisting of:

- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), **TR-2003** (constructed before 1976), **TR-2004** (constructed before 1976), **TR-2005** (constructed before 1976), **TR-2006** (constructed before 1976), **TR-2007** (constructed in 1977), **TR-2008** (constructed in 1977), **TR-2010** (constructed in 1983), and **TR-2014** (constructed in 1990), ~~and~~ with a maximum capacity of 2,000 gallons each;
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), **TR-2009** (constructed in 1982), **TR-2015** (constructed in 1990), **TR-2016** (constructed in 1990), and **TR-2017** (constructed in 1993), ~~and~~ with a maximum capacity of 4,000 gallons each;
- (3) One (1) sulfur monochloride tank, identified as TS-1058, constructed in 1981, ~~and~~ with a maximum capacity of 5,470 gallons;
- (4) One (1) acid tower condensate neutralization tank, identified as TP-2030, constructed before 1976, ~~and~~ with a maximum capacity of 500 gallons;
- (5) Two (2) chlorine railcar track spots, identified as RC-0101 and RC-0201, constructed before 1976, ~~and~~ with a maximum capacity of 1 railcar (containing at most 180,600 pounds) each;
- (6) One (1) acid tower, identified as CB-2060, constructed **before 1976** ~~in 2005~~, ~~and~~ with a maximum capacity of **4,800** ~~12,000~~ lb/hr muriatic acid;
- (7) One (1) tower product acid tank, identified as TP-2033, constructed before 1976, ~~and~~ with a maximum capacity of 560-gallons;
- (8) One (1) tower water feed tank, identified as TP-2060 (constructed in 1996), ~~and~~ with a maximum capacity of 560-gallons; and
- (9) ~~Two~~ **One (1)** chlorine vaporizers, identified as XV-2050 **and XV-2051**, constructed **before 1976** ~~in 2005~~, and with a maximum **feed** capacity of **8,000** ~~3,000~~ lb/hr chlorine **combined**;

all controlled by seven (7) scrubbers, identified as TP-2061 (constructed before 1976), TP-2062 (constructed before 1976), TP-2063 (constructed before 1976), TP-2064 (constructed before 1976), TP-2065 (constructed in 1977), TP-2066 (constructed in 1977), and TP-2067 (constructed in 1995), and exhausting at seven (7) stacks, identified as Stacks TP-2061 to 2067.

(c) The system consisting of:

- (1) Three (3) muriatic acid tanks, identified as TS-1090 (constructed in 1979), TS-1091 (constructed in 1980), and TS-1093 (constructed in 2000), ~~and~~ with a maximum capacity of ~~44,900~~, 16,000, **14,900** and 16,000 gallons, respectively;

- (2) Two (2) hypochlorite reduction tanks, identified as TP-3494, and TP-3495 (constructed in 1993), and with a maximum capacity of 6,250 gallons each;
- ~~(3) Two (2) chlorinated polybutene storage tanks, identified as TS-1019, and TS-1023 (constructed in 1997), and with a maximum capacity of 27,950 gallons each; and~~
- ~~(3)~~⁽⁴⁾ One (1) muriatic acid tank truck loading station, constructed in 1979, and with a maximum capacity of 1 truck;

controlled by one (1) caustic scrubber identified as TP-109930 constructed in 1980 exhausting at one (1) stack, identified as Stack TP-109930.

(d) The system consisting of:

- (1) One (1) chlorinated product tank, identified as TS-2041, constructed before 1976, with a maximum capacity of 4,000 gallons;
- (2) Two (2) chlorinated product tanks, identified as TS-2043, and TS-2044, constructed before 1976, and with a maximum capacity of 4,100 gallons each; and
- (3) One (1) chlorinated product-drumming tank, identified as TS-2012, constructed in 1978, and with a maximum capacity of 1,500 gallons.

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

Modification No. 4:

Condition D.2.1 has been update to replace rule references to 326 IAC 6.5, Particulate Matter Limitations Except Lake County with rule references to 326 IAC 6.8, Particulate Matter Limitations for Lake County. The modified condition follows:

D.2.1 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2][326 IAC 6.58-1-5]

Pursuant to 326 IAC 6.8-2-19, the allowable PM₁₀ emission rate from the Chlorination process shall not exceed 0.001 pounds per ton, and 0.003 pounds per hour. Pursuant to 326 IAC 6.58-1-5(d), the Chlorination process shall comply with both limits.

Modification No. 5:

All of the permit conditions directly related to the NESHAP minor limit for the production of chlorinated products enforceable have been removed. Stack testing performed by the Permittee and verified by the Indiana Department of Environmental Management proved the HAP emissions from this process, along with HAP emissions from the temporary operations in Condition E.1.1 and insignificant emissions from the storage tanks, are below 10 tons per year of a single HAP and less than 25 tons per year of a combination of HAPs; therefore, the NESHAP minor limit and the related record keeping and reporting requirements are no longer required. In addition, the testing required by Condition D.2.6 has been performed and since the emission levels are less than one ton per year, follow up testing is not required as long as the product formula, method of operation, and process equipment do not change. The modified D.2 Conditions are as follows:

D.2.3 NESHAP Minor Limit [40 CFR Part 63, Subpart A][40 CFR Part 63, Subpart NNNNN][326 IAC 20-1]

- ~~(a) The chlorinated hydrocarbons production at the chlorination process shall be limited to less than 12,000 tons per 12 consecutive month period with compliance determined at the end of each month.~~

~~(b) The HCl and Cl₂ emissions shall be limited to 1.45 and 1.07 pounds per ton of chlorinated hydrocarbon produced, respectively.~~

~~Compliance with these limits will limit the source-wide potential to emit of single HAP and combined HAP emissions to less than 10 and 25 tons per 12 consecutive month period, respectively, and make the requirements of 40 CFR Part 63, Subpart NNNNN and Subpart A not applicable.~~

Compliance Determination Requirements

D.2.34 ~~Scrubber Control~~ Operation Requirements

The scrubber control system shall be in operation at all times when the chlorination system is in operation.

D.2.45 Hydrochloric Acid (HCl) and Chlorine (Cl₂)

Caustic Scrubber: The caustic strength operations limit shall be no less than 4%. If a representative sample taken during any 8-hour shift shows a caustic percent reading of 4% or less, then the Permittee shall take one of the following steps:

- (1) Fresh caustic will be added to the scrubber; or
- (2) The caustic solution will be changed within 8 hours of test reading; or
- (3) The process will be vented to the backup scrubbers; or
- (4) The process shall be shutdown and the caustic solution changed before the process is started up.

~~D.2.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]~~

~~Within ninety (90) days after issuance of this permit, to demonstrate compliance with Condition D.2.3, the Permittee shall perform testing for the chlorination process utilizing methods as approved by the Commissioner. 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.2.57 Parametric Monitoring

The Permittee shall test the concentration (% by weight) of caustic in the chlorination scrubbers once per 8-hour shift.

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

D.2.68 Record Keeping Requirements

- ~~(a) To document compliance with Condition D.2.3, the Permittee shall maintain records of the chlorinated hydrocarbons produced at the chlorinated process.~~
- (ab) To document compliance with Condition D.2.5, the Permittee shall maintain records once per shift of the caustic concentration in the chlorination scrubbers.
- (be) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.9 Reporting Requirements

~~A quarterly summary of the information to document compliance with Condition D.2.3 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).~~

Modification No. 6:

The facility description box in Section D.3 has been updated to reflect the revised emission units. The revised section follows:

SECTION D.3 FACILITY OPERATION CONDITIONS

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

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

Sulfurization Process- with a maximum rated capacity of 6,000 pounds per hour of sulfurized products consisting of the following equipment:

- (e) The system consisting of:
- (1) Three (3) sulfurization reactors, identified as TR-2120, **TR-2121**, and **TR-2123**, constructed before 1976, with maximum capacity of 3,700, 3,700, and 7,500 gallons, respectively, controlled by two (2) caustic scrubbers **operating in series**, identified as TP-2162 and TP-2163, **followed by an activated carbon system for odor management** and exhausting at Stack TP-2163. **One (1) reflux condenser associated with sulfurization reactor TR-2120.**
 - (2) Five (5) blowing tanks, identified as **TP-2150** (constructed in 1977), **TP-2151** (constructed in 1977), **TP-2152** (constructed in 1977), **TP-2153** (constructed in 1977),[;] and **TP-2154** (constructed in 1997), with maximum capacity of 11,000, 9,650, 11,500, 4,000, and 7,600 gallons, respectively, venting to a blowing tank knockout tank identified as TP-2159[;], controlled by two (2) caustic scrubbers, identified as TP-2162 and TP-2163 and exhausting at Stack TP-2163.
 - (3) One (1) knockout storage tank, identified as ~~TSP~~-2164, constructed in 1976, with a maximum capacity of 1,500 gallons, exhausted to a **containment scrubber** ~~caustic sloop tank~~, identified as TP-2167, constructed in 1995, and exhausting at Stack TP-2167.
 - (4) One (1) scrubber liquor storage tank, identified as TS-1029, constructed in 1979, ~~and~~ with a maximum capacity of 15,880 gallons.
 - (5) ~~One (1) reflux condenser associated with sulfurization reactor TR-2120.~~ **Two (2) molten sulfur storage tanks, identified as TS-2190 and TP-2190, constructed in 1976.**
 - (6) **One (1) filter feed tank, maximum capacity of 3,000 gallons, identified as TP-2207, constructed prior to 1976.**

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

Modification No. 7:

Condition D.3.1 has been update to replace rule references to 326 IAC 6.5, Particulate Matter Limitations Except Lake County with rule references to 326 IAC 6.8, Particulate Matter Limitations for Lake County. The modified condition follows:

D.3.1 Lake County PM₁₀ Emission Requirements [326 IAC 6.8-2][326 IAC 6.58-1-5]

Pursuant to 326 IAC 6.8-2-19, the allowable PM₁₀ emission rate from the Sulfurization process shall not exceed 0.157 pounds per ton, and 0.23 pounds per hour. Pursuant to 326 IAC 6.58-1-5(d), the Sulfurization process shall comply with both limits.

Modification No. 8:

Tank TS-1029 has been removed from Section D.7 and included in Section D.3 to eliminate duplication of emission units. All existing permit conditions for tank TS-1029 in Section D.7 have been included in Section D.3.3 and Section D.3.7. The existing permit Condition D.3.8 has been renumbered to Condition D.3.9. Condition D.3.9(b) has been moved to Condition D.3.8(b). The remaining conditions have been renumbered. The new and revised permit conditions follow:

D.3.3 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9, the Permittee shall maintain a record and submit to Compliance Branch, OAQ, IDEM a report containing the following information for VOC storage tank TS-1029:

- (a) The vessel identification number**
- (b) The vessels dimension**
- (c) The vessel capacity**

D.3.78 Record Keeping Requirements

- (a) The Permittee shall maintain the following records in accordance with Section C - General Record Keeping Requirements, of this permit:**
 - (1) The amount of sulfur used and sulfurization products manufactured for each month.
 - (2) The hourly average operating temperature of the second stage of the scrubber.
 - (3) Records of the per shift caustic concentration and per hour liquid flow rate in second stage of the scrubber.
 - (4) Per shift records of the caustic concentration in the first stage of the scrubber.
 - (5) Daily volume and caustic concentration charged to the scrubbers during recharge.
- (b) Pursuant to 326 IAC 8-9-6, the Permittee shall keep readily accessible records of each storage tank listed in Condition D.3.3 for the life of the storage tank.**
- (bc) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.**

D.3.9 Reporting Requirements

- (a) The Permittee shall submit a quarterly report of data required by condition D.3.2 (a) and (b) within 30 days following the reporting period using the reporting forms located at the end of this permit, or their equivalent;**

~~(b) Pursuant to 326 IAC 8-9-6, the Permittee shall keep readily accessible records of each storage tank listed in Condition D.3.3 for the life of the tank.~~

(eb) The Permittee shall submit periodic reports to the addresses listed in Section C – General Reporting Requirements, of this permit. The report submitted by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

Modification No. 9:

The facility description box in Section D.4 has been updated to reflect the revised equipment descriptions and numbering system. The revised facility description section follows:

SECTION D.4 FACILITY OPERATION CONDITIONS

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

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

Hi-Temp Process - with a maximum rated capacity of 4,200 pounds per hour of hi-temp products consisting of the following equipment:

(f) The system consisting of:

- (1) One (1) reactor, identified as TR-2620, constructed in 1989, ~~and~~ with a maximum capacity of 4,000 gallons;
- (2) Two (2) recovered methanol tanks, identified as TS-2602 and TS-2603, constructed in 1989, ~~and~~ with maximum capacity of 2,500, and 4,000 gallons, respectively;
- (3) One (1) sludge tank, identified as TP-2604, constructed in 1989, ~~and~~ with a maximum capacity of 750 gallons; **equipped with a sludge drumming operation followed by an activated carbon filter for odor management;**
- (4) One (1) scrubber liquor tank, identified as TS-2610, constructed in 2001, ~~and~~ with a maximum capacity of 10,000 gallons; and
- (5) One (1) intermediate holding tank, identified as TP-2601, constructed in 1989, ~~and~~ with a maximum capacity of 4,550 gallons;

~~all~~ controlled by two (2) caustic scrubbers identified as TP-2624 and TP-2626, ~~constructed in 1989; and one flare, identified as GBG -2627, constructed in 1990, in series, and exhausting at one (1) stack, identified as Stack GBG-2627.~~
Alternately, the reactors identified in item (f.1) can be controlled by one (1) scrubber identified as TP-2636, constructed in 1990; and exhausting at one (1) stack identified as Stack TP-2636.

(g) One (1) scrubber liquor truck loading station, constructed in 1989, controlled by a carbon drum, identified as TF-2610 constructed in 2001.

~~(h) A filtration system consisting of~~

~~(h) (1) One (1) pre-coat tank, identified as TP-2722, constructed in 1995, and with a maximum capacity of 1,300 gallons;.~~

~~(i) (2)~~ One (1) filter feed tank, identified as TP-2720, constructed in 1995, ~~and~~ with a maximum capacity of 5,000 gallons, **controlled by a carbon drum, identified as TF-2728 and exhausting at a stack identified as Stack TP-2728.**

~~(j) (3)~~ One (1) filtrate tank, identified as TP-2730, constructed in 1995, ~~and~~ with a maximum capacity of 5,000 gallons; ~~and~~.

~~(k) (4)~~ One (1) filter, identified as GF-272444, constructed in 1995, ~~and~~ with a maximum capacity of 69 cubic feet of filter cake, **and one (1) filter, identified as GF-2734, constructed in 2005, with a maximum capacity of 41 cubic feet of filter cake, both controlled by a carbon drum, identified as TF-2728, exhausting at stack TF-2728.**

~~controlled by a carbon drum, identified as GF-2728, and exhausting at a stack, identified as Stack GF-2728.~~

(l) One (1) reactor, constructed in 1993, identified as TP-2553, with a maximum capacity of 2,100 gallons, controlled by scrubber TP-2589.

(m) One (1) filter feed tank, constructed in 1993, identified as TP-2554, with a maximum capacity of 2,100 gallons.

(n) Three (3) wash water tanks, constructed in 1996, identified as TP-2556, TP-2557 and TP-2558, each with a maximum capacity of 700 gallons.

(o) One (1) reactor, constructed in 1990, identified as TR-2630, with a maximum capacity of 4,000 gallons.

(p) One (1) reactor, constructed in 2005, identified as TR-2541, with a maximum capacity of 3,500 gallons, controlled by scrubber TP-2589.

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

Modification No. 10:

The facility description box in Section D.5 has been updated to reflect the revised equipment descriptions and numbering system. Also, the description of tanks TP-1030, TP-1031 and TP-1032 were corrected to match the description in Section A.2. The revised facility description box follows:

SECTION D.5

FACILITY OPERATION CONDITIONS

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

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

Fuel Additive Process - with a maximum rated capacity of 12,000 pounds per hour of fuel additives (prior to blending) consisting of the following equipment:

(iq) The system consisting of:

- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), **TR-2003** (constructed before 1976), **TR-2004** (constructed before 1976), **TR-2005** (constructed before 1976), **TR-2006** (constructed before 1976), **TR-2007** (constructed in 1977), **TR-2008** (constructed in 1977), **TR-2010** (constructed in 1983), and **TR-2014** (constructed in 1990), and with a maximum capacity of 2,000 gallons each;
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), **TR-2009** (constructed in 1982), **TR-2015** (constructed in 1990), **TR-2016** (constructed in 1990), and **TR-2017** (constructed in 1993), and with a maximum capacity of 4,000 gallons each;
- (3) One (1) EDA recycle tank, identified as ~~TSP-2052~~ (constructed in 1985), and with a maximum capacity of 1,700 gallons;

controlled by a scrubber identified as TP-2072 (constructed in 1985), and exhausting at a stack identified as Stack TP-2072.

~~(jr)~~ One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as ~~TGF-10279~~, and exhausting at stack identified as Stack ~~TGF-10297~~.

~~(ks)~~ Two (2) continuous wash systems and two (2) stripping columns identified as ~~CD-2319~~ (constructed in 1985) and ~~CD-2350~~ (constructed in 1990), controlled by two (2) vent condensers identified as ~~XT-2313~~, and ~~XT-2350~~, and exhausting at stacks identified as ~~Stack XT-2313~~, and ~~Stack XT-2350~~.

One (1) continuous wash system consisting of tanks TP-2339, TP-2328, TP-2334, TP-2333, TP-2331, TP-2330, TP-2330, TP-2340, TP-2349, TP-2348, one (1) 300 gallon feed tank identified as TP-2329, one (1) butanol recovery column identified as CS-2329, and one stripping column identified as CD-2319, controlled by one (1) vent condenser identified as XT-2313 and exhausting to stack XT-2313.

One (1) continuous wash system consisting of tanks TP-2350, TP-2359, TP-2353, TP-2354, TP-2351, TP-2352, TP-2355, TP-2356, TP-2357, one (1) butanol water feed tank identified as TP-2358, one (1) butanol recovery column identified as CS-2368, and one stripping column identified as CD-2350, controlled by one (1) vent condenser identified as XT-2350 and exhausting to stack XT-2350.

~~(l)~~ Two (2) solvent storage tanks, identified as ~~TS-1026~~ (constructed in 1985), and ~~TS-2618~~ (constructed in 1990), and maximum capacity of 28,760, and 10,570 gallons, respectively.

~~(tm)~~ Four (4) product rundown tanks, and identified as ~~TPS-1035~~, ~~TPS-1036~~ (both constructed in 1985), TP-2360, and TP-2361 (both constructed in 1990), and maximum capacity of 6,800 gallons each.

~~(ua)~~ Three (3) fuel additive blending tanks, identified as ~~TPS-1030~~, ~~TPS-1031~~, and ~~TPS-1032~~ (all constructed in 1985), and with maximum capacities of 11,740, 15,220, and 11,740 gallons, respectively.

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

Modification No. 11:

Tanks TP-1030, TP-1031 and TP-1032 have been removed from Section D.7 and included in Section D.5 to eliminate duplication of emission units. The applicable requirements for these tanks in Section D.7 have been included in Section D.5.1 and Section D.5.2. The new permit conditions follow:

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

D.5.1 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9, the Permittee shall maintain a record and submit to Compliance Branch, OAQ, IDEM a report containing the following information:

- (a) The vessel identification number
- (b) The vessels dimension
- (c) The vessel capacity

for each of the following vessels:

- (1) TP-1030
- (2) TP-1031
- (3) TP-1032

D.5.2 Record Keeping Requirements

Pursuant to 326 IAC 8-9-6, the Permittee shall keep readily accessible records of each storage tank listed in Condition D.5.1 for the life of the storage tank.

Modification No. 12:

The facility description box in Section D.6 has been updated to reflect the revised descriptive information proposed by this project. The revised section follows:

SECTION D.6 FACILITY OPERATION CONDITIONS

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

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

Miscellaneous Process - with a maximum rated capacity of 3,000 pounds per hour consisting of the following equipment:

~~The system consisting of~~

- (ve) Five reactors, identified as TR-2224 (constructed in 1980), **TR-2225** (constructed before 1976), **TR-2226** (constructed before 1976), **TR-2227** (constructed before 1976), and **TR-2228** (constructed before 1976), maximum capacity of 5,500, 2,000, 7,000, 400, and 7,500 gallons, respectively; controlled by two (2) wet scrubbers, identified as PE-2228, and TP-2332, and exhausting at stacks identified as Stack PE-2228, and Stack TP-2332.

- (wp) Two (2) reactors, identified as TR-2329 (constructed in 1986), and TR-2322 (constructed in 1984), maximum capacity of 1,500, and 2,000 gallons, respectively, ~~controlled by a demister (constructed in 1989), identified as TP-2322 and exhausting at stack, identified as Stack TP-2322.~~

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

Modification No. 13:

The facility description box in Section D.7 has been updated to reflect the revised emission unit descriptive information as a result of this modification. The revised facility description box follows:

SECTION D.7

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Specifically Regulated Insignificant Activities

Specifically regulated insignificant activities with emissions below significant thresholds:

- (xq) Storage tanks emitting less than one (1) ton per year collectively of a combination of HAPs and less than fifteen (15) pounds per day of VOC. [326 IAC 12, and 40 CFR 60.112b(a)]
- (1) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1001, constructed in 1997.
 - (2) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1002, constructed in 1997.
 - (3) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1003, constructed in 1993.
 - (4) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1004, constructed in 1978.
 - (5) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1005, constructed in 1978.
 - (6) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1006, constructed in 1978.
 - (7) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1007, constructed in 1978.
 - (8) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1008, constructed in 1978.
 - (9) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1009, constructed in 1978.
 - (10) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1010, constructed in 1978.

- (11) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1011, constructed in 1978.
- (12) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1012, constructed in 1978.
- (13) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1013, constructed in 1978.
- (14) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1014, constructed in 1978.
- (15) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1015, constructed in 1987.
- (16) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1016, constructed in 1978.
- (17) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1017, constructed in 1978.
- (18) One (1) storage tank, maximum capacity of 21,050 gallons, identified as TS-1018, constructed in 1978.
- (19) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1019, constructed in 1996, **exhausting to a scrubber identified as TP-1099.**
- (20) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1020, constructed in 1997.
- (21) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1021, constructed in 1997.
- (22) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1022, constructed in 1996.
- (23) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1023, constructed in 1996.
- (24) One (1) storage tank, maximum capacity of 27,950 gallons, identified as TS-1024, constructed in 1997.
- (25) One (1) storage tank, maximum capacity of 28,760 gallons, identified as TS-1026, constructed in 1980.
- ~~(26) One (1) storage tank, maximum capacity of 14,930 gallons, identified as TS-1027, constructed in 1989.~~
- (276) One (1) storage tank, maximum capacity of 11,075 gallons, identified as TS-1028, constructed in 1980.
- ~~(28) One (1) storage tank, maximum capacity of 15,880 gallons, identified as TS-1029, constructed in 1980.~~

- ~~(29)~~ One (1) blend tank, maximum capacity of 11,740 gallons, identified as ~~TPS-1030~~, constructed in 1986.
- ~~(30)~~ One (1) blend tank, maximum capacity of 15,220 gallons, identified as ~~TPS-1031~~, constructed in 1986.
- ~~(31)~~ One (1) blend tank, maximum capacity of 11,740 gallons, identified as ~~TPS-1032~~, constructed in 1986.
- ~~(3227)~~ One (1) ~~POBA~~ storage tank, maximum capacity of 15,220 gallons, identified as TS-1033, constructed in 1986.
- ~~(3328)~~ One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1039, constructed in 1987.
- ~~(3429)~~ One (1) storage tank, maximum capacity of 15,380 gallons, identified as TS-1040, constructed in 1987.
- ~~(3530)~~ One (1) ~~storage~~ blend tank, maximum capacity of 15,540 gallons, identified as TS-1042, constructed in 1989.
- ~~(3631)~~ One (1) storage or blend tank, maximum capacity of 14,900 gallons, identified as TS-1043, constructed in 1990.
- ~~(372)~~ One (1) wax storage tank, maximum capacity of 20,390 gallons, identified as TS-1056, constructed in 1978.
- ~~(383)~~ One (1) storage tank, maximum capacity of 20,390 gallons, identified as TS-1057, constructed in 1978.
- ~~(394)~~ One (1) storage tank, maximum capacity of 4,010 gallons, identified as TS-1081, constructed in 1989.
- ~~(4035)~~ One (1) storage tank, maximum capacity of 15,220 gallons, identified as TS-1082, constructed in 1989.
- ~~(41)~~ One (1) storage tank, maximum capacity of 1,320 gallons, identified as ~~TS-1083~~, constructed in 1976.
- ~~(4236)~~ One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2160, constructed before 1976.
- ~~(4337)~~ One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2163, constructed before 1976.
- ~~(4438)~~ One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2168, constructed before 1976.
- ~~(4539)~~ One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2169, constructed before 1976.
- ~~(460)~~ One (1) storage tank, maximum capacity of 15,270 gallons, identified as TS-2170, constructed before 1976.

- (417) One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2178, constructed in 1998.
- (482) One (1) storage tank, maximum capacity of 2,600 gallons, identified as TS-2209, constructed before 1979.
- (493) One (1) storage tank, maximum capacity of 10,800 gallons, identified as TS-2218, constructed before 1979.
- ~~(4450) One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2251, constructed before 1976.~~ **One (1) storage tank, maximum capacity of 10,690 gallons, identified as TS-2252, constructed prior to 1976.**
- ~~(5145)~~ One (1) storage tank, maximum capacity of 6,760 gallons, identified as TS-2253, constructed before 1976.
- ~~(5246)~~ One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2255, constructed before 1976.
- ~~(5347)~~ One (1) storage tank, maximum capacity of 10,360 gallons, identified as TS-2264, constructed before 1979.
- ~~(5448)~~ One (1) storage tank, maximum capacity of 31,070 gallons, identified as TS-2265, constructed before 1979.
- (49) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2271, constructed in 2005.**
- (50) One (1) storage tank, maximum capacity of 3,920 gallons, identified as TS-2272, constructed in 2005.**
- ~~(515)~~ One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2275, constructed before 1979.
- ~~(526)~~ One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2276, constructed before 1979.
- ~~(537)~~ One (1) storage tank, maximum capacity of 23,310 gallons, identified as TS-2277, constructed before 1976.
- ~~(5458)~~ One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2279, constructed before 1976.
- ~~(595)~~ One (1) storage tank, maximum capacity of 3,450 gallons, identified as TS-2280, constructed before 1976.
- ~~(6056)~~ One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-26305, constructed in 1990.
- ~~(6157)~~ One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2315, constructed in 1990.
- ~~(62)~~ One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.

- (5863) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2362, constructed in 1990.
- (5964) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2364, constructed in 1990.
- (605) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2365, constructed in 1990.
- (616) One (1) storage tank, maximum capacity of 30,400 gallons, identified as TS-2367, constructed in 1990.
- (627) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2606, constructed in 1989.
- ~~(68) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2610, constructed in 1990.~~
- (63) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2611, constructed in 1990.**
- (649) One (1) storage tank, maximum capacity of 4,760 gallons, identified as TS-2612, constructed in 1990.
- ~~(6570) One (1) storage tank, maximum capacity of 30,080 gallons, identified as TS-2613, constructed in 1990.~~
- (66) One (1) storage tank, maximum capacity of 10,570 gallons, identified as TS-2618, constructed in 1990.**
- (7167) One (1) storage tank, maximum capacity of 16,920 gallons, identified as TS-2619, constructed in 1990.
- ~~(6872) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2550, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.~~
- ~~(6973) One (1) storage tank, maximum capacity of 2,750 gallons, identified as TP-2551, constructed in 1996, and modified in 2007 to vent to scrubber TP-2636 which exhausts to stack TP-2636.~~
- (704) One (1) storage tank, maximum capacity of 2,970 gallons, identified as TP-2617, constructed in 1990.
- ~~(75) One (1) reactor, maximum capacity of 4,000 gallons, identified as TR-2630, constructed in 1990 with overheads system.~~
- ~~(76) One (1) reactor, maximum capacity of 3,500 gallons, identified as TR-2541, constructed in 2005 with overheads system.~~
- ~~(77) One (1) decanter feed tank, maximum capacity of 1,630 gallons, identified as TP-2780, constructed in 1995.~~

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

Modification No. 14:

Condition D.7.1 has been updated to reflect the revised numbering system, NSPS and 326 IAC 8-9 applicability :

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

D.7.1 Volatile Organic Liquid Storage Vessels [326 IAC 12] [40 CFR 60, Part Kb]

Pursuant to 40 CFR 60.116b, the Permittee shall keep readily accessible records showing the dimensions of the storage tanks and an analysis showing the capacities of the following storage tanks.

- (1) TS-1001
- (2) TS-1002
- (3) TS-1003
- (4) TS-1015**
- ~~(54)~~ TS-1019
- ~~(65)~~ TS-1020
- ~~(76)~~ TS-1021
- ~~(87)~~ TS-1022
- ~~(98)~~ TS-1023
- ~~(109)~~ TS-1024
- ~~(10)~~ TS-1027
- ~~(11)~~ TS-1030
- ~~(12)~~ TS-1031
- ~~(13)~~ TS-1033
- ~~(14)~~ TS-1039
- ~~(15)~~ TS-1040
- ~~(16)~~ TS-1042
- ~~(17)~~ TS-1043
- ~~(18)~~ TS-1082
- (119) TS-2178
- ~~(20)~~ TS-2305
- (124) TS-2315
- ~~(22)~~ TS-2618
- ~~(213)~~ TS-2362
- ~~(214)~~ TS-2364
- ~~(215)~~ TS-2365
- ~~(216)~~ TS-2367
- ~~(217)~~ TS-2606
- ~~(28)~~ TS-2610
- ~~(2918)~~ TS-2613
- ~~(30)~~ TS-2619

Modification No. 15:

Condition D.7.2 has been updated to reflect the revised numbering system and updated applicability :

D.7.2 Volatile Organic Liquid Storage Vessels [326 IAC 8-9]

Pursuant to 326 IAC 8-9, the Permittee shall maintain a record and submit to Compliance Branch, OAQ, IDEM a report containing the following information:

- (a) The vessel identification number

(b) The vessels dimension

(c) The vessel capacity

for each of the following vessels.

- (1) TS-1004
- (2) TS-1005
- (3) TS-1006
- (4) TS-1007
- (5) TS-1008
- (6) TS-1009
- (7) TS-1010
- (8) TS-1011
- (9) TS-1012
- (10) TS-1013
- (11) TS-1014
- ~~(12) TS-1015~~
- ~~(123)~~ TS-1016
- ~~(134)~~ TS-1017
- ~~(145)~~ TS-1018
- ~~(156)~~ TS-1026
- ~~(167)~~ TS-1028
- ~~(18)~~ TS-1029
- ~~(19)~~ TS-1032
- (17) TP-1033**
- ~~(1820)~~ TS-1039
- (19) TS-1040**
- (20) TS-1042**
- (21) TS-1043**
- ~~(224)~~ TS-1056
- ~~(232)~~ TS-1057
- (24) TS-1081**
- (25) TS-1082**
- ~~(23)~~ TS-1083
- ~~(24)~~ TS-2042
- ~~(265)~~ TS-2160
- ~~(276)~~ TS-2163
- ~~(287)~~ TS-2168
- ~~(2928)~~ TS-2169
- ~~(3029)~~ TS-2170
- ~~(310)~~ TS-2209
- ~~(324)~~ TS-2218
- ~~(32)~~ TS-2251
- (33) TS-2252**
- ~~(343)~~ TS-2253
- ~~(354)~~ TS-2255
- ~~(365)~~ TS-2264
- ~~(376)~~ TS-2265
- (38) TS-2271**
- (39) TS-2272**
- ~~(4037)~~ TS-2275
- ~~(4138)~~ TS-2276
- ~~(4239)~~ TS-2277
- ~~(430)~~ TS-2279

(441) TS-2280
(45) TS-2605
(46) TS-2611
(472) TS-2612
(48) TS-2618
(49) TS-2619
(5043) TP-2550
(5144) TP-2551
(5245) TP-2617
(46) TR-2630
(47) TR-2544
(48) TP-2780

Modification No. 16:

The stack identification number for the natural gas fired boiler has been updated. The revised facility description and revised Condition D.8.1 follow:

SECTION D.8 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: Specifically Regulated Insignificant Activities

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

- (x) One (1) natural gas fired boiler, Model, identified as boiler no. B-3, constructed in 1974, rated at 5.7 MMBtu/hr, exhausting at one (1) stack, identified as GB-34043.

(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.8.1 Particulate Matter Limitation (PM₁₀) [326 IAC 6.8-2] [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6.8-2-19 (Lake County PM₁₀ emission requirements) PM₁₀ emissions from the Cleaver-Brooks boiler B-3 (Stack GB-34043) shall be limited to seven-thousandths (0.007) pounds per million Btu, and 0.07 pounds per hour.

Modification No. 17:

The facility description box in Section E.1 has been updated to reflect the revised equipment descriptions and number system. The revised description box follows:

SECTION E.1 FACILITY OPERATION CONDITIONS

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

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

Chlorination process with a maximum rated capacity of 35,000 pounds per hour of **chlorine feed to produce short to long chain chlorination paraffins, olefins, waxes, polybutene, and 4,821 pounds per hour of muriatic acid. The chlorination system consists of the following systems:** chlorinated metal working products, 10,000 pounds per hour of chlorinated polybutene intermediate products, and 12,000 pounds per hour of muriatic acid consisting of the following equipment:

(b) The system consisting of:

- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), **TR-2003** (constructed before 1976), **TR-2004** (constructed before 1976), **TR-2005** (constructed before 1976), **TR-2006** (constructed before 1976), **TR-2007** (constructed in 1977), **TR-2008** (constructed in 1977), **TR-2010** (constructed in 1983), and **TR-2014** (constructed in 1990), ~~and~~ with a maximum capacity of 2,000 gallons each;
- (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), **TR-2009** (constructed in 1982), **TR-2015** (constructed in 1990), **TR-2016** (constructed in 1990), and **TR-2017** (constructed in 1993), ~~and~~ with a maximum capacity of 4,000 gallons each;
- (3) One (1) sulfur monochloride tank, identified as TS-1058, constructed in 1981, ~~and~~ with a maximum capacity of 5,470 gallons;
- (4) One (1) acid tower condensate neutralization tank, identified as TP-2030, constructed before 1976, ~~and~~ with a maximum capacity of 500 gallons;
- (5) Two (2) chlorine railcar track spots, identified as RC-0101 and RC-0201, constructed before 1976, ~~and~~ with a maximum capacity of 1 railcar (containing at most 180,600 pounds) each;
- (6) One (1) acid tower, identified as CB-2060, constructed **before 1976** ~~in 2005~~, ~~and~~ with a maximum capacity of **4,800** ~~42,000~~ lb/hr muriatic acid;
- (7) One (1) tower product acid tank, identified as TP-2033, constructed before 1976, ~~and~~ with a maximum capacity of 560-gallons;
- (8) One (1) tower water feed tank, identified as TP-2060 (constructed in 1996), ~~and~~ with a maximum capacity of 560-gallons; and
- (9) ~~Two~~ ~~One~~ ~~(4)~~ chlorine vaporizers, identified as XV-2050 **and XV-2051**, constructed **before 1976** ~~in 2005~~, and with a maximum **feed** capacity of ~~8,000~~ **3,000** lb/hr chlorine **combined**;

all controlled by seven (7) scrubbers, identified as TP-2061 (constructed before 1976), TP-2062 (constructed before 1976), TP-2063 (constructed before 1976), TP-2064 (constructed before 1976), TP-2065 (constructed in 1977), TP-2066 (constructed in 1977), and TP-2067 (constructed in 1995), and exhausting at seven (7) stacks, identified as Stacks TP-2061 to 2067.

(c) The system consisting of:

- (1) Three (3) muriatic acid tanks, identified as TS-1090 (constructed in 1979), TS-1091 (constructed in 1980), and TS-1093 (constructed in 2000), ~~and~~ with a maximum capacity of ~~14,900~~, 16,000, **14,900** and 16,000 gallons, respectively;
- (2) Two (2) hypochlorite reduction tanks, identified as TP-3494, and TP-3495 (constructed in 1993), ~~and~~ with a maximum capacity of 6,250 gallons each;
- (3) ~~Two~~ ~~(2)~~ chlorinated polybutene storage tanks, identified as TS-1019, and TS-1023 (constructed in 1997), ~~and~~ with a maximum capacity of 27,950 gallons each; ~~and~~

~~(3)(4)~~ One (1) muriatic acid tank truck loading station, constructed in 1979, ~~and~~ with a maximum capacity of 1 truck;

controlled by one (1) caustic scrubber identified as TP-109930 constructed in 1980 exhausting at one (1) stack, identified as Stack TP-109930.

(d) The system consisting of:

- (1) One (1) chlorinated product tank, identified as TS-2041, constructed before 1976, with a maximum capacity of 4,000 gallons;
- (2) Two (2) chlorinated product tanks, identified as TS-2043, and TS-2044, constructed before 1976, ~~and~~ with a maximum capacity of 4,100 gallons each; and
- (3) One (1) chlorinated product-drumming tank, identified as TS-2012, constructed in 1978, ~~and~~ with a maximum capacity of 1,500 gallons.

Hi-Temp process - with a maximum rated capacity of 4,200 pounds per hour of hi-temp products consisting of the following equipment:

(f) The system consisting of:

- (1) One (1) reactor, identified as TR-2620, constructed in 1989, ~~and~~ with a maximum capacity of 4,000 gallons;
- (2) Two (2) recovered methanol tanks, identified as TS-2602 and TS-2603, constructed in 1989, ~~and~~ with maximum capacity of 2,500, and 4,000 gallons, respectively;
- (3) One (1) sludge tank, identified as TP-2604, constructed in 1989, ~~and~~ with a maximum capacity of 750 gallons; **equipped with a sludge drumming operation followed by an activated carbon filter for odor management;**
- (4) One (1) scrubber liquor tank, identified as TS-2610, constructed in 2001, ~~and~~ with a maximum capacity of 10,000 gallons; and
- (5) One (1) intermediate holding tank, identified as TP-2601, constructed in 1989, ~~and~~ with a maximum capacity of 4,550 gallons;

— ~~all~~ controlled by two (2) caustic scrubbers identified as TP-2624 and TP-2626, constructed in 1989; and one flare, identified as ~~GBG~~ -2627, constructed in 1990, in series, and exhausting at one (1) stack, identified as Stack ~~GBG~~-2627.
~~Alternately, the reactors identified in item (f.1) can be controlled by one (1) scrubber identified as TP-2636, constructed in 1990; and exhausting at one (1) stack identified as Stack TP-2636.~~

(g) One (1) scrubber liquor truck loading station, constructed in 1989, controlled by a carbon drum, identified as TF-2610 constructed in 2001.

~~(h) A filtration system consisting of~~

~~(h)~~ (1) One (1) pre-coat tank, identified as TP-2722, constructed in 1995, ~~and~~ with a maximum capacity of 1,300 gallons;.

- (i) ~~(2)~~ One (1) filter feed tank, identified as TP-2720, constructed in 1995, ~~and~~ with a maximum capacity of 5,000 gallons, **controlled by a carbon drum, identified as TF-2728 and exhausting at a stack identified as Stack TP-2728.**
- (j) ~~(3)~~ One (1) filtrate tank, identified as TP-2730, constructed in 1995, ~~and~~ with a maximum capacity of 5,000 gallons; ~~and~~.
- (k) ~~(4)~~ One (1) filter, identified as GF-272444, constructed in 1995, ~~and~~ with a maximum capacity of 69 cubic feet of filter cake, **and one (1) filter, identified as GF-2734, constructed in 2005, with a maximum capacity of 41 cubic feet of filter cake, both controlled by a carbon drum, identified as TF-2728, exhausting at stack TF-2728.**

~~controlled by a carbon drum, identified as GF-2728, and exhausting at a stack, identified as Stack GF-2728.~~

- (l) **One (1) reactor, constructed in 1993, identified as TP-2553, with a maximum capacity of 2,100 gallons, controlled by scrubber TP-2589.**
- (m) **One (1) filter feed tank, constructed in 1993, identified as TP-2554, with a maximum capacity of 2,100 gallons.**
- (n) **Three (3) wash water tanks, constructed in 1996, identified as TP-2556, TP-2557 and TP-2558, each with a maximum capacity of 700 gallons.**
- (o) **One (1) reactor, constructed in 1990, identified as TR-2630, with a maximum capacity of 4,000 gallons.**
- (p) **One (1) reactor, constructed in 2005, identified as TR-2541, with a maximum capacity of 3,500 gallons, controlled by scrubber TP-2589.**

Fuel Additive Process - with a maximum rated capacity of 12,000 pounds per hour or fuel additives (prior to blending) consisting of the following equipment:

- (iq) The system consisting of:
- (1) Nine (9) reactors, identified as TR-2001 (constructed before 1976), **TR-2003** (constructed before 1976), **TR-2004** (constructed before 1976), **TR-2005** (constructed before 1976), **TR-2006** (constructed before 1976), **TR-2007** (constructed in 1977), **TR-2008** (constructed in 1977), **TR-2010** (constructed in 1983), and **TR-2014** (constructed in 1990), ~~and~~ with a maximum capacity of 2,000 gallons each;
 - (2) Five (5) reactors, identified as TR-2002 (constructed in 1988), **TR-2009** (constructed in 1982), **TR-2015** (constructed in 1990), **TR-2016** (constructed in 1990), and **TR-2017** (constructed in 1993), ~~and~~ with a maximum capacity of 4,000 gallons each;
 - (3) One (1) EDA recycle tank, identified as ~~TSP~~-2052 (constructed in 1985), ~~and~~ with a maximum capacity of 1,700 gallons;

~~controlled by a scrubber identified as TP-2072 (constructed in 1985), and exhausting at a stack identified as Stack TP-2072.~~

(jr) One (1) virgin EDA tank, identified as TS-1027, (constructed in 1985), maximum capacity of 14,930 gallons, controlled by a carbon adsorption drum identified as TGF-10279, and exhausting at stack identified as Stack TGF-10297.

~~(ks) Two (2) continuous wash systems and two (2) stripping columns identified as CD-2319 (constructed in 1985) and CD-2350 (constructed in 1990), controlled by two (2) vent condensers identified as XT-2313, and XT-2350, and exhausting at stacks identified as Stack XT-2313, and Stack XT-2350.~~

One (1) continuous wash system consisting of tanks TP-2339, TP-2328, TP-2334, TP-2333, TP-2331, TP-2330, TP-2340, TP-2349, TP-2348, one (1) 300 gallon feed tank identified as TP-2329, one (1) butanol recovery column identified as CS-2329, and one stripping column identified as CD-2319, controlled by one (1) vent condenser identified as XT-2313 and exhausting to stack XT-2313.

One (1) continuous wash system consisting of tanks TP-2350, TP-2359, TP-2353, TP-2354, TP-2351, TP-2352, TP-2355, TP-2356, TP-2357, one (1) butanol water feed tank identified as TP-2358, one (1) butanol recovery column identified as CS-2368, and one stripping column identified as CD-2350, controlled by one (1) vent condenser identified as XT-2350 and exhausting to stack XT-2350.

~~(l) Two (2) solvent storage tanks, identified as TS-1026 (constructed in 1985), and TS-2618 (constructed in 1990), and maximum capacity of 28,760, and 10,570 gallons, respectively.~~

~~(tm) Four- (4) product rundown tanks, and identified as TPS-1035, TPS-1036 (both constructed in 1985), TP-2360, and TP-2361 (both constructed in 1990), and maximum capacity of 6,800 gallons each.~~

(ua) Three (3) fuel additive blending tanks, identified as TPS-1030, TPS-1031, and TPS-1032 (all constructed in 1985), and with maximum capacities of 11,740, 15,220, and 11,740 gallons, respectively.

Miscellaneous Process - with a maximum rated capacity of 3,000 pounds per hour consisting of the following equipment:

The system consisting of:

(ve) Five reactors, identified as TR-2224 (constructed in 1980), TR-2225 (constructed before 1976), TR-2226 (constructed before 1976), TR-2227 (constructed before 1976), and TR-2228 (constructed before 1976), maximum capacity of 5,500, 2,000, 7,000, 400, and 7,500 gallons, respectively; controlled by two (2) wet scrubbers, identified as PE-2228, and TP-2332, and exhausting at stacks identified as Stack PE-2228, and Stack TP-2332.

(wp) Two (2) reactors, identified as TR-2329 (constructed in 1986), and TR-2322 (constructed in 1984), maximum capacity of 1,500, and 2,000 gallons, respectively, controlled by a demister (constructed in 1989), identified as TP-2322 and exhausting at stack, identified as Stack TP-2322.

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

Modification No. 18:

Condition E.1.1 has been revised to further explain the reasoning behind the non-applicability of 40 CFR Part 63, Subpart NNNNN. The revised permit condition follows:

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

E.1.1 NESHAP Minor Limit [40 CFR Part 63, Subpart A] [40 CFR Part 63, Subpart NNNNN] [326 IAC 20-1]

- (a) The total HAP emissions from all temporary operation and experimental trials, implemented pursuant to 326 IAC 2-1.1-3(h)(3), shall be limited to six (6) tons per twelve consecutive month period, with compliance determined at the end of each month.
- (b) Total HCl emissions from all temporary operation and experimental trials, implemented pursuant to 326 IAC 2-1.1-3(h)(3), shall be limited to one (1) ton per twelve consecutive month period, with compliance determined at the end of each month.
- (c) Total Cl₂ emissions from all temporary operation and experimental trials, implemented pursuant to 326 IAC 2-1.1-3(h)(3), shall be limited to three (3) tons per twelve consecutive month period, with compliance determined at the end of each month.

Compliance with these limits, ~~and the HAP limits from D.2.3~~ **along with HAP emissions from the chlorination process and source wide fugitive HAP emissions from storage tanks**, will limit the source-wide potential to emit of single HAP and combined HAP emissions to less than 10 and 25 tons per 12 consecutive month period, respectively, and make the requirements of 40 CFR Part 63, Subpart NNNNN and Subpart A not applicable.

Modification No. 19:

The reporting form required by Condition D.2.9 to document compliance with Condition D.2.3 has been removed. It is no longer required since the permit limit and recordkeeping requirements have been removed. The header of the form is shown below:

~~INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Part 70 Quarterly Production Report~~

Source Name: ~~_____ Dover Chemical Corporation - Hammond Works~~
Source Address: ~~_____ 3000 Sheffield Avenue, Hammond, IN 46320~~
Mailing Address: ~~_____ 3000 Sheffield Avenue, Hammond, IN 46320~~
Part 70 Permit No.: ~~_____ T089-7797-00227~~
Facility: ~~_____ Chlorination process~~
Limit: ~~_____ 12,000 tons of chlorinated hydrocarbon products per 12 consecutive month period with compliance determined at the end of each month.~~

Conclusion and Recommendation

This proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Permit Modification. The staff recommends to the Commissioner that this Part 70 Significant Permit Modification be approved.

Appendix A - Emission Summary

Company Name : Dover Chemical - Hammond Works
Address : 3000 Sheffield Avenue, Hammond, Indiana 46327
Significant Permit Modification No. : 089-25143-00227
Part 70 Operating Permit No. : T089-7797-00227
Reviewer : David J. Matousek
Date : December 18, 2007

1) Revised Emission Factors for Chlorinated Products Manufacturing (Chlorination Process)

(The data used to calculate potential emissions was taken from an on-site stack test performed on Jun 12-14, 2006)

Maximum Chlorine Feed Rate = 3,000 lb/hr (13,140 ton/yr)
 Maximum Chlorinated Metalworking Production = 2,428 lb/hr
 Maximum Chlorinated Polybutene Production = 1,390 lb/hr
 Maximum Chlorinated Products Production = 2,428 lb/hr + 1,390 lb/hr = 3,818 lb/hr
 Ratio of Chlorinated Product to Chlorine Fed = 3,818 lb/hr / 3,000 lb/hr = 1.27
 Stack Test HCl emissions = 0.00369 lb HCl/hr and 0.0019 lb HCl/ton chlorinated product
 Stack Test Cl₂ emissions = 0.06622 lb Cl₂/hr and 0.0347 lb/ton chlorinated product

Stack Test Emission Factors				
Compound Emitted	Emission Factor (lb/lb Cl ₂ fed)	Cl ₂ Feed Rate (lb/hr)	Emission (lb/hr)	Estimated Emissions (ton/yr)
Chlorine	2.53E-05	3,000.00	0.076	0.33
Hydrochloric Acid	1.00E-06	3,000.00	0.003	0.01
Total Process Emissions				0.34

Theoretical Emission Factors				
Compound Emitted	Emission Factor (lb/ton Chlorinated Product)	Chlorinated Product Produced (ton/yr)	Emission (lb/hr)	Estimated Emissions (ton/yr)
Chlorine	1.07	12,000.00	1.47	6.42
Hydrochloric Acid	1.45	12,000.00	1.99	8.70
Total Process Emissions				15.12

2) Emissions Related to HiTEC 082 Production (New Emissions Units)

(The data used to calculate potential emissions was taken from an on-site stack test performed on June 29, 2004)

Emission Rates from Stack Test, Prior Controls

1,3 Butadiene = 1.88 lb/hr
 SO₂ = 0.00107 lb/hr
 Limiting Batch Run Time = 16 hours
 Time Process Vented to Scrubber = 2 hrs/batch
 Batches/yr = 8,760 hr/yr ÷ 16 hr/batch = 548 batches/yr

Potential Emissions (Prior to Controls)

1,3 Butadiene = (1.88 lb 1,3 butadiene/hr) x (2 hr/batch) x (548 batches/yr) ÷ (2,000 lb/ton) = 1.03 ton 1,3 Butadiene/yr
 SO₂ = (0.00107 lb SO₂/hr) x (2 hr/batch) x (548 batches/yr) ÷ (2,000 lb/ton) = 0.0006 ton/yr

Potential Emissions (After Controls)

Scrubber Control Efficiency = 99%
 1,3 Butadiene = (1.03 tons/yr) x (1 - 0.99) = 0.01 ton/yr
 SO₂ = (0.0006 tons/yr) x (1 - 0.99) = 0.000006 ton/yr

Appendix A - Emission Summary

Company Name : Dover Chemical - Hammond Works
Address : 3000 Sheffield Avenue, Hammond, Indiana 46327
Significant Permit Modification No. : 089-25143-00227
Part 70 Operating Permit No. : T089-7797-00227
Reviewer : David J. Matousek
Date : December 18, 2007

3) Total Emissions (New Emission Units)

Process	Emissions Prior to Control		Emissions After Control (TPY)	
	1,3 Butadiene	SO ₂	1,3 Butadiene	SO ₂
HiTEC Production	1.03	0.00	0.01	0.00
Storage Tanks (Fugitive)	0.01	0.00	0.01	0.00
HiTEC Loadout (Fugitive)	0.70	0.00	0.70	0.00
Total Emissions	1.74	0.00	0.72	0.00

Notes:

- Emissions from the storage tanks and HiTEC loadout were estimated by the applicant using Tanks 4.0 from the U.S. EPA. The calculations were reviewed by the Indiana Department of Environmental Management, Office of Air Quality and were found to be accurate.
- Stack testing for the HiTEC process and the chlorination process were conducted by the applicant/consultants and were monitored by the Indiana Department of Environmental Management and the Hammond Department of Environmental Management.
- Emissions using the stack test emission factors were calculated as follows:

$$\text{Emissions (lb/hr)} = (\text{Emission Factor in lb/lb}) \times (\text{Feed Rate in lb/hr})$$

$$\text{Estimated Emission (ton/yr)} = (\text{Emissions in lb/hr}) \times (8,760 \text{ hr/yr}) \div (2,000 \text{ lb/ton})$$
- Emissions using the currently permitted emission factors were calculated as follows:

$$\text{Emissions (lb/hr)} = (\text{Emission Factor in lb/ton Chlorinated Product}) \times (\text{Chlorinated Product Produced in ton/yr}) \div 8,760 \text{ hr/yr}$$

$$\text{Emissions (ton/yr)} = (\text{Emission in lb/hr}) \times (8,760 \text{ hr/yr}) \div (2,000 \text{ lb/ton})$$