Thomas M. McDermott, Jr.
Mayor

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
CITY OF HAMMOND
RONALD L. NOVAK
Director

October 24, 2006

Certified Mail: 9059 7172

Linda C. Childers, P. E.
Environmental Manager
Cargill, Inc.
1100 Indianapolis Blvd.
Hammond, IN 46320

Re: 089-22333-00203
Significant Permit Modification to
Part 70 permit T089-7994-00203

Dear Ms. Childers:

Cargill, Inc. was issued Part 70 permit on June 28, 2004, for a Wet Corn Milling facility. An application requesting changes to this permit was received on November 23, 2005. 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 installation of new Package Boiler #1 and the retirement of existing Boilers 1, 2, 6, 7, 8, and 10. The required limitations and compliance conditions have also been added.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Ronald Holder, HDEM at (219) 853-6306.

Sincerely,

Original signed by:

Ronald L. Novak, Director
Hammond Department of Environmental Management
Air Pollution Control Division

Enclosure

RH

cc: IDEM-OAQ, Mindy Hahn, Permits Administration

5925 Calumet Avenue
Hammond. IN 46320
219. 853.6306
fax: 219 853 6343

Thomas M. McDermott, Jr.
Mayor

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
CITY OF HAMMOND
RONALD L. NOVAK
Director

PART 70 OPERATING PERMIT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AIR POLLUTION CONTROL DIVISION

CARGILL, INC.
1100 INDIANAPOLIS BOULEVARD
HAMMOND, INDIANA 46320

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

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

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

Operation Permit No.: **T089-7994-00203**	
Issued By: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: June 28, 2004
Issued By: Ronald L. Novak, Director Hammond Department of Environmental Management	Expiration Date: June 28, 2009

Administrative Amendment No.: **089-19797-00203** Issuance Date: November 17, 2004
Administrative Amendment No.: **089-20933-00203** Issuance Date: April 1, 2005
Administrative Amendment No.: **089-21610-00203** Issuance Date: August 22, 2005

Significant Permit Modification No.: 089-22333-00203	Pages Affected: Entire Permit
Issued By: **Original signed by:** _____ Ronald L. Novak, Director Hammond Department of Environmental Management	Issuance Date: October 24, 2006

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SECTION A SOURCE SUMMARY

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

Responsible Official:	Plant Manager
Source Address:	1100 Indianapolis Boulevard Hammond, Indiana 46320
Mailing Address:	1100 Indianapolis Boulevard Hammond, Indiana 46320-1094
General Source Phone Number:	(219) 659-2000
SIC Code:	2046 – Wet Corn Milling
County Location:	Lake
Source Location Status:	Nonattainment for ozone under the 8-hour standard Nonattainment for PM2.5 Attainment for PM10, NOx, CO, SO2 and Lead
Source Status:	Part 70 Permit Program Major Source, under PSD or Emission Offset Rules; Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

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:

I. Biogas Flare

Biogas Flare (Unit ID 800-05-E), installed July 1995. Biogas is generated in the wastewater treatment plant by anaerobic reaction. The biogas flare converts the hydrogen sulfide (H_2S) in the biogas to sulfur dioxide (SO_2). It is used when the biogas stream is not being diverted to a plant process burner for energy recovery, which is the normal scenario. The biogas flare exhausts to stack ID S800-05-E.

II. Beta Cyclodextrin (BCD) Area and Hydroxypropyl Cyclodextrin (HPCD) Process

The BCD process uses a VOC catalyst and includes the following process units.

(a) BCD Reaction and Separation (Unit ID 127-03-B), installed May 1993. VOC emissions from two (2) BCD reactors, a product stripper, and a by-product stripper are controlled by primary condensers a, b, and c that vent to and exhaust from the secondary and final polishing condenser 127-03-B(d).

(b) BCD Dryer (Unit ID 127-01-B), installed December 1988. BCD crystals are passed through a rotary tray dryer. BCD loadout is controlled by a bag filter dust collector. This unit exhausts to stack ID S127-01-B.

(c) BCD Mill Feed Hopper (Unit ID 127-25-B), installed May 1993. Particulate emissions are controlled by dust collector (CE127-25-B) that exhausts to stack S127-25-B.

(d) No. 1 and No. 2 BCD Storage Hoppers (Unit ID 127-23-B and 127-24-B), installed in May 1993. BCD is pneumatically conveyed to these hoppers equipped with bag filter dust collectors that exhaust to stacks S127-23-B and S127-24-B.

(e) No. 1 and No. 2 Vacuum Cleaner Systems (Unit ID 127-21-B and 127-22-B), installed in May 1993. These systems are for building dust. Particulate emissions are controlled by dust collectors that exhaust to stacks S127-21-B and S127-22-B.

Hydroxypropyl Cyclodextrin (HPCD) is made using the above beta-cyclodextrin (BCD), this process includes the following unit:

(f) One (1) 5000 gallon Hydroxypropyl Cyclodextrin (HPCD) Reactor (Unit ID 127-27-B), installed in 1998. A 500 SCFM Catalytic/Thermal Oxidizer is used to oxidize 98% of the VOC emissions.

III. Grind and Feedhouse Area

(a) Gluten Dryer System (Unit ID 121-01-G), installed March 1995. Gluten meal is fed to a natural and bio gas-fired ring dryer. Particulate emissions are controlled by wet scrubber (CE121-01-G) that exhausts to stack S121-01-G.

(b) First Stage Germ Dryer Receiver (Unit ID 21A-01-G), installed May 1978. Corn germ is pneumatically transferred to a germ dryer. Particulate emissions are controlled by a cyclone (CE21A-01-G) that exhausts to stack S21A-01-G.

(c) First Stage Germ Dryer (Unit ID 21A-02-G), installed May 1978. Corn germ is fed to this dryer heated with steam from plant boilers. Particulate emissions are controlled by a cyclone and wet roto-clone in series (CE21A-02-G) that exhaust to stack S21A-02-G.

(d) Second Stage Germ Dryer Receiver (Unit ID 51A-01-G), installed May 1978. Corn germ from the first stage dryer is pneumatically conveyed to the second stage dryer. Particulate emissions are controlled by a cyclone (CE51A-01-G) that exhausts to stack S51A-01-G.

(e) Second Stage Germ Dryer (Unit ID 51A-02-G), installed October 1995. Corn germ is fed to this dryer heated by steam from plant boilers. Particulate emissions are controlled by a cyclone and wet scrubber in series (CE51A-02-G) that exhausts to stack S51A-02-G.

(f) Fiber Drying Equipment (Unit ID 89-01-G), installed October 1995. Wet fiber is fed to this natural and bio gas-fired dryer. Particulate matter is controlled by a scrubber (CE89-01-G) that exhausts to stack S89-01-G.

(g) Rotary Feed Dryer (Unit ID 89-03-G), installed October 1995. Wet feed is fed to this natural and bio gas-fired dryer. Particulate emissions are controlled by four (4) recirculating cyclones. VOC emissions are controlled by thermal oxidizer (CE89-03-TO) that normally exhausts to the Fiber Dryer Furnace but can exhaust to its own stack S89-03-G.

(h) Corn Screenings to Grind 1 Feed Transfer (Unit ID 89-05-G), installed July 2000. Particulate emissions are controlled by a dust collector (CE89-05-G) that exhausts to stack S89-05-G.

(i) Waxy Feed Drum Dryer (Unit ID 124-01-G), installed March 1980. Waxy corn fiber is fed to a rotary drum dryer. Particulate emissions are controlled by a wet scrubber (CE124-01-G) that exhausts to stack S124-01-G.

(j) Germ Storage Silo (Unit ID 121-14-G), installed May 1996. Corn germ is pneumatically conveyed to this storage silo. Particulate emissions are controlled by a dust collector (CE121-14-G) that exhausts to stack S121-14-G.

(k) Germ Dryer/Cooler (Unit ID 124A-01-G), installed November 1994. Corn germ is fed to this natural and bio gas-fired germ dryer and cooler. Particulate emissions are controlled by four (4) cyclones (CE124A-01-G) that exhaust to stack S124A-01-G.

(l) Waxy Feed Mill Equipment (Unit ID 124-22-G), installed July 1976. Waxy corn fiber is milled and fed to a hopper equipped with a Flex-Kleen Bag Filter Collector (CE124-22-G). This system exhausts to stack S124-22-G.

(m) Corn Screenings to Grind 2 Feed Transfer (Unit ID 124-23-G), installed July 2000. Particulate emissions are controlled by a dust collector (CE124-23-G) that exhausts to stack S124-23-G.

(n) Loose Feed Bin (Unit ID 201-05-G), installed October 2000. Particulate emissions are controlled by a bin vent (CE201-05-G) that exhausts to stack S201-05-G.

(o) Hammermill #1 (Unit ID 201-01-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE201-01-G) that exhausts to stack S201-01-G.

(p) Hammermill #2 (Unit ID 201-02-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE201-02-G) that exhausts to stack S201-02-G.

(q) Pellet Cooler #1 (Unit ID 201-03-G), installed October 2000. Particulate emissions are controlled by a cyclone (CE201-03-G) that exhausts to stack S201-03-G.

(r) Pellet Cooler #2 (Unit ID 201-04-G), installed October 2000. Particulate emissions are controlled by a cyclone (CE201-04-G) that exhausts to stack S201-04-G.

(s) Central Vacuum Pelletizing (Unit ID 201-06-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE201-06-G) that exhausts to stack S201-06-G.

(t) Central Vacuum Loadout (Unit ID 200-07-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-07-G) that exhausts to stack S200-07-G.

(u) Germ Tank 1310 (Unit ID 200-01-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-01-G) that exhausts to stack S200-01-G.

(v) Gluten Tank 1410 (Unit ID 200-02-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-02-G) that exhausts to stack S200-02-G.

(w) Corn Screenings Silo (Unit ID 200-06-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-06-G) that exhausts to stack S200-06-G.

(x) Gluten Tank 1010 (Unit ID 200-04-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-04-G) that exhausts to stack S200-04-G.

(y) Germ Tank 1110 (Unit ID 200-03-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-03-G) that exhausts to stack S200-03-G.

(z) Bulk Loadout (Unit ID 200-05-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-05-G) that exhausts to stack S200-05-G.

(aa) Corn Dump Pit (Unit ID 140-05-G), installed December 1995. Particulate emissions are controlled by filter baghouse (CE140-05-G) that exhausts to stack S140-05-G.

(bb) Corn Elevator Conveying (Unit ID 140-07-G), installed December 1995. Material is transferred from corn belt 1 to corn belt 2. Particulate emissions are controlled by a filter baghouse (CE140-07-G) that exhausts to stack S140-07-G.

(cc) Corn Receiving and Storage, installed December 1995. This system includes six Storage Bins, each with its own bin vent for control of particulate emissions:

a) Bin #1: Unit ID 140-01-G
b) Bin #2: Unit ID 140-02-G
c) Bin #3: Unit ID 140-03-G
d) Bin #4: Unit ID 140-04-G
e) Bin #5: Unit ID 33-01-G
f) Bin #6: Unit ID 33-02-G

(dd) Gravity Take-up Conveyor (Corn Scale) (Unit ID 140-06-G), installed December 1995. Corn is transferred from corn belt 2 to corn belt 3. Particulate emissions are controlled by baghouse (CE140-06-G) that exhausts to stack S140-06-G.

(ee) Corn Cleaner (Unit ID 33-03-G), installed December 1995. Corn passes through mechanical cleaners. Particular emissions are controlled by a filter baghouse (CE33-03-G) that exhausts to stack S33-03-G.

(ff) Corn Screenings System (Unit ID 30-16-G), installed July 1976. This system includes a dirt storage silo equipped with bag filter collector (CE30-16-G) that exhausts to stack S30-16-G.

IV. Utility Area

The Utility area includes the following boilers used to supply steam for plant processes. A small rental, natural gas fired boiler is used when all boilers are down for maintenance.

(a) Boiler No. 1 (Unit ID 10-01-U), Combustion Engineering Model VP10R, installed in 1960, with a maximum rate of 96 MMBtu/hr heat input and natural gas-fired only. This unit exhausts through stack S10-01-U.

(b) Boiler No. 2 (Unit ID 10-02-U), Erie City Model 19M, installed in 1966, with a maximum rate of 160 MMBtu/hr heat input and natural gas-fired only. This unit exhausts through stack S10-02-U.

(c) Boiler No. 6 (Unit ID 10-03-U), Combustion Engineering Model VU-50, installed in 1956, with a maximum rate of 200 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit exhausts through stack S10-03-U.

(d) Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.

(e) Boiler No. 7 (Unit ID 10-04-U), Combustion Engineering Model VU, installed in 1944, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit also exhausts through stack S10-03-U.

(f) Boiler No. 8 (Unit ID 10-05-U), Combustion Engineering Model VU, installed in 1937, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit exhausts through stack S10-05-U.

(g) Boiler No. 10 (Unit ID 10-06-U), Combustion Engineering Model VU, installed in 1937, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit also exhausts through stack S10-05-U.

V. Refinery Area

(a) Corn Syrup Solids Manufacturing System #2 (Unit ID 18-03-R), installed July 1992. Corn syrup solids are fed through a cooling tunnel, milled, screened, and dropped to a receiver for packing. Particulate emissions are controlled by a jet pulse dust collector (CE18-03-R) that exhausts to stack S18-03-R.

(b) Corn Syrup Spray Dryer #4 (Unit ID 100-03-R), installed April 1992. Corn syrup is fed to a dryer. The solids are sent through cyclones to a packing area. Particulate emissions are controlled by a wet scrubber (CE100-03-R) that exhausts to stack S100-03-R.

(c) Corn Syrup Spray Dryer/Cooler System #3 (Unit ID 100-01-R), installed July 1987. Corn syrup is fed to a dryer. The solids are sent through cyclones to a packing area. Particulate emissions are controlled by a wet venturi scrubber (CE100-01-R) that exhausts through stack S100-01-R.

(d) Activated Carbon Regeneration Furnace #2 (Unit ID 104-01-R), installed July 1995. Spent carbon is regenerated in this natural gas-fired furnace. Emissions are controlled by a venturi scrubber and an impingement furnace scrubber (CE104-01-R) that exhaust through stack S104-01-R.

(e) Soda Ash Tank (Unit ID 104-02-R), installed July 1995. Particulate emissions from loading this tank are controlled by a venturi scrubber (CE104-02-R) that exhausts to stack S104-02-R.

(f) Filter Aid Hopper (Unit ID 104-03-R), installed July 1995. This hopper is equipped with a jet pulse baghouse (CE104-03-R) that exhausts to stack S104-03-R.

(g) Sodium Bisulfite Bag Dump (Unit ID 104-05-R), installed July 1995. This unit is controlled by a jet pulse baghouse (CE104-05-R) that exhausts to stack S104-05-R.

(h) Diatomaceous Earth Unloading (Unit ID 104-08-R), installed November 1998. Diatomaceous earth (filter aid) is unloaded from railcar to Silo. Particulate emissions are controlled by a Bin Vent Filter (DC2312) that exhausts to stack S104-08-R.

(i) Citric Acid Dump Station (Unit ID 104-09-R), installed November 1998. Citric Acid is added during the production of corn syrup. Particulate emissions are controlled by a built-in dust collector (CE104-09-R) that exhausts to stack S104-09-R.

VI. Starch Production Area

(a) Batch Scale Hopper #1 (Unit ID 34-01-S), installed January 1991. Starch is pneumatically conveyed to a hopper. Particulate emissions are controlled by a bag filter dust collector (CE34-01-S) that exhausts to stack S34-01-S.

(b) Dextrin Starch Reactor #1 (Unit ID 34-02-S), installed January 1991. Dried corn starch is fed to a reactor heated by steam from the plant boilers. Particulate emissions are controlled by a bag filter dust collector (CE34-02-S) that exhausts to stack S34-02-S.

(c) Dextrin Starch Cooler #1 (Unit ID 34-03-S), installed January 1991. Roasted corn starch is fed to a cooler and transferred to a hopper for storage. Particulate emissions are controlled by a bag filter dust collector (CE34-03-S) that exhausts to stack S34-03-S.

(d) Surge Hopper #1 (Unit ID 34-05-S), installed January 1991. Starch is pneumatically conveyed to a hopper. Particulate emissions are controlled by a bag filter dust collector (CE34-05-S) that exhausts to stack S34-05-S.

(e) Dextrin Feed Hoppers #1 and #2 (System #1) (Unit IDs 34-06-S and 34-07-S), installed April 1993. Starch is gravity conveyed to these hoppers. Particulate emissions are controlled by bag filter dust collectors (CE34-06-S and CE34-07-S) that exhaust to stacks S34-06-S and S34-07-S.

(f) Batch Scale Hopper #2 (Unit ID 34B-13-S), installed October 1993. Starch is pneumatically conveyed to a hopper. Particulate emissions are controlled by a bag filter dust collector (CE34B-13-S) that exhausts to stack S34B-13-S.

(g) Dextrin Starch Reactor #2 (Unit ID 34B-04-S), installed October 1993. Dried corn starch is fed to a reactor heated by steam from the plant boilers. Particulate emissions are controlled by a bag filter dust collector (CE34B-04-S) that exhausts to stack S34B-04-S.

(h) Dextrin Starch Cooler #2 (Unit ID 34B-01-S), installed October 1993. Roasted corn starch is fed to a cooler and transferred to a hopper for storage. Particulate emissions are controlled by dust collector (CE34B-01-S) that exhausts to stack S34B-01-S.

(i) Surge Hopper #2 (Unit ID 34B-03-S), installed October 1993. Starch is pneumatically conveyed to a hopper. Particulate emissions are controlled by a bag filter dust collector (CE34B-03-S) that exhausts to stack S34B-03-S.

(j) Dextrin Feed Hoppers #3 and #4 (System #2) (Unit IDs 34B-05-S and 34B-06-S), installed October 1993. Starch is gravity conveyed to these hoppers. Particulate emissions are controlled by bag filter dust collectors (CE34B-05-S and CE34B-06-S) that exhaust to stacks S34B-05-S and S34B-06-S.

(k) Dextrin Bulk Loading Equipment (Unit ID 48-09-S), installed before 1977. Starch is pneumatically conveyed to this hopper. Particulate emissions are controlled by a bag filter dust collector (CE48-09-S) that exhausts to stack S48-09-S.

(l) Starch Ring Dryer #2 (Unit ID 59-03-S), installed November 1993. Starch is fed to this natural gas-fired ring dryer. Dried starch is collected with six cyclones in series. Particulate emissions are controlled by a wet scrubber (CE59-03-S) that exhausts to stack S59-03-S.

(m) Starch Milling Systems #1 and #2 (Unit IDs 59-01-S and 59-02-S), installed July 1976. Dried corn starch is milled and transferred to storage. Particulate emissions are controlled by bag filter dust collectors (CE59-01-S and CE59-02-S) that exhaust to stacks S59-01-S and S59-02-S.

(n) Starch Ring Dryer #3 (Unit ID 125-01-S), installed May 1980. Corn starch is fed to this natural gas-fired ring dryer. Dried starch is collected with six cyclones in series. Particulate emissions are controlled by a wet scrubber (CE125-01-S) that exhausts to stack S125-01-S.

(o) Special Starch Process with Starch Ring Dryer #4 (Unit ID 128-01-S), installed December 1993. Corn starch is fed to this natural gas-fired dryer. Dried starch is collected with six cyclones in series. Particulate emissions are controlled by wet scrubber (CE128-01-S) that exhausts to stack S128-01-S.

(p) Reactors #1 through #8 (Unit IDs 128-06-S through 128-13-S), installed November 1988 (1-4) and December 1991 (5-8). Corn starch and propylene oxide are reacted through Reactors 2, 3, 4, and 7 only. When propylene oxide is used in the starch reaction, VOC emissions are controlled by a thermal oxidizer that exhausts to stack S128-14-S.

(q) Sodium Sulfate Storage Bin (Unit ID 128-25-S), installed October 2000. Particulate emissions are controlled by a bin vent dust collector (FA1900), that exhausts to stack S128-25-S.

(r) Sodium Sulfate Weigh Bin (Unit ID 128-26-S), installed October 2000. Particulate emissions are controlled by a bin vent dust collector (FA1950), that exhausts to stack S128-26-S.

(s) Cornstarch Storage Bins #20 through #36 (Unit IDs 120-01-S through 120-17-S), installed July 1990. Corn starch is pneumatically conveyed to these storage bins. Particulate emissions are controlled by bag filter dust collectors that exhaust to stacks S120-01-S through S120-17-S.

(t) Waxy Cornstarch Bulk Storage Bins #95 through #98 (Unit IDs 126-01-S through 126-04-S), replaced in January 1996. Waxy cornstarch is conveyed to these bins. Particulate emissions are controlled by dust collectors (CE126-01-S through CE126-04-S) that exhaust to stacks S126-01-S through S126-04-S.

(u) Cornstarch Blending Systems #1 through #4 (Unit IDs 130-01-S through 130-04-S), installed April 1988. Cornstarch is blended and moved to the warehouse for packing. Particulate emissions are controlled by bag filter dust collectors (CE130-01-S through 130-04-S) that exhaust to stacks S130-01-S through S130-04-S.

(v) Dextrin Blender (Unit ID 130-05-S), installed October 1993. Cornstarch is blended and moved to the warehouse for packing. Particulate emissions are controlled by a bag filter dust collector (CE130-05-S) that exhausts to stack S130-05-S.

(w) One (1) 28,000 gallon horizontal propylene oxide tank (Unit ID 93-18-S), installed in 1988, with 95% efficient vapor recovery (liquid nitrogen condenser). This tank also provides propylene oxide to other starch processes.

VII. Starch Warehouse Area

(a) Channel 2 Receiver (Unit ID 93-32-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-32-W.

(b) Channel 3 Receiver (Unit ID 93-33-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-33-W.

(c) Channel 4 Receiver (Unit ID 93-34-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-34-W.

(d) Channel 6 Receiver (Unit ID 93-35-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-35-W.

(e) Channel 4/6 Packing (Unit ID 93-37-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-37-W.

(f) Channel 2/3 Packing (Unit ID 93-36-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-36-W.

(g) Central Vacuum System (Unit ID 93-38-W), installed October 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-38-W.

(h) Dried Corn Syrup Conveying System (Unit ID 93-04-W), installed July 1976. Particulate emissions are controlled by a baghouse (CE93-04-W) that exhausts to stack S93-04-W.

(i) Corn Syrup Solids Conveying System (Unit ID 93-05-W), installed July 1976. Particulate emissions are controlled by a baghouse (CE93-05-W) that exhausts to stack S93-05-W.

(j) Frodex Semi-bulk Packing System (Unit ID 93-08-W), installed September 1989. Particulate emissions are controlled by a baghouse (CE93-08-W) that exhausts to stack S93-08-W.

(k) Corn Starch Bag Dumping Stations #1 and #2 (Unit IDs 93-09-W and 93-10-W), installed April 1988. Particulate emissions are controlled by bag filter dust collectors (CE93-09-W and CE93-10-W) that exhaust to stacks S93-09-W and S93-10-W.

(l) Starch Bulk Loading (Unit ID 93-14-W), installed April 1995. Particulate emissions are controlled by a baghouse (CE93-14-W) that exhausts to stack S93-14-W.

(m) Starch Bulk Loading Vacuum Cleanup System (Unit ID 93-15-W), installed February 1994. Cleanup for cornstarch spills. Particulate emissions are controlled by bag filter dust collector (CE93-15-W) that exhausts to stack S93-15-W.

(n) Starch Mixing and Bulk Bagging Systems #1 and #2 (Unit IDs 93-16-W and 93-17-W), installed August 1995. Particulate emissions are controlled by baghouses (CE93-16-W and CE93-17-W) that exhaust to stacks S93-16-W and S93-17-W.

(o) P.G. Starch Receiver (Unit ID 93-18-W), installed September 1999. Starch is received from P.G. starch roll dryers for packaging. Particulate emissions are controlled by a dust collector (CE93-18-W) that exhausts to stack S93-18-W.

(p) P.G. Starch Packing (Unit ID 93-39-W), installed January 2000. Particulate emissions are controlled by a dust collector (CE93-39-W) that exhausts to stack S93-39-W.

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

This source also consists of insignificant activities with potential uncontrolled emissions below the exemption levels specified in 326 IAC 2-1.1-3(d)(1), including these defined in 326 IAC 2-7-1(21).

1. Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour [326 IAC 6-1-2].

2. Fuel oil-fired combustion sources with heat input equal to or less than 2 million (2,000,000) Btu per hour and firing fuel containing less than five-tenths (0.5) percent sulfur by weight [326 IAC 6-1-2].

3. Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hour.

4. Combustion source flame safety purging on startup.

5. A gasoline fuel transfer and dispensing operation handling less than or equal to 1,300 gallons per day, such as filling of tanks, locomotives, automobiles, having a storage capacity less than or equal to 10,500 gallons.

6. A petroleum fuel, other than gasoline, dispensing facility, having a storage capacity of less than or equal to 10,500 gallons, and dispensing less than or equal to 230,000 gallons per month.

7. VOC and HAP storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.

8. VOC and HAP vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

9. Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

10. Machining where an aqueous cutting coolant continuously floods the machining interface.

11. Cleaners and solvents characterized as follows:

    A) having a vapor pressure equal to or less than 2 kPa; 15mm Hg; or 0.3 psi measured at 38°C (100°F) or;

    B) having a vapor pressure equal to or less than 0.7 kPa; 5mm Hg; or 0.1 psi measured at 20°C (68°F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

12. The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [326 IAC 6-1-2]

13. Closed loop heating and cooling systems.

14. Structural steel and bridge fabricating activities using 80 tons or less of welding consumables.

15. Solvent recycling systems with batch capacity less than or equal to 100 gallons.

16. Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

17. Operation using aqueous solutions containing less than 1% by weight of VOCs excluding HAPs.

18. Noncontact cooling tower systems with forced and induced draft cooling tower system not regulated under a NESHAP.

19. Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.

20. Heat exchanger cleaning and repair.

21. Process vessel degassing and cleaning to prepare for internal repairs.

22. Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]

23. Asbestos abatement projects regulated by 326 IAC 14-10.

24. Purging of gas lines and vessels that is regulated to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

25. Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

26. Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.

27. On-site fire and emergency response training approved by the department.

28. Diesel emergency generators not exceeding 1600 horsepower.

29. Stationary fire pumps.

30. Grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring; buffing; polishing; abrasive blasting; pneumatic conveying; and woodworking operations [326 IAC 6-1-2]

31. Filter or coalescer media changeout.

32. A laboratory as defined in 326 IAC 2-7-1(21)(D).

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 it is a major source, as defined in 326 IAC 2-7-1(22).

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 2-1.1-9.9]

This permit (T089-7994-00203) 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.

B.3 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, Hammond Department of Environmental Management, 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 the Hammond Department of Environmental Management.

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

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

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

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

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

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

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

(a) The Permittee shall furnish to IDEM, OAQ, 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 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

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) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

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 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;

(IDEM)
Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-1078 (ask for Compliance Section)
Facsimile Number: 317-233-6865

(HDEM)
Telephone Number: 219-853-6306
Facsimile Number: 219-853-6343

(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

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

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

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, 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) All previous registrations and permits are superseded by this permit.

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

(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

and

Hammond Department of Environmental Management
5925 Calumet Avenue
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.15 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

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

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ, and 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(40) and 326 IAC 2-7-1(21). 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
and

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

(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 take 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.17 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

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.18 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.19 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 emissions allowable under 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

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 which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes 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 increases and decreases in emissions in 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.20 Source Modification Requirement [326 IAC 2-7-10.5]

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

B.21 Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, 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.22 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

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

(a) The Permittee shall pay annual fees to IDEM, OAQ, 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, or 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 (BLT)), to determine the appropriate permit fee.

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

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

SECTION C SOURCE OPERATION CONDITIONS

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

C.1 Opacity [326 IAC 5-1]

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

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

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

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

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

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

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

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

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

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

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

(a) The average instantaneous opacity of fugitive particulate emissions from a paved road shall not exceed ten percent (10%).

(b) The average instantaneous opacity of fugitive particulate emissions from an unpaved road shall not exceed ten percent (10%).

(c) The average instantaneous opacity of fugitive particulate emissions from batch transfer shall not exceed ten percent (10%).

(d) The opacity of fugitive particulate emissions from continuous transfer of material onto and out of storage piles shall not exceed ten percent (10%) on a three (3) minute average.

(e) The opacity of fugitive particulate emissions from storage piles shall not exceed ten percent (10%) on a six (6) minute average.

(f) There shall be a zero (0) percent frequency of visible emission observations of a material during the inplant transportation of material by truck or rail at any time.

(g) The opacity of fugitive particulate emissions from the inplant transportation of material by front end loaders and skip hoists shall not exceed ten percent (10%).

(h) There shall be a zero (0) percent frequency of visible emission observations from a building enclosing all or part of the material processing equipment, except from a vent in the building.

(i) The PM_{10} emissions from building vents shall not exceed twenty-two thousandths (0.022) grains per dry standard cubic foot and ten percent (10%) opacity.

(j) The opacity of particulate emissions from dust handling equipment shall not exceed ten percent (10%).

(k) Any facility or operation not specified in 326 IAC 6-1-11.1(d) shall meet a twenty percent (20%), three (3) minute average opacity standard.

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

C.6 Lake County Particulate Matter Contingency Measures [326 IAC 6-1-11.2]

The Permittee shall comply with the applicable provisions of 326 IAC 6-1-11.2 (Lake County Particulate Matter Contingency Measures).

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

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

C.8 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 1-7-1(3), 1-7-2, 1-7-3(c) and (d), 1-7-4, and 1-7-5 (a), (b), and (d) are not federally enforceable.

C.9 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

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 60.145(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.10 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

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 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.11 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.12 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

and

Hammond Department of Environmental Management
5925 Calumet Avenue
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.13 Continuous Compliance Plan [326 IAC 6-1-10.1(l)] [326 IAC 6-1-10.1(u)]

Pursuant to 326 IAC 6-1-10.1(l) (Lake County PM10 Emission Requirements), the Permittee shall submit to IDEM and HDEM, and maintain at the source a copy of the Continuous Compliance Plan. The Permittee shall perform the inspections, monitoring, and record keeping requirements as specified in 326 IAC 6-1-10.1 (p) through (r). The Permittee shall update the CCP, as needed, retain a copy on site, and make the updated CCP available for inspection as specified in 326 IAC 6-1-10.1(u).

C.14 Maintenance of Continuous Emission Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

(a) The Permittee shall install, calibrate, maintain, and operate all necessary continuous emission monitoring systems (CEMS) and related equipment.

(b) In the event that a breakdown of a continuous emission monitoring system occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

(c) Nothing in this permit shall excuse the Permittee from complying with the requirements to operate a continuous emission monitoring system pursuant to the rule or permit condition that requires the monitoring equipment to be installed and operated.

C.15 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.16 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

(a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

(b) Whenever a condition in this permit requires the measurement of a temperature, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

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

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

C.17 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 February 26, 1991.

(b) Upon direct notification by IDEM, OAQ, or 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.18 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 source must comply with the applicable requirements of 40 CFR 68.

C.19 Compliance Response Plan – Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]

(a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance, and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shut-down, and Malfunction (SSM) Plan) under 40 CFR 60/63, such plan shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ and HDEM upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:

(1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.

(2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance, and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shut-down, and Malfunction (SSM) Plan) and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance, and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shut-down, and Malfunction (SSM) Plan) to include such response steps taken.

The OMM Plan (or Parametric Monitoring and SMM Plan) shall be submitted within the time frames specified by the applicable 40 CFR 60/63 requirement.

(b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:

(1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance, and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shut-down, and Malfunction (SSM) Plan); or

(2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance, and Monitoring (OMM) Plan (or Parametric Monitoring Plan and Start-up, Shut-down, and Malfunction (SSM) Plan) is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

(3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM-OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.

(4) Failure to take reasonable response steps shall be considered a deviation from the permit.

(c) The Permittee is not required to take any further response steps for any of the following reasons:

(1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.

(3) An automatic measurement was taken when the process was not operating.

(4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.

(d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permitee shall report such deviations pursuant to Section B - Deviations from Permit Requirements and Conditions.

(e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

(f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.20 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.21 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 purposes of Part 70 fee assessment.

This 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

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).

(b) 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.22 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [326 IAC 2-2] [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 Clean Unit, 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)) may result in significant emissions increase 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 (ll)) 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)(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.23 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [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

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.

(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
Indianapolis, Indiana 46204

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.24 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)]: I. Biogas Flare

Biogas Flare (Unit ID 800-05-E), installed July 1995. Biogas is generated in the wastewater treatment plant by anaerobic reaction. The biogas flare converts the hydrogen sulfide (H_2S) in the biogas to sulfur dioxide (SO_2). It is used when the biogas stream is not being diverted to a plant process burner for energy recovery, which is the normal scenario. The biogas flare exhausts to stack ID S800-05-E.

(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 Emission Limitations and Standards [326 IAC 2-2]

Any change or modification to the Biogas Flare which increases the potential to emit (PTE) of Hydrogen Sulfide (H_2S) to above ten (10) tons per year, shall require prior approval of the IDEM-OAQ and HDEM. Compliance with this limitation renders 326 IAC 2-2 not applicable.

Compliance Determination Requirements

D.1.2 Compliance Determination Requirements

To determine compliance with Condition D.1.1, the biogas stream from anaerobic reaction shall be diverted to an active plant process burner or to the biogas flare at all times that a biogas stream is being generated.

Compliance Monitoring Requirements

D.1.3 Flame Presence

The Permittee shall monitor and record once per shift the flame presence for the Biogas Flare during each shift of operation that the biogas stream is venting to the flare. The flame presence shall be determined using either a thermal sensor or flame detector at the point of the flame.

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

D.1.4 Record Keeping Requirements

(a) To document compliance with Condition D.1.3, the Permittee shall maintain records of the flame presence.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: II. Beta Cyclodextrin (BCD) Area and Hydroxypropyl Cyclodextrin (HPCD)

The BCD process uses a VOC catalyst and includes the following process units.

(a) BCD Reaction and Separation (Unit ID 127-03-B), installed May 1993. VOC emissions from two (2) BCD reactors, a product stripper, and a by-product stripper are controlled by primary condensers a, b, and c that vent to and exhaust from the secondary and final polishing condenser 127-03-B(d).

(b) BCD Dryer (Unit ID 127-01-B), installed December 1988. BCD crystals are passed through a rotary tray dryer. BCD loadout is controlled by a bag filter dust collector. This unit exhausts to stack ID S127-01-B.

(c) BCD Mill Feed Hopper (Unit ID 127-25-B), installed May 1993. Particulate emissions are controlled by bag filter dust collector (CE127-25-B) that exhausts to stack S127-25-B.

(d) No. 1 and No. 2 BCD Storage Hoppers (Unit IDs 127-23-B and 127-24-B), installed May 1993. BCD is pneumatically conveyed to these hoppers equipped with bag filter dust collectors that exhaust to stacks S127-23-B and S127-24-B.

(e) No. 1 and No. 2 Vacuum Cleaner Systems (Unit IDs 127-21-B and 127-22-B), installed May 1993. The systems are used for building dust. Particulate emissions are controlled by bag filter dust collectors that exhaust to stacks S127-21-B and S127-22-B.

Hydroxypropyl Cyclodextrin (HPCD) is made using the above beta-cyclodextrin (BCD) and includes the following units:

(f) One (1) 5,000 gallon Hydroxypropyl Cyclodextrin (HPCD) Reactor (Unit ID 127-27-B), installed 1998. A 500 SCFM Catalytic/Thermal Oxidizer is used to oxidize 98% of the VOC emissions.

(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 VOC Emissions [326 IAC 2-3] [326 IAC 8-1-6] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 2-3 (Emission Offset) and/or 326 IAC 8-1-6 (New facilities, general reduction requirements (BACT)). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 2-3 and 326 IAC 8-1-6. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 2-3 or 326 IAC 8-1-6 and a schedule for achieving compliance with such requirements.

D.2.2 VOC Emissions [326 IAC 8-7] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 8-7. On February 27, 1995, the source submitted to IDEM, OAQ a Reasonably Achievable Control Technology (RACT) plan pursuant to 326 IAC 8-7-2. A revised RACT plan was requested and submitted by the source on August 22, 2003. The IDEM, OAQ is currently reviewing the RACT plan submitted.

The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 8-7 and a schedule for achieving compliance with such requirements.

D.2.3 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-10.1(d)]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 Emission Requirements), subsection (d), emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit (gr/dscf)	PM10 Limit (lbs/hr)
BCD Dryer (127-01-B)	0.01	0.57
BCD Mill Feed Hopper (127-25-B)	0.01	0.028
BCD Storage Hoppers #1 & #2 (127-23-B) & (127-24-B)	0.01 each	0.18 each
BCD Vacuum Cleaners #1 & #2 (127-21-B) & (127-22-B)	0.01 each	0.031 each

D.2.4 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

Pursuant to CP 089-01210-00203, issued July 1998, the VOC emissions from the HPCD Reactor shall be limited to 0.250 lbs/hr which is equivalent to 1.1 TPY as maintained by a thermal oxidizer with an overall capture and control efficiency of 98% in accordance with the best available control technology (BACT) requirement in 326 IAC 8-1-6 (New Facilities: General Reduction Requirements).

D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each BCD and HPCD facility control device.

Compliance Determination Requirements

D.2.6 Testing Requirements [326 IAC 2-7-6(1) and (6)] [326 IAC 2-1.1-11]

BCD Dryer (PM10) [326 IAC 6-1-10.1(d)]

Within 36 months of the issuance of this permit, in order to demonstrate compliance with Condition D.2.3, the Permittee shall perform PM-10 testing on the BCD Dryer utilizing methods as approved by the Commissioner. This test shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.2.7 Volatile Organic Compounds (VOC) [326 IAC 2-1.1-5] [326 IAC 8-7-9] [326 IAC 8-7-10]

The BCD reaction and separation condensers for VOC control shall be installed, calibrated, maintained, and operated, at a minimum, according to the manufacturer's specifications and recommendations.

D.2.8 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-10.1(d)]

In order to comply with D.2.3, the bag filter dust collectors for PM10 control shall be in operation and control emissions from their associated facilities at all times that the facilities are in operation.

D.2.9 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

In order to comply with D.2.4, the thermal oxidizer for VOC control shall be in operation and control emissions from the HPCD reactor at all times that the facilities are in operation.

D.2.10 Parametric Monitoring (Thermal Oxidizer) [326 IAC 8-1-6]

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizer for measuring operating temperature. The output of this system shall be recorded as a 3-hour average. The Permittee shall operate the thermal oxidizer at or above the 3-hour average temperature of 1300 °F.

(b) In order to maintain a 98% destruction efficiency, 100% of the vapors from the HPCD Reactor shall vent directly to the Thermal Oxidizer.

(c) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the reading is outside the above-mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

Compliance Monitoring Requirements

D.2.11 VOC Emissions (BCD) [326 IAC 2-1.1-5] [326 IAC 8-7-9] [326 IAC 8-7-10]

(a) The Permittee shall inspect the BCD reactor seals once per year and replace the seals as needed according to the manufacturer's design specifications and recommendations.

(b) The Permittee shall maintain and monitor the temperature of the water flow to condensers 127-03-B according to the manufacturer's design specifications and recommendations.

D.2.12 Parametric Monitoring (Dust Collectors)

The Permittee shall record the total static pressure drop across all baghouses or dust collectors used in conjunction with each BCD facility at least once per day when the associated facilities are in operation. When for any one reading, the pressure drop across the dust collector is outside the following ranges or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range ("H_2O)
BCD Dryer (127-01-B)	Dust Collector	0.1 - 6
BCD Mill Feed Hopper (127-25-B)	Dust Collector	0.1 - 6
BCD Storage Hoppers #1 & #2 (127-23-B) & (127-24-B)	Dust Collector	0.1 – 6 each
BCD Vacuum Cleaners #1 & #2 (127-21-B) & (127-22-B)	Dust Collector	0.1 – 6 each

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM-OAQ and HDEM and shall be calibrated at least once every six (6) months or in accordance with the manufacturer's specifications provided those specifications are available on site with the Preventive Maintenance Plan.

D.2.13 Baghouse (Dust Collector) Inspections

An inspection shall be performed each calendar quarter of all bags controlling these processes. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.2.14 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, or dust traces, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.2.15 Visible Emissions Notations

(a) Visible emission notations of each BCD and HPCD particulate stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(a) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(b) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

D.2.16 Record Keeping Requirements

(a) To document compliance with Condition D.2.4, the Permittee shall maintain records of the VOC use in the HPCD reactors (propylene oxide).

(b) To document compliance with Condition D.2.11, the Permittee shall maintain records of the results of the inspections and records of the temperature of the water flow to the condensers.

(c) To document compliance with Condition D.2.12, the Permittee shall maintain records of the total static pressure drops during normal operation.

(d) To document compliance with Condition D.2.13, the Permittee shall maintain records of the results of the inspections.

(e) To document compliance with Condition D.2.15, the Permittee shall maintain records of the visible emission notations of the BCD Area facility stack exhausts.

(f) To document compliance with Condition D.2.10, the Permittee shall record the thermal oxidizer temperature as a 3-hour average.

(g) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.17 Reporting Requirements

The source submitted to IDEM, OAQ a Reasonably Achievable Control Technology (RACT) plan pursuant to 326 IAC 8-7-2 on February 27, 1995. A revised RACT plan was requested and submitted by the source on August 22, 2003. The IDEM, OAQ is currently reviewing the RACT plan submitted. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 8-7 and a schedule for achieving compliance with such requirements.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: III. Grind and Feedhouse Area

(a) Gluten Dryer System (Unit ID 121-01-G), installed March 1995. Gluten meal is fed to a natural and bio gas-fired ring dryer. Particulate emissions are controlled by wet scrubber (CE121-01-G) that exhaust to stack S121-01-G.

(b) First Stage Germ Dryer Receiver (Unit ID 21A-01-G), installed May 1978. Corn germ is pneumatically transferred to a germ dryer. Particulate emissions are controlled by a cyclone (CE21A-01-G) that exhausts to stack S21A-01-G.

(c) First Stage Germ Dryer (Unit ID 21A-02-G), installed May 1978. Corn germ is fed to this dryer heated with steam from plant boilers. Particulate emissions are controlled by a cyclone and wet roto-clone in series (CE21A-02-G) that exhaust to stack S21A-02-G.

(d) Second Stage Germ Dryer Receiver (Unit ID 51A-01-G), installed May 1978. Corn germ from the first stage dryer is pneumatically conveyed to the second stage dryer. Particulate emissions are controlled by a cyclone (CE51A-01-G) that exhausts to stack S51A-01-G.

(e) Second Stage Germ Dryer (Unit ID 51A-02-G), installed October 1995. Corn germ is fed to this dryer heated with steam from plant boilers. Particulate emissions are controlled by a cyclone and wet scrubber in series (CE51A-02-G) that exhaust to stack S51A-02-G.

(f) Fiber Drying Equipment (Unit ID 89-01-G), installed October 1995. Wet fiber is fed to this natural and bio gas-fired dryer. Particulate matter is controlled by a scrubber (CE89-01-G) that exhausts to stack S89-01-G.

(g) Rotary Feed Dryer (Unit ID 89-03-G), installed October 1995. Wet feed is fed to this natural and bio gas-fired dryer. Particulate emissions are controlled by four (4) recirculating cyclones. VOC emissions are controlled by a thermal oxidizer (CE89-03-TO) that normally exhausts to the Fiber Dryer Furnace but can exhaust to its own stack S89-03-G.

(h) Corn Screenings to Grind 1 Feed Transfer (Unit ID 89-05-G), installed July 2000. Particulate emissions are controlled by a dust collector (CE89-05-G) that exhausts to stack S89-05-G.

(i) Waxy Feed Drum Dryer (Unit ID 124-01-G), installed March 1980. Waxy corn fiber is fed to a rotary drum dryer. Particulate emissions are controlled by a wet scrubber (CE124-01-G) that exhausts to stack S124-01-G.

(j) Germ Storage Silo (Unit ID 121-14-G), installed May 1996. Corn germ is pneumatically conveyed to this storage silo. Particulate emissions are controlled by a dust collector (CE121-14-G) that exhausts to stack S121-14-G.

(k) Germ Dryer/Cooler (Unit ID 124A-01-G), installed November 1994. Corn germ is fed to this natural and bio gas-fired germ dryer and cooler. Particulate emissions are controlled by four (4) cyclones (CE124A-01-G) that exhaust to stack S124A-01-G.

(l) Waxy Feed Mill Equipment (Unit ID 124-22-G), installed July 1976. Waxy corn fiber is milled and fed to a hopper equipped with a Flex-Kleen Bag Filter Collector (CE124-22-G) that exhausts to stack S124-22-G.

(m) Corn Screenings to Grind 2 Feed Transfer (Unit ID 124-23-G), installed July 2000. Particulate emissions are controlled by a dust collector (CE124-23-G) that exhausts to stack S124-23-G.

(n) Loose Feed Bin (Unit ID 201-05-G), installed October 2000. Particulate emissions are controlled by a bin vent (CE201-05-G) that exhausts to stack S201-05-G.

(o) Hammermill #1 (Unit ID 201-01-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE201-01-G) that exhausts to stack S201-01-G.

(p) Hammermill #2 (Unit ID 201-02-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE201-02-G) that exhausts to stack S201-02-G.

(q) Pellet Cooler #1 (Unit ID 201-03-G), installed October 2000. Particulate emissions are controlled by a cyclone (CE201-03-G) that exhausts to stack S201-03-G.

(r) Pellet Cooler #2 (Unit ID 201-04-G), installed October 2000. Particulate emissions are controlled by a cyclone (CE201-04-G) that exhausts to stack S201-04-G.

(s) Central Vacuum Pelletizing (Unit ID 201-06-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE201-06-G) that exhausts to stack S201-06-G.

(t) Central Vacuum Loadout (Unit ID 200-07-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-07-G) that exhausts to stack S200-07-G.

(u) Germ Tank 1310 (Unit ID 200-01-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-01-G) that exhausts to stack S200-01-G.

(v) Gluten Tank 1410 (Unit ID 200-02-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-02-G) that exhausts to stack S200-02-G.

(w) Corn Screenings Silo (Unit ID 200-06-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-06-G) that exhausts to stack S200-06-G.

(x) Gluten Tank 1010 (Unit ID 200-04-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-04-G) that exhausts to stack S200-04-G.

(y) Germ Tank 1110 (Unit ID 200-03-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-03-G) that exhausts to stack S200-03-G.

(z) Bulk Loadout (Unit ID 200-05-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-05-G) that exhausts to stack S200-05-G.

(aa) Corn Dump Pit (Unit ID 140-05-G), installed December 1995. Particulate emissions are controlled by a filter baghouse (CE140-05-G) that exhausts to stack S140-05-G.

(bb) Corn Elevator Conveying (Unit ID 140-07-G), installed December 1995. Material is transferred from corn belt 1 to corn belt 2. Particulate emissions are controlled by a filter baghouse (CE140-07-G) that exhausts to stack S140-07-G.

(cc) Corn Receiving and Storage, installed December 1995. This system includes six Storage Bins, each with its own bin vent for control of particulate emissions:

Bin #1: Unit ID 140-01-G
Bin #2: Unit ID 140-02-G
Bin #3: Unit ID 140-03-G
Bin #4: Unit ID 140-04-G
Bin #5: Unit ID 33-01-G
Bin #6: Unit ID 33-02-G

(dd) Gravity Take-up Conveyor (Corn Scale System) (Unit ID 140-06-G), installed December 1995. Corn is transferred from corn belt 2 to corn belt 3. Particulate emissions are controlled by a filter baghouse (CE140-06-G) that exhausts to stack S140-06-G.

(ee) Corn Cleaner (Unit ID 33-03-G), installed December 1995. Corn passes through mechanical cleaners. Particulate emissions are controlled by a filter baghouse (CE33-03-G) that exhausts to stack S33-03-G.

(ff) Corn Screenings System (Unit ID 30-16-G), installed July 1976. This system includes a dirt storage silo equipped with a bag filter collector (CE30-16-G) that exhausts to stack S30-16-G.

(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 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-10.1(d)]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 Emission Requirements), subsection (d), emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

	Unit ID	PM10 Limit (gr/dscf)	PM10 Limit (lbs/hr)
(a)	Gluten Dryer System (121-01-G)	0.03	3.0
(b)	First Stage Germ Dryer Receiver (21A-01-G)	0.015	0.12
(c)	First Stage Germ Dryer Exhaust (21A-02-G)	0.01	0.67
(d)	Second Stage Germ Dryer Receiver (51A-01-G)	0.02	0.19
(e)	Second Stage Germ Dryer Exhaust (51A-02-G)	0.015	1.01
(f)	Fiber Drying Equipment (89-01-G)	0.01	4.5
(g)	Rotary Feed Dryer (89-03-G)	0.03	4.5
(i)	Waxy Feed Drum Dryer (124-01-G)	0.03	11.12
(j)	Germ Storage Silo (121-14-G)	0.01	0.1
(k)	Germ Dryer/Cooler (124A-01-G)	0.02	1.872
(l)	Waxy Feed Mill Equipment (124-22-G)	0.01	0.051
(aa)	Corn Dump Pit (140-05-G)	0.01	1.286
(bb)	Corn Elevator Conveying (140-07-G)	0.01	0.086
(cc)	Corn Receiving and Storage Bins 1, 2, 3, & 4	0.02 each	0.343 each
(cc)	Corn Receiving and Storage Day Tanks 5 & 6	0.02 each	0.171 each
(dd)	Gravity Take-up Conveyor (140-06-G)	0.01	0.154
(ee)	Corn Cleaner (33-03-G)	0.01	0.21
(ff)	Corn Screenings System (30-16-G)	0.01	0.06

D.3.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-2(h)]

Pursuant to Significant Source Modification 089-14389-00203, issued September 2001, and 326 IAC 6-1-2(h) (Nonattainment Area Particulate Limitations), emissions of particulate matter less than ten (10) microns in diameter (PM10) from the following units shall not exceed the following limitations:

	Unit ID	PM10 Limit (gr/dscf)	PM10 Limit (lbs/hr)
(h)	Dry Feed Transfer (89-05-G)	0.01	0.09
(m)	Corn Screen to Grind 2 Wet Feed Transfer	0.01	0.086
(n)	Loose Feed Bin (201-05-G)	0.005	0.02
(o)	Hammermill #1 (201-01-G)	0.005	0.15
(p)	Hammermill #2 (201-02-G)	0.005	0.15
(q)	Pellet Cooler #1 (Unit ID 201-03-G	0.015	1.66
(r)	Pellet Cooler #2 (Unit ID 201-04-G	0.015	1.66
(s)	Central Vacuum Pelletizing (201-06-G)	0.005	0.02
(t)	Central Vacuum Loadout (200-07-G)	0.005	0.02
(u)	Germ Tank 1310 (200-01-G)	0.005	0.05
(v)	Gluten Tank 1410 (200-02-G),	0.005	0.05
(w)	Corn Screenings Silo (200-06-G)	0.005	0.02
(x)	Gluten Tank 1010 (200-04-G)	0.005	0.05
(y)	Germ Tank 1110 (200-03-G)	0.005	0.05
(z)	Bulk Loadout (200-05-G)	0.005	1.21

D.3.3 VOC Emissions [326 IAC 2-3] [326 IAC 8-1-6] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 2-3 (Emission Offset) and/or 326 IAC 8-1-6 (New facilities, general reduction requirements (BACT)). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 2-3 and 326 IAC 8-1-6. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 2-3 or 326 IAC 8-1-6 and a schedule for achieving compliance with such requirements.

D.3.4 VOC Emissions [326 IAC 8-7] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 8-7. On February 27, 1995, the source submitted to IDEM, OAQ a Reasonably Achievable Control Technology (RACT) plan pursuant to 326 IAC 8-7-2. A revised RACT plan was requested and submitted by the source on August 22, 2003. The IDEM, OAQ is currently reviewing the RACT plan submitted. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 8-7 and a schedule for achieving compliance with such requirements.

D.3.5 SO_2 Emissions [326 IAC 2-3] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 2-3 (Emission Offset). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 2-3. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 2-3 and a schedule for achieving compliance with such requirements.

D.3.6 Volatile Organic Compounds [326 IAC 8-1-6]

Pursuant to Significant Source Modification 089-14389-00203, issued September 2001, and 326 IAC 8-1-6, the Thermal Oxidizer for the Rotary Feed Dryer shall achieve a 90% reduction of VOC emissions.

D.3.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each Grind and Feedhouse Area facility control device.

Compliance Determination Requirements

D.3.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 36 months of the issuance of this permit, in order to demonstrate compliance with Conditions D.3.1 and D.3.2, the Permittee shall perform PM-10 testing on the following units utilizing methods as approved by the Commissioner.

(a) Gluten Ring Dryer
(b) Fiber Drying Equipment/Rotary Feed Dryer System

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.3.9 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-10.1(d)] [326 IAC 6-1-2(h)]

In order to comply with D.3.1 and D.3.2, the control devices for PM10 control shall be in operation and control emissions from their associated facilities at all times that the facilities are in operation.

D.3.10 Volatile Organic Compounds (VOC) [326 IAC 8-1-6]

The thermal oxidizer for VOC control shall be in operation and control emissions from the Rotary Feed Dryer at all times that the facility is in operation. The thermal oxidizer shall maintain a minimum operating temperature of 1200°F and a maximum flow rate of 35,000 acfm.

D.3.11 Parametric Monitoring (Thermal Oxidizer) [326 IAC 8-1-6]

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizer for measuring operating temperature. The thermal oxidizer shall maintain a minimum operating temperature of 1200°F and a maximum flow rate of 35,000 acfm.

(b) During normal operation, 100% of the gas stream from the Rotary Feed Dryer shall be captured and shall pass through the Thermal Oxidizer.

(c) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the reading is outside the above-mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

Compliance Monitoring Requirements

D.3.12 Visible Emissions Notations

(a) Visible emission notations of each Grind and Feedhouse facility stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.3.13 Parametric Monitoring (Dust Collectors)

The Permittee shall record the total static pressure drop across each particulate control device used in the Grind and Feedhouse Area at least once per day when the associated system is in operation. When for any one reading, the pressure drop across the control device is outside any of the following ranges or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM-OAQ and HDEM and shall be calibrated at least once every six (6) months or in accordance with the manufacturer’s specifications provided those specifications are available on site with the Preventive Maintenance Plan.

D.3.14 Parametric Monitoring (Scrubbers)

The Permittee shall record the recirculation liquid flow rate and total static pressure drop across each scrubber used in the Grind and Feedhouse Area, at least once per day when the associated system is in operation. When for any one reading, the pressure drop across a scrubber is outside the following ranges or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

	Unit ID	Control Equipment	Pressure Drop Range (inches of water)
(a)	Gluten Ring Dryer System (121-01-G)	Wet Scrubber	12 -19
(b)	First Stage Germ Dryer Receiver (21A-01-G)	Cyclone	N/A
(c)	First Stage Germ Dryer Exhaust (21A-02-G)	Cyclone and Roto-clone	N/A
(d)	Second Stage Germ Dryer Receiver (51A-01-G)	Cyclone	N/A
(e)	Second Stage Germ Dryer Exhaust (51A-02-G)	Scrubber	TBD
(f)	Fiber Drying Equipment (89-01-G)	Scrubber	0.1 - 6
(g)	Rotary Feed Dryer (89-03-G)	4 Cyclones	N/A
(h)	Dry Feed Transfer (89-05-G)	Dust Collector	0.1 - 6
(i)	Waxy Feed Drum Dryer (124-01-G)	Wet Scrubber	TBD
(j)	Germ Storage Silo (121-14-G)	Dust Collector	0.1 - 6
(k)	Germ Dryer/Cooler (124A-01-G)	4 Cyclones	N/A
(l)	Waxy Feed Mill Equipment (124-22-G)	Dust Collector	0.1 - 6
(m)	Corn Screen to G2 Wet Feed Transfer (124-23-G)	Dust Collector	0.1 - 6
(n)	Loose Feed Bin Vent (201-05-G)	Bin Vent Filter	0.1 - 6
(o)	Hammermill #1 (201-01-G)	Dust Collector	0.1 - 6
(p)	Hammermill #2 (201-02-G)	Dust Collector	0.1 - 6
(q)	Pellet Cooler #1 (201-03-G)	Cyclone	N/A
(r)	Pellet Cooler #2 (201-04-G)	Cyclone	N/A
(s)	Central Vacuum Pelletizing (201-06-G)	Dust Collector	0.1 - 6
(t)	Central Vacuum Loadout (200-07-G)	Dust Collector	0.1 - 6
(u)	Germ Tank 1310 (200-01-G)	Dust Collector	0.1 - 6
(v)	Gluten Tank 1410 (200-02-G)	Dust Collector	0.1 - 6
(w)	Corn Screenings Silo (200-06-G)	Dust Collector	0.1 - 6
(x)	Gluten Tank 1010 (200-04-G)	Dust Collector	0.1 - 6
(y)	Germ Tank 1110 (200-03-G)	Dust Collector	0.1 - 6
(z)	Bulk Loadout (200-05-G)	Dust Collector	0.1 - 6
(aa)	Corn Dump Pit (140-05-G)	Dust Collector	0.1 - 6
(bb)	Corn Elevator Conveying (140-07-G)	Dust Collector	0.1 - 6
(cc)	Corn Receiving and Storage Silos (6)	Bin Vents	NA
(dd)	Gravity Take-up Conveyor (140-06-G)	Dust Collector	0.1 - 6
(ee)	Corn Cleaner (33-03-G)	Dust Collector	0.1 - 6
(ff)	Corn Screenings System (30-16-G)	Dust Collector	0.1 - 6

D.3.15 Baghouse (Dust Collector) Inspections

An inspection shall be performed each calendar quarter of all bags that control particulate emissions. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.3.16 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, or dust traces, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.3.17 Cyclone Inspections

An inspection shall be performed each calendar quarter of all cyclones used as control devices.

D.3.18 Cyclone Failure Detection

In the event that cyclone failure has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.3.19 Scrubber Inspections

An inspection shall be performed each calendar quarter of all scrubbers used as control devices. Defective scrubber parts shall be replaced. A record shall be kept of the results of the inspection and any corrective actions taken.

D.3.20 Scrubber Failure Detection

In the event that a scrubber's failure has been observed:

(a) The affected unit will be shut down immediately until the failed unit has been replaced.

(b) Based on the confirmed findings of an inspection, any additional corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.

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

D.3.21 Record Keeping Requirements

(a) To document compliance with Condition D.3.12, the Permittee shall maintain records of visible emission notations of the Grind and Feedhouse Area Facility stack exhausts.

(b) To document compliance with Condition D.3.13 and D.3.14, the Permittee shall maintain daily records of the total static pressure drop readings and the scrubber recirculation liquid flow rates.

(c) To document compliance with Condition D.3.11, the Permittee shall record the thermal oxidizer operating temperature once per day when the unit is operating. The Permittee shall also have a record of the operating temperature used to demonstrate compliance during the most recent compliance stack test.

(d) To document compliance with Condition D.3.15, D.3.17, and D.3.19, the Permittee shall maintain records of the results of the inspections.

(e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: **IV. Utility Area**

The Utility area includes the following boilers used to supply steam for plant processes. A small rental, natural gas-fired boiler is used when all boilers are down for maintenance.

(a) Boiler No. 1 (Unit ID 10-01-U), Combustion Engineering Model VP10R, installed in 1960, with a maximum rate of 96 MMBtu/hr heat input and natural gas-fired only. This unit exhausts through stack S10-01-U.

(b) Boiler No. 2 (Unit ID 10-02-U), Erie City Model 19M, installed in 1966, with a maximum rate of 160 MMBtu/hr heat input and natural gas-fired only. This unit exhausts through stack S10-02-U.

(c) Boiler No. 6 (Unit ID 10-03-U), Combustion Engineering Model VU-50, installed in 1956, with a maximum rate of 200 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit exhausts through stack S10-03-U.

(d) Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.

(e) Boiler No. 7 (Unit ID 10-04-U), Combustion Engineering Model VU, installed in 1944, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit also exhausts through stack S10-03-U.

(f) Boiler No. 8 (Unit ID 10-05-U), Combustion Engineering Model VU, installed in 1937, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit exhausts through stack S10-05-U.

(g) Boiler No. 10 (Unit ID 10-06-U), Combustion Engineering Model VU, installed in 1937, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit also exhausts through stack S10-05-U.

(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 Matter less than 10 microns in diameter (PM10) [326 IAC 6.8]

Pursuant to 326 IAC 6.8-6 (Lake County: Combustion Sources; Natural Gas), section 4, Boilers #1 and #2 shall fire natural gas only and emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit (lbs/MMBtu)	PM10 Limit (lbs/hr)
Boiler #1 (10-01-U)	0.003	0.288
Boiler #2 (10-02-U)	0.003	0.468

D.4.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8]

Pursuant to 326 IAC 6.8-2 (Lake County: PM10 Emission Requirements), section 8, emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit
Stack Serving Boilers 6 & 7	30.3 lbs/hr
Stack Serving Boilers 8 & 10	22.7 lbs/hr

D.4.3 Particulate Matter Limitations for Lake County [326 IAC 6.8]

Pursuant to 326 IAC 6.8-1-2(b)(3), Package Boiler #1 shall burn natural gas only and particulate matter emissions shall not exceed 0.01 grains per dry standard cubic foot (dscf).

D.4.4 Sulfur Dioxide (SO2) [326 IAC 7-4-1.1]

Pursuant to 326 IAC 7-4-1.1 (Lake County Sulfur Dioxide Emission Limitations) sulfur dioxide emissions are limited to 2.07 lbs/MMBtu (each) for boilers 6, 7, 8, and 10 (784 lbs/hr total).

D.4.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each Utility Area Boiler.

Compliance Determination Requirements

D.4.6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

Compliance with Condition D.4.4 shall be determined utilizing one of the following options:

(a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions from boilers 6, 7, 8, and 10 do not exceed (2.07) pound per million Btu heat input (each) by:

(1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;

(2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.

(A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and

(B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.

(b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boilers using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

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

D.4.7 Operational Requirements [326 IAC 2-7-5(1)]

(a) Compliance with the particulate matter limitation in Condition D.4.3 for Package Boiler #1 shall be determined by the combustion of natural gas only.

(b) Boilers #1, #2, #6, #7, #8, and #10 shall cease operation and be permanently decommissioned when Package Boiler #1 becomes operational.

(c) Upon cessation of operation Boilers #1, #2, #6, #7, #8, and #10, Conditions D.4.1, D.4.2, D.4.4, D.4.6, D.4.8, D.4.9, and D.4.10(a) will not be applicable.

Compliance Monitoring Requirements

D.4.8 Visible Emissions Notations

(a) Visible emission notations of each boiler stack exhaust shall be performed once per day (when burning fuel oil) during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) A continuous opacity monitor may be used to perform the visible emission notations provided the calibration and maintenance procedures for the monitor have been approved by the IDEM-OAQ or the HDEM. A trained employee shall record whether emissions are normal or abnormal (when burning fuel oil).

(f) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

D.4.9 Record Keeping Requirements

(a) In accordance with 326 IAC 7-4-1.1(c)(1)(B)(i) and in order to document compliance with Condition D.4.4, the Permittee shall maintain records of the following for each hour in which any boiler operates on fuel oil.

(1) Average sulfur content

(2) Fuel oil usage

(3) Boiler operating load

(b) To document compliance with Condition D.4.8, the Permittee shall maintain records of the visible emission notations (while burning fuel oil) of the boiler stack exhausts.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.4.10 Reporting Requirements

(a) In accordance with 326 IAC 7-2-1(c)(3) and 326 IAC 7-4-1.1(c)(1)(B)(ii), the Permittee shall submit a report to the department within thirty (30) days after the end of each calendar quarter. The report shall also contain the records required in Condition D.4.9 for Boilers 6, 7, 8, and 10, while burning fuel oil, including a calculation of the total sulfur dioxide emissions from all boilers for each hour.

(b) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the calendar quarter being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

D.4.11 General Provisions Relating to the NSPS for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b, Subpart Db] [326 IAC 12-1] [40 CFR 60, Subpart A]

Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for Package Boiler #1 as specified in 40 CFR 60.40b, Subpart Db in accordance with the schedule in 40 CFR 60.40b, Subpart Db.

D.4.12 NSPS for Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR 60.40b, Subpart Db] [326 IAC 12-1]

Pursuant to 40 CFR 60.40b, Subpart Db, the Permittee shall comply with the provisions of 40 CFR 60.40b, Subpart Db, which are incorporated by reference as 326 IAC 12-1, for Package Boiler #1 as specified as follows:

§ 60.40b Applicability and delegation of authority.

(a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 million Btu/hour).

(j) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators, §60.40).

§ 60.44b Standard for nitrogen oxides.

(a) Except as provided under paragraphs (k) and (l) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides (expressed as NO2) in excess of the following emission limits:

Fuel/Steam generating unit type	Nitrogen oxide emission limits ng/J(lb/million Btu) (expressed as NO2) Heat input
(1) Natural gas and distillate oil, except (4):	
(i) Low heat release rate	43 (0.10)

(h) For purposes of paragraph (i) of this section, the nitrogen oxide standards under this section apply at all times including periods of startup, shutdown, or malfunction.

(i) Except as provided under paragraph (j) of this section, compliance with the emission limits under this section is determined on a 30-day rolling average basis.

§ 60.46b Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.

(a) The particulate matter emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction. The nitrogen oxides emission standards under §60.44b apply at all times.

(c) Compliance with the nitrogen oxides emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.

(e) To determine compliance with the emission limits for nitrogen oxides required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring nitrogen oxides under §60.48(b).

(1) For the initial compliance test, nitrogen oxides from the steam generating unit are monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the nitrogen oxides emission standards under §60.44b. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.

§ 60.48b Emission monitoring for particulate matter and nitrogen oxides.

(b) Except as provided under paragraphs (g), (h), and (i) of this section, the owner or operator of an affected facility shall comply with either paragraphs (b)(1) or (b)(2) of this section.

(1) Install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere;

(c) The continuous monitoring systems required under paragraph (b) of this section shall be operated and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(d) The 1-hour average nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor required by paragraph (b) of this section and required under §60.13(h) shall be expressed in ng/J or lb/million Btu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(b). At least 2 data points must be used to calculate each 1-hour average.

(e) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

(2) For affected facilities combusting coal, oil, or natural gas, the span value for nitrogen oxides is determined as follows:

Fuel	Span values for nitrogen oxides (PPM)
Natural gas.....	500

(f) When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

§ 60.49b Reporting and recordkeeping requirements.

(a) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility,

(3) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired, and,

(b) The owner or operator of each affected facility subject to the sulfur dioxide, particulate matter, and/or nitrogen oxides emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility.

(d) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the nitrogen oxides standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date.

(2) The average hourly nitrogen oxides emission rates (expressed as NO2) (ng/J or lb/million Btu heat input) measured or predicted.

(3) The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or

predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.

(4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.

(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.

(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

(8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.

(9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.

(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.

(i) The owner or operator of any affected facility subject to the continuous monitoring requirements for nitrogen oxides under §60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.

(o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.

(v) The owner or operator of an affected facility may submit electronic quarterly reports for SO2 and/or NOX and/or opacity in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.

(w) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

D.4.13 One Time Deadlines Relating to NSPS 60.40b, Subpart Db

(a) Pursuant to §60.46b(e), the Permittee must conduct the initial performance test for Package Boiler #1 no later than 180 days after the initial start-up.

(b) Pursuant to §60.48b(e), the Permittee must install the NOx CEM prior to the performance test.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

D.4.14 General Provisions Relating to NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63.7565, Subpart DDDDD] [326 IAC 20-1] [40 CFR 63, Subpart A]

Pursuant to 40 CFR 63.7565, the Permittee shall comply with the provisions of 40 CFR 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for Package Boiler #1 as specified in Table 10 of 40 CFR 63, Subpart DDDDD in accordance with the schedule in 40 CFR 63, Subpart DDDDD.

D.4.15 NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters Requirements [40 CFR 63.7480, Subpart DDDDD]

Pursuant to 40 CFR 63, Subpart DDDDD, the Permittee shall comply with the provisions of 40 CFR 63, Subpart DDDDD, for Package Boiler #1 as specified as follows:

§ 63.7480 What is the purpose of this subpart?

This subpart establishes national emission limits and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits and work practice standards.

§ 63.7485 Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP as defined in §63.2 or §63.761 (40 CFR part 63, subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities), except as specified in §63.7491.

§ 63.7490 What is the affected source of this subpart?

(a) This subpart applies to new, reconstructed, or existing affected sources as described in paragraphs (a)(1) and (2) of this section.

(2) The affected source of this subpart is each new or reconstructed industrial, commercial, or institutional boiler or process heater located at a major source as defined in §63.7575.

(b) A boiler or process heater is new if you commence construction of the boiler or process heater after January 13, 2003, and you meet the applicability criteria at the time you commence construction.

§ 63.7495 When do I have to comply with this subpart?

(a) If you have a new or reconstructed boiler or process heater, you must comply with this subpart by November 12, 2004 or upon startup of your boiler or process heater, whichever is later.

(d) You must meet the notification requirements in §63.7545 according to the schedule in §63.7545 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limits and work practice standards in this subpart.

§ 63.7499 What are the subcategories of boilers and process heaters?

The subcategories of boilers and process heaters are large solid fuel, limited use solid fuel, small solid fuel, large liquid fuel, limited use liquid fuel, small liquid fuel, large gaseous fuel, limited use gaseous fuel, and small gaseous fuel. Each subcategory is defined in §63.7575.

§ 63.7500 What emission limits, work practice standards, and operating limits must I meet?

(a) You must meet the requirements in paragraphs (a)(1) and (2) of this section.

(1) You must meet each emission limit and work practice standard in Table 1 to this subpart that applies to your boiler or process heater, except as provided under §63.7507.

(b) As provided in §63.6(g), EPA may approve use of an alternative to the work practice standards in this section.

§ 63.7505 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limits (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).

(c) You can demonstrate compliance with any applicable emission limit using fuel analysis if the emission rate calculated according to §63.7530(d) is less than the applicable emission limit. Otherwise, you must demonstrate compliance using performance testing.

(d) If you demonstrate compliance with any applicable emission limit through performance testing, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).

(1) For each continuous monitoring system (CMS) required in this section, you must develop and submit to the EPA Administrator for approval a site-specific monitoring plan that addresses paragraphs (d)(1)(i) through (iii) of this section. You must submit this site-specific monitoring plan at least 60 days before your initial performance evaluation of your CMS.

(i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.*, on or downstream of the last control device);

(ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and

(iii) Performance evaluation procedures and acceptance criteria (*e.g.*, calibrations).

(2) In your site-specific monitoring plan, you must also address paragraphs (d)(2)(i) through (iii) of this section.

(i) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (c)(3), and (c)(4)(ii);

(ii) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c), (e)(1), and (e)(2)(i).

(3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan.

(4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.

(e) If you have an applicable emission limit or work practice standard, you must develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).

§ 63.7510 What are my initial compliance requirements and by what date must I conduct them?

(a) For affected sources that elect to demonstrate compliance with any of the emission limits of this subpart through performance testing, your initial compliance requirements include conducting performance tests according to §63.7520 and Table 5 to this subpart, conducting a fuel analysis for each type of fuel burned in your boiler or process heater according to §63.7521 and Table 6 to this subpart, establishing operating limits according to §63.7530 and Table 7 to this subpart, and conducting CMS performance evaluations according to §63.7525.

(c) For affected sources that have an applicable work practice standard, your initial compliance requirements depend on the subcategory and rated capacity of your boiler or process heater. If your boiler or process heater is in any of the limited use subcategories or has a heat input capacity less than 100 MMBtu per hour, your initial compliance demonstration is conducting a performance test for carbon monoxide according to Table 5 to this subpart. If your boiler or process heater is in any of the large subcategories and has a heat input capacity of 100 MMBtu per hour or greater, your initial compliance demonstration is conducting a performance evaluation of your continuous emission monitoring system for carbon monoxide according to §63.7525(a).

(g) If your new or reconstructed affected source commences construction or reconstruction after November 12, 2004, you must demonstrate initial compliance with the promulgated emission limits and work practice standards no later than 180 days after startup of the source.

§ 63.7525 What are my monitoring, installation, operation, and maintenance requirements?

(a) If you have an applicable work practice standard for carbon monoxide, and your boiler or process heater is in any of the large subcategories and has a heat input capacity of 100 MMBtu per hour or greater, you must install, operate, and maintain a continuous emission monitoring system (CEMS) for carbon monoxide according to the procedures in paragraphs (a)(1) through (6) of this section by the compliance date specified in §63.7495.

(1) Each CEMS must be installed, operated, and maintained according to Performance Specification (PS) 4A of 40 CFR part 60, appendix B, and according to the site-specific monitoring plan developed according to §63.7505(d).

(2) You must conduct a performance evaluation of each CEMS according to the requirements in §63.8 and according to PS 4A of 40 CFR part 60, appendix B.

(3) Each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(4) The CEMS data must be reduced as specified in §63.8(g)(2).

(5) You must calculate and record a 30-day rolling average emission rate on a daily basis. A new 30-day rolling average emission rate is calculated as the average of all of the hourly CO emission data for the preceding 30 operating days.

(6) For purposes of calculating data averages, you must not use data recorded during periods of monitoring malfunctions, associated repairs, out-of-control periods, required quality assurance or control activities, or when your boiler or process heater is operating at less than 50 percent of its rated capacity. You must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out of control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(c) If you have an operating limit that requires the use of a CMS, you must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the procedures in paragraphs (c)(1) through (5) of this section by the compliance date specified in §63.7495.

(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four successive cycles of operation to have a valid hour of data.

(2) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must conduct all monitoring in continuous operation at all times that the unit is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(3) For purposes of calculating data averages, you must not use data recorded during monitoring malfunctions, associated repairs, out of control periods, or required quality assurance or control activities. You must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(4) Determine the 3-hour block average of all recorded readings, except as provided in paragraph (c)(3) of this section.

(5) Record the results of each inspection, calibration, and validation check.

(d) If you have an operating limit that requires the use of a flow measurement device, you must meet the requirements in paragraphs (c) and (d)(1) through (4) of this section.

(1) Locate the flow sensor and other necessary equipment in a position that provides a representative flow.

(2) Use a flow sensor with a measurement sensitivity of 2 percent of the flow rate.

(3) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(4) Conduct a flow sensor calibration check at least semiannually.

(e) If you have an operating limit that requires the use of a pressure measurement device, you must meet the requirements in paragraphs (c) and (e)(1) through (6) of this section.

(1) Locate the pressure sensor(s) in a position that provides a representative measurement of the pressure.

(2) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.

(3) Use a gauge with a minimum tolerance of 1.27 centimeters of water or a transducer with a minimum tolerance of 1 percent of the pressure range.

(4) Check pressure tap pluggage daily.

(5) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.

(6) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

§ 63.7535 How do I monitor and collect data to demonstrate continuous compliance?

(a) You must monitor and collect data according to this section and the site-specific monitoring plan required by §63.7505(d).

(b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times that the affected source is operating.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, or required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system. Boilers and process heaters that have an applicable carbon monoxide work practice standard and are required to install and operate a CEMS, may not use data recorded during periods when the boiler or process heater is operating at less than 50 percent of its rated capacity.

§ 63.7540 How do I demonstrate continuous compliance with the emission limits and work practice standards?

(a) You must demonstrate continuous compliance with each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (10) of this section.

(10) If you have an applicable work practice standard for carbon monoxide, and you are required to install a CEMS according to §63.7525(a), then you must meet the requirements in paragraphs (a)(10)(i) through (iii) of this section.

(i) You must continuously monitor carbon monoxide according to §§63.7525(a) and 63.7535.

(ii) Maintain a carbon monoxide emission level below your applicable carbon monoxide work practice standard in Table 1 to this subpart at all times except during periods of startup, shutdown, malfunction, and when your boiler or process heater is operating at less than 50 percent of rated capacity.

(iii) Keep records of carbon monoxide levels according to §63.7555(b).

(b) You must report each instance in which you did not meet each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that apply to you. You must also report each instance during a startup, shutdown, or malfunction when you did not meet each applicable emission limit, operating limit, and work practice standard. These instances are deviations from the emission limits and work practice standards in this subpart. These deviations must be reported according to the requirements in §63.7550.

(c) During periods of startup, shutdown, and malfunction, you must operate in accordance with the SSMP as required in §63.7505(e).

(d) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the EPA Administrator's satisfaction that you were operating in accordance with your SSMP. The EPA Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

§ 63.7545 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply to you by the dates specified.

(c) As specified in §63.9(b)(4) and (b)(5), if you startup your new or reconstructed affected source on or after November 12, 2004, you must submit an Initial Notification not later than 15 days after the actual date of startup of the affected source.

§ 63.7550 What reports must I submit and when?

(a) You must submit each report in Table 9 to this subpart that applies to you.

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for your source in §63.7495.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.7495.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) The compliance report must contain the information required in paragraphs (c)(1) through (11) of this section.

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel and the total fuel usage amount with units of measure.

(5) A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during this test, if applicable.

(6) A signed statement indicating that you burned no new types of fuel. Or, if you did burn a new type of fuel, you must submit the calculation of chlorine input, using Equation 5 of §63.7530, that demonstrates that your source is still within its maximum chlorine input level established during the previous performance testing (for sources that demonstrate compliance through performance testing) or you must submit the calculation of HCl emission rate using Equation 9 of §63.7530 that demonstrates that your source is still meeting the emission limit for HCl emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel, you must submit the calculation of TSM input, using Equation 6 of §63.7530, that demonstrates that your source is still within its maximum TSM input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of TSM emission rate using Equation 10 of §63.7530 that demonstrates that your source is still meeting the emission limit for TSM emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel, you must submit the calculation of mercury input, using Equation 7 of §63.7530, that demonstrates that your source is still within its maximum mercury input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of mercury emission rate using Equation 11 of §63.7530 that demonstrates that your source is still meeting the emission limit for mercury emissions (for boilers or process heaters that demonstrate compliance through fuel analysis).

(7) If you wish to burn a new type of fuel and you can not demonstrate compliance with the maximum chlorine input operating limit using Equation 5 of §63.7530, the maximum TSM input operating limit using Equation 6 of §63.7530, or the maximum mercury input operating limit using Equation 7 of §63.7530, you must include in the compliance report a statement indicating the intent to conduct a new performance test within 60 days of starting to burn the new fuel.

(8) The hours of operation for each boiler and process heater that is subject to an emission limit for each calendar month within the semiannual reporting period. This requirement applies only to limited use boilers and process heaters.

(9) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in §63.10(d)(5)(i).

(10) If there are no deviations from any emission limits or operating limits in this subpart that apply to you, and there are no deviations from the requirements for work practice standards in this subpart, a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

(11) If there were no periods during which the CMSs, including CEMS, COMS, and CPMS, were out of control as specified in §63.8(c)(7), a statement that there were no periods during which the CMSs were out of control during the reporting period.

(e) For each deviation from an emission limitation and operating limit or work practice standard in this subpart occurring at an affected source where you are using a CMS to comply with that emission limit, operating limit, or work practice standard, you must include the information in paragraphs (c) (1) through (10) of this section and the information required in paragraphs (e) (1) through (12) of this section. This includes periods of startup, shutdown, and malfunction and any deviations from your site-specific monitoring plan as required in §63.7505(d).

(1) The date and time that each malfunction started and stopped and description of the nature of the deviation (*i.e.*, what you deviated from).

(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out of control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMSs downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.

(8) An identification of each parameter that was monitored at the affected source for which there was a deviation, including opacity, carbon monoxide, and operating parameters for wet scrubbers and other control devices.

(9) A brief description of the source for which there was a deviation.

(10) A brief description of each CMS for which there was a deviation.

(11) The date of the latest CMS certification or audit for the system for which there was a deviation.

(12) A description of any changes in CMSs, processes, or controls since the last reporting period for the source for which there was a deviation.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 9 to this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise

affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) If you operate a new gaseous fuel unit that is subject to the work practice standard specified in Table 1 to this subpart, and you intend to use a fuel other than natural gas or equivalent to fire the affected unit, you must submit a notification of alternative fuel use within 48 hours of the declaration of a period of natural gas curtailment or supply interruption, as defined in §63.7575. The notification must include the information specified in paragraphs (g)(1) through (5) of this section.

(1) Company name and address.

(2) Identification of the affected unit.

(3) Reason you are unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.

(4) Type of alternative fuel that you intend to use.

(5) Dates when the alternative fuel use is expected to begin and end.

§ 63.7555 What records must I keep?

(a) You must keep records according to paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, fuel analyses, or other compliance demonstrations, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each CEMS, CPMS, and COMS, you must keep records according to paragraphs (b)(1) through (5) of this section.

(1) Records described in §63.10(b)(2) (vi) through (xi).

(3) Previous (*i.e.,* superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Request for alternatives to relative accuracy test for CEMS as required in §63.8(f)(6)(i).

(5) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in Table 8 to this subpart including records of all monitoring data and calculated averages for applicable operating limits such as opacity, pressure drop, carbon monoxide, and pH to show continuous compliance with each emission limit, operating limit, and work practice standard that applies to you.

(d) For each boiler or process heater subject to an emission limit, you must also keep the records in paragraphs (d)(1) through (5) of this section.

(1) You must keep records of monthly fuel use by each boiler or process heater, including the type(s) of fuel and amount(s) used.

§ 63.7560 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.

§ 63.7565 What parts of the General Provisions apply to me?

Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7570 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities listed in paragraphs (b)(1) through (5) of this section are retained by the EPA Administrator and are not transferred to the State, local, or tribal agency, however, the U.S. EPA retains oversight of this subpart and can take enforcement actions, as appropriate.

(1) Approval of alternatives to the non-opacity emission limits and work practice standards in §63.7500(a) and (b) under §63.6(g).

(2) Approval of alternative opacity emission limits in §63.7500(a) under §63.6(h)(9).

(3) Approval of major change to test methods in Table 5 to this subpart under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(4) Approval of major change to monitoring under §63.8(f) and as defined in §63.90.

(5) Approval of major change to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§ 63.7575 What definitions apply to this subpart?

Terms used in this subpart are defined in the CAA, in §63.2 (the General Provisions), and in this section as follows:

Annual capacity factor means the ratio between the actual heat input to a boiler or process heater from the fuels burned during a calendar year, and the potential heat input to the boiler or process heater had it been operated for 8,760 hours during a year at the maximum steady state design heat input capacity.

Boiler means an enclosed device using controlled flame combustion and having the primary purpose of recovering thermal energy in the form of steam or hot water. Waste heat boilers are excluded from this definition.

Deviation. (1) Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(i) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emission limit, operating limit, or work practice standard;

(ii) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(iii) Fails to meet any emission limit, operating limit, or work practice standard in this subpart during startup, shutdown, or malfunction, regardless or whether or not such failure is permitted by this subpart.

(2) A deviation is not always a violation. The determination of whether a deviation constitutes a violation of the standard is up to the discretion of the entity responsible for enforcement of the standards.

Federally enforceable means all limitations and conditions that are enforceable by the EPA Administrator, including the requirements of 40 CFR parts 60 and 61, requirements within any applicable State implementation plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 40 CFR 51.24.

Fossil fuel means natural gas, petroleum, coal, and any form of solid, liquid, or gaseous fuel derived from such materials.

Fuel type means each category of fuels that share a common name or classification. Examples include, but are not limited to, bituminous coal, subbituminous coal, lignite, anthracite, biomass, construction/demolition material, salt water laden wood, creosote treated wood, tires, residual oil. Individual fuel types received from different suppliers are not considered new fuel types except for construction/demolition material.

Gaseous fuel includes, but is not limited to, natural gas, process gas, landfill gas, coal derived gas, refinery gas, and biogas. Blast furnace gas is exempted from this definition.

Heat input means heat derived from combustion of fuel in a boiler or process heater and does not include the heat input from preheated combustion air, recirculated flue gases, or exhaust gases from other sources such as gas turbines, internal combustion engines, kilns, etc.

Industrial boiler means a boiler used in manufacturing, processing, mining, and refining or any other industry to provide steam, hot water, and/or electricity.

Large gaseous fuel subcategory includes any watertube boiler or process heater that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment or gas supply emergencies, has a rated capacity of greater than 10 MMBtu per hour heat input, and has an annual capacity factor of greater than 10 percent.

Natural gas means:

(1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or

(2) Liquid petroleum gas, as defined by the American Society for Testing and Materials in ASTM D1835–03a, “Standard Specification for Liquid Petroleum Gases” (incorporated by reference, see §63.14(b)).

Period of natural gas curtailment or supply interruption means a period of time during which the supply of natural gas to an affected facility is halted for reasons beyond the control of the facility. An increase in the cost or unit price of natural gas does not constitute a period of natural gas curtailment or supply interruption.

Responsible official means responsible official as defined in 40 CFR 70.2.

Temporary boiler means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another. A temporary boiler that remains at a location for more than 180 consecutive days is no longer considered to be a temporary boiler. Any temporary boiler that replaces a temporary boiler at a location and is intended to perform the same or similar function will be included in calculating the consecutive time period.

Watertube boiler means a boiler in which water passes through the tubes and hot gases of combustion pass over the outside surfaces of the tubes.

Work practice standard means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the CAA.

Subpart DDDDD Applicable Tables

Table 1 to Subpart DDDDD of Part 63—Emission Limits and Work Practice Standards

As stated in § 63.7500, you must comply with the following applicable emission limits and work practice standards:

If your boiler or process heater is in this subcategory . . .	For the following pollutants . . .	You must meet the following emission limits and work practice standards
7. New or reconstructed large gaseous fuel.	Carbon Monoxide.....	400 ppm by volume on a dry basis corrected to 3 percent oxygen (30-day rolling average for units 100 MMBtu/hr or greater,

Table 8 to Subpart DDDDD of Part 63—Demonstrating Continuous Compliance

As stated in § 63.7540, you must show continuous compliance with the emission limitations for affected sources according to the following:

If you must meet the following operating limits or work practice standards . . .	You must demonstrate continuous compliance by . . .
7. Fuel Pollutant Content.....	b. Keeping monthly records of fuel use according to §63.7540(a).

Table 9 to Subpart DDDDD of Part 63—Reporting Requirements

As stated in § 63.7550, you must comply with the following requirements for reports:

You must submit a(n)	The report must contain . . .	You must submit the report . . .
1. Compliance report....	a. Information required in § 63.7550(c)(1) through (11); and	Semiannually according to the requirements in § 63.7550(b).
	b. If there are no deviations from any emission limitation(emission limit and operating limit)that applies to you and there are no deviations from the requirements for work practice standards in Table 8 to this subpart that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in § 63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and	
	c. If you have a deviation from any emission limitation (emission limit and operating limit) or work practice standard during the reporting period, the report must contain the information in § 63.7550(d).	

		If there were periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control, as specified in 63.8(c)(7), the report must contain the information in § 63.7550(e); and	
		d. If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in § 63.10(d)(5)(i)	
2. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard.	a. Actions taken for the event; and		i. By fax or telephone within 2 working days after starting actions inconsistent with the plan; and
	b. The information in § 63.10(d)(5)(ii)		ii. By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authority.

Table 10 to Subpart DDDDD of Part 63—Applicability of General Provisions to Subpart DDDDD

As stated in § 63.7565, you must comply with the applicable General Provisions according to the following:

Citation	Subject	Brief description	Applicable
§ 63.1.....	Applicability...	Initial Applicability Determination; Applicability After Standard Established; Permit Requirements; Extensions, Notifications.	Yes.
§ 63.2.....	Definitions.....	Definitions for Part 63 standards.	Yes.
§ 63.3.....	Units and Abbreviations...	Units and abbreviations for part 63 standards.	Yes.

§ 63.4.....	Prohibited Activities.....	Prohibited Activities; Compliance date; Circumvention, Severability.	Yes.
§ 63.5.....	Construction/ Reconstruction.	Applicability; applications; approvals.	Yes.
§ 63.6(a).....	Applicability...	GP apply unless compliance extension;	Yes.
§ 63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed sources.	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for 112(f).	Yes.
§ 63.6(b)(5)....	Notification...	Must notify if commenced construction or reconstruction after proposal.	Yes.
§ 63.6(e)(1)-(2)	Operation & Maintenance.	Operate to minimize emissions at all times; and Correct malfunctions as soon as practicable; and Operation and maintenance requirements independently enforceable; information Administrator will use to determine if operation and maintenance requirements were met.	Yes.
§ 63.6(e)(3)....	Startup,Shutdown, and Malfunction Plan (SSMP).	Requirement for SSM and startup, shutdown, malfunction plan; and content of SSMP.	Yes.
§ 63.6(f)(1)....	Compliance Except During SSM.	Comply with emission standards at all times except during SSM.	Yes.
§ 63.6(f)(2)-(3)	Methods for Determining Compliance.	Compliance based on performance test, operation and maintenance plans, records, inspection.	Yes.
§ 63.6(g)(1)-(3)	Alternative.... Standard	Procedures for getting an alternative standard.	Yes.
§ 63.6(i)(1)-(14)	Compliance..... Extension	Procedures and criteria for Administrator to grant compliance extension.	Yes.
§ 63.6(j).....	Presidential Compliance Exemption.	President may exempt source category from requirement to comply with rule.	Yes.
§ 63.8(a)(1)....	Applicability of Monitoring Requirements.	Subject to all monitoring requirements in standard.	Yes.

§ 63.8(a)(2)....	Performance Specifications	Performance Specifications in appendix B of part 60 apply.	Yes.
§ 63.8(b)(1) (i)-(ii)	Monitoring.....	Must conduct monitoring according to standard unless Administrator approves alternative.	Yes.
§ 63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems.	Specific requirements for installing monitoring systems; and must install on each effluent before it is combined and before it is released to the atmosphere unless Administrator approves otherwise; and if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup.	Yes.
§ 63.8(c)(1)....	Monitoring System Operation and Maintenance.	Maintain monitoring system in a manner consistent with good air pollution control practices.	Yes.
§ 63.8(c)(1)(i)	Routine and Predictable SSM.	Maintain and operate CMS according to § 63.6(e)(1).	Yes.
§ 63.8(c)(1)(ii)	SSM not in SSMP	Must keep necessary parts available for routine repairs of CMSs.	Yes.
§ 63.8(c)(1)(iii)	Compliance with Operation and Maintenance Requirements.	Must develop and implement an SSMP for CMSs.	Yes.
§ 63.8(c)(2)-(3)	Monitoring System Installation.	Must install to get representative emission and parameter measurements; and must verify operational status before or at performance test.	Yes.
§ 63.8(c)(7)-(8)	Continuous Monitoring Systems Requirements.	Out-of-control periods, including reporting.	Yes.
§ 63.8(d)....	Continuous Monitoring Systems Quality Control.	Requirements for continuous monitoring systems quality control, including calibration, etc.; and must keep quality control plan on record for the life of the affected source. Keep old versions for 5 years after revisions.	Yes.
§ 63.8(e)....	Continuous monitoring systems Performance Evaluation.	Notification, performance evaluation test plan, reports.	Yes.

§ 63.8(f)(1)-(5)	Alternative Monitoring Method.	Procedures for Administrator to approve alternative monitoring.	Yes.
§ 63.9(a)....	Notification Requirements.	Applicability and State Delegation.	Yes.
§ 63.9(b)(1)-(5)	Initial Notifications	Submit notification 120 days after effective date; and Notification of intent to construct/reconstruct; and Notification of commencement of construct/reconstruct; Notification of startup; and Contents of each.	Yes.
§ 63.9(c)....	Request for Compliance Extension.	Can request if cannot comply by date or if installed BACT/LAER.	Yes.
§ 63.9(g)....	Additional Notifications When Using Continuous Monitoring Systems.	Notification of performance evaluation; and notification using continuous opacity monitoring system data; and notification that exceeded criterion for relative accuracy.	Yes.
§ 63.9(h)(1)-(6)	Notification of Compliance Status.	Contents; and due 60 days after end of performance test or other compliance demonstration, and when to submit to Federal vs. State authority.	Yes.
§ 63.9(i)....	Adjustment of Submittal Deadlines.	Procedures for Administrator to approve change in when notifications must be submitted.	Yes.
§ 63.9(j)....	Change in Previous Information.	Must submit within 15 days after the change.	Yes.
§ 63.10(a)....	Recordkeeping/ Reporting	Applies to all, unless compliance extension; and when to submit to Federal vs. State authority; and procedures for owners of more than 1 source.	Yes.
§ 63.10(b)(1)	Recordkeeping/ Reporting	General Requirements; and keep all records readily available and keep for 5 years.	Yes.
§ 63.10(b)(2) (i)-(v)	Records related to Startup, Shutdown, and Malfunction.	Occurrence of each of operation (process, equipment); and occurrence of each malfunction of air pollution equipment; and maintenance of air pollution control equipment; and actions during startup, shutdown, and malfunction.	Yes.

§ 63.10(b)(2) (vi) and (x-xi)	Continuous monitoring systems Records.	Malfunctions, inoperative, out-of-control; and calibration checks; and adjustments, maintenance.	Yes.
§ 63.10(b)(2)... (vii)-(ix)	Records.....	Measurements to demonstrate compliance with emission limitations; and performance test, performance evaluation, and visible emission observation results; and measurements to determine conditions of performance tests and performance evaluations.	Yes.
§ 63.10(b)(2)(xii)	Records...	Records when under waiver.	Yes.
§ 63.10(b)(2)(xiv)	Records...	All documentation supporting Initial Notification and Notification of Compliance Status.	Yes.
§ 63.10(b)(3)	Records...	Applicability Determinations.	Yes.
§ 63.10(c)(1), (5)-(8),(10)-(15)	Records...	Additional Records for continuous monitoring systems.	Yes.
§ 63.10(d)(1)...	General Reporting Requirements.	Requirement to report.....	Yes.
§ 63.10(d)(2)...	Report of Performance Test Results.	When to submit to Federal or State authority.	Yes.
§ 63.10(d)(4)...	Progress Reports	Must submit progress reports on schedule if under compliance extension.	Yes.
§ 63.10(d)(5)...	Startup, Shutdown, and Malfunction Reports.	Contents and submission...	Yes.
§ 63.10(e)(1)(2)	Additional continuous monitoring systems Reports.	Must report results for each CEM on a unit; and written copy of performance evaluation; and 3 copies of continuous opacity monitoring system performance evaluation.	Yes.
§ 63.10(f)...	Waiver for Recordkeeping/ Reporting.	Procedures for Administrator to waive.	Yes.
§ 63.12....	Delegation	State authority to enforce standards.	Yes.
§ 63.13....	Addresses	Addresses where reports, notifications, and requests are sent.	Yes.

§ 63.14....	Incorporation by Reference	Test methods incorporated by reference.	Yes.
§ 63.15....	Availability of Information.	Public and confidential Information.	Yes.

D.4.16 One Time Deadlines Relating to NESHAP 63.7480, Subpart DDDDD

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Compliance with the Subpart	40 CFR 63.7495(a)	Package Boiler #1	Upon startup
Develop and submit to the EPA for approval a site-specific monitoring plan.	40 CFR 63.7505(d)(1)	Package Boiler #1	at least 60 days before the initial performance evaluation of the CMS
Demonstrate initial compliance with the emission limits and work practice standards	40 CFR 63.7510(g)	Package Boiler #1	no later than 180 days after startup
Submit all of the notifications in §§63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply by the dates specified.	40 CFR 63.7545(a)	Package Boiler #1	Dates specified in the above Table 10 to Subpart DDDDD of Part 63, applicable General Provisions.
Submit Initial Notification	40 CFR 63.7545(c)	Package Boiler #1	not later than 15 days after the actual startup

SECTION D.5 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: **V. Refinery Area**

(a) Corn Syrup Solids Manufacturing System #2 (Unit ID 18-03-R), installed July 1992. Corn syrup solids are fed through a cooling tunnel, milled, screened, and dropped to a receiver for packing. Particulate emissions are controlled by a jet pulse dust collector (CE18-03-R) that exhausts to stack S18-03-R.

(b) Corn Syrup Spray Dryer #4 (Unit ID 100-03-R), installed April 1992. Corn syrup is fed to a dryer. The solids are sent through cyclones to a packing area. Particulate emissions are controlled by a wet scrubber (CE100-03-R) that exhausts to stack S100-03-R.

(c) Corn Syrup Spray Dryer/Cooler System #3 (Unit ID 100-01-R), installed July 1987. Corn syrup is fed to a dryer. The solids are sent through cyclones to a packing area. Particulate emissions are controlled by a wet venturi scrubber (CE100-01-R) that exhausts through stack S100-01-R.

(d) Activated Carbon Regeneration Furnace #2 (Unit ID 104-01-R), installed July 1995. Spent carbon is regenerated in this natural gas-fired furnace. Emissions are controlled by a venturi scrubber and an impingement furnace scrubber (CE104-01-R) that exhaust through stack S104-01-R.

(e) Soda Ash Tank (Unit ID 104-02-R), installed July 1995. Particulate emissions from loading this tank are controlled by a venturi scrubber (CE104-02-R) that exhausts to stack S104-02-R.

(f) Filter Aid Hopper (Unit ID 104-03-R), installed July 1995. This hopper is equipped with a jet pulse baghouse (CE104-03-R) that exhausts to stack S104-03-R.

(g) Sodium Bisulfite Bag Dump (Unit ID 104-05-R), installed July 1995. This unit is controlled by a jet pulse baghouse (CE104-05-R) that exhausts to stack S104-05-R.

(h) Diatomaceous Earth Unloading (Unit ID 104-08-R), installed November 1998. Diatomaceous earth (filter aid) is unloaded from railcar to Silo. Particulate emissions are controlled by a Bin Vent Filter (DC2312) that exhausts to stack S104-08-R.

(i) Citric Acid Dump Station (Unit ID 104-09-R), installed November 1998. Citric Acid is added during the production of corn syrup. Particulate emissions are controlled by a dust collector (CE104-09-R) that exhausts to stack S104-09-R.

(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 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-10.1(d)]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 Emission Requirements), subsection (d), emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following:

	Unit ID	PM10 Limit	PM10 Limit
(a)	Corn Syrup Solids Mfg System #2 (18-03-R)	0.01	0.30
(b)	Corn Syrup Spray Dryer #4 (100-03-R)	0.01	4.2
(c)	Corn Syrup Spray Dryer/Cooler System #3 (100-01-R)	0.015	4.96
(d)	Activated Carbon Regeneration Furnace #2 (104-01-R)	0.015	0.728

(e)	Soda Ash Tank (104-02-R)	0.02	0.154
(f)	Filter Aid Hopper (104-03-R)	0.02	0.044
(g)	Sodium Bisulfite Bag Dump (104-05-R)	0.02	0.080

D.5.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-2(h)]

Pursuant to CP 089-1230-00203, issued November 1998, and 326 IAC 6-1-2 (Nonattainment Area Particulate Limitations), subsection (h), emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following:

	Unit ID	PM10 Limit	PM10 Limit
(h)	Diatomaceous Earth Unloading Silo (104-08-R)	0.01	0.064
(i)	Citric Acid Dump Station (104-09-R)	0.01	0.026

D.5.3 VOC Emissions [326 IAC 2-3] [326 IAC 8-1-6] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 2-3 (Emission Offset) and/or 326 IAC 8-1-6 (New facilities, general reduction requirements (BACT)). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 2-3 and 326 IAC 8-1-6. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 2-3 or 326 IAC 8-1-6 and a schedule for achieving compliance with such requirements.

D.5.4 VOC Emissions [326 IAC 8-7] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 8-7. On February 27, 1995, the source submitted to IDEM, OAQ a Reasonably Achievable Control Technology (RACT) plan pursuant to 326 IAC 8-7-2. A revised RACT plan was requested and submitted by the source on August 22, 2003. The IDEM, OAQ is currently reviewing the RACT plan submitted. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 8-7 and a schedule for achieving compliance with such requirements.

D.5.5 CO Emissions [326 IAC 2-2] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 2-2 (PSD). The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 2-2 (PSD) and a schedule for achieving compliance with such requirements.

D.5.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each Refinery Area facility control device.

Compliance Determination Requirements

D.5.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 36 months of the issuance of this permit, in order to demonstrate compliance with Condition D.5.1, the Permittee shall perform PM-10 testing on the following units utilizing methods as approved by the Commissioner.

(a) Corn Syrup Spray Dryer #4
(b) Corn Syrup Spray Dryer/Cooler #3

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C-Performance Testing.

D.5.8 Particulate Matter less than 10 microns in diameter (PM10)

In order to comply with D.5.1 and D.5.2, the control devices for PM10 control shall be in operation and control emissions from each facility at all times that the facility is in operation.

Compliance Monitoring Requirements

D.5.9 Visible Emissions Notations

(a) Visible emission notations of each Refinery Area facility stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.5.10 Parametric Monitoring (Dust Collectors)

The Permittee shall record the total static pressure drop across the control device used in conjunction with each Refinery Area facility as listed below, at least once per day*,* when the associated facility is in operation. When for any one reading, the pressure drop across the baghouse or dust collector is outside any of the following ranges or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above-mentioned range is not a deviation from this permit.

Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM-OAQ and HDEM and shall be calibrated at least once every six (6) months or in accordance with the manufacturer's specifications provided those specifications are available on site with the Preventive Maintenance Plan.

D.5.11 Parametric Monitoring (Scrubbers)

The Permittee shall record the recirculation liquid flow rate and total static pressure drop across each scrubber used in the Refinery Area, at least once per day when the associated system is in operation. When for any one reading, the pressure drop across a scrubber is outside the following ranges or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

	Unit ID	Control Equipment	Pressure Drop Range (inches of water)
(a)	Corn Syrup Solids Mfg System #2 (18-03-R)	Dust Collector	5 - 15
(b)	Corn Syrup Spray Dryer #4 (100-03-R)	Wet Scrubber	1.0 – 8.0
(c)	Corn Syrup Spray Dryer/Cooler System #3 (100-01-R)	Wet Scrubber	0.1 - 6
(d)	Activated Carbon Regeneration Furnace #2 (104-01-R)	Wet Scrubber	TBD
(e)	Soda Ash Tank (104-02-R)	Wet Scrubber	0.25 – 0.5
(f)	Filter Aid Hopper (104-03-R)	Dust Collector	0.1 - 6
(g)	Sodium Bisulfite Bag Dump (104-05-R)	Dust Collector	0.1 - 6
(h)	Diatomaceous Earth Unloading Silo (104-08-R)	Bin Vent Filter	0.1 - 6
(i)	Citric Acid Dump Station (Unit ID 104-09-R).	Dust Collector	0.1 - 6

D.5.12 Baghouse (Dust Collector) Inspections

An inspection shall be performed each calendar quarter of all bags that control particulate emissions. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.5.13 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with

Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, or dust traces, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

D.5.14 Scrubber Inspections

An inspection shall be performed each calendar quarter of all scrubbers used as control devices. Defective scrubber parts shall be replaced. A record shall be kept of the results of the inspection and any corrective actions taken.

D.5.15 Scrubber Failure Detection

In the event that a scrubber's failure has been observed:

(a) The affected unit will be shut down immediately until the failed unit has been replaced.

(b) Based on the confirmed findings of an inspection, any additional corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.

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

D.5.16 Record Keeping Requirements

(a) To document compliance with Condition D.5.9, the Permittee shall maintain records of the visible emission notations of the Refinery Area Facility stack exhausts.

(b) To document compliance with Conditions D.5.10 and D.5.11, the Permittee shall maintain a daily record of the total static pressure drop readings and the scrubber recirculation liquid flow rates.

(c) To document compliance with Condition D.5.12 and D.5.14, the Permittee shall maintain records of the results of the inspections.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.6 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: VI. Starch Production Area

(a) Batch Scale Hopper #1 (Unit ID 34-01-S), installed January 1991. Starch is pneumatically conveyed to a hopper. Particulate emissions are controlled by a bag filter dust collector (CE34-01-S) that exhausts to stack S34-01-S.

(b) Dextrin Starch Reactor #1 (Unit ID 34-02-S), installed January 1991. Dried cornstarch is fed to a reactor heated by steam from the plant boilers. Particulate emissions are controlled by a bag filter dust collector (CE34-02-S) that exhausts to stack S34-02-S.

(c) Dextrin Starch Cooler #1 (Unit ID 34-03-S), installed January 1991. Roasted cornstarch is fed to a cooler and transferred to a hopper for storage. Particulate emissions are controlled by a bag filter dust collector (CE34-03-S) that exhausts to stack S34-03-S.

(d) Surge Hopper #1 (Unit ID 34-05-S), installed January 1991. Starch is pneumatically conveyed to a hopper. Particulate emissions are controlled by a bag filter dust collector (CE34-05-S) that exhausts to stack S34-05-S.

(e) Dextrin Feed Hoppers #1 and #2 (System #1) (Unit IDs 34-06-S and 34-07-S), installed April 1993. Starch is gravity conveyed to these hoppers. Particulate emissions are controlled by bag filter dust collectors (CE34-06-S and CE34-07-S) that exhaust to stacks S34-06-S and S34-07-S.

(f) Batch Scale Hopper #2 (Unit ID 34B-13-S), installed October 1993. Starch is pneumatically conveyed to a hopper. Particulate emissions are controlled by a bag filter dust collector (CE34B-13-S) that exhausts to stack S34B-13-S.

(g) Dextrin Starch Reactor #2 (Unit ID 34B-04-S), installed October 1993. Dried cornstarch is fed to a reactor heated by steam from the plant boilers. Particulate emissions are controlled by a bag filter dust collector (CE34B-04-S) that exhausts to stack S34B-04-S.

(h) Dextrin Starch Cooler #2 (Unit ID 34B-01-S), installed October 1993. Roasted cornstarch is fed to a cooler and transferred to a hopper for storage. Particulate emissions are controlled by a bag filter dust collector (CE34B-01-S) that exhausts to stack S34B-01-S.

(i) Surge Hopper #2 (Unit ID 34B-03-S), installed October 1993. Starch is pneumatically conveyed to a hopper. Particulate emissions are controlled by a bag filter dust collector (CE34B-03-S) that exhausts to stack S34B-03-S.

(j) Dextrin Feed Hoppers #3 and #4 (System #2) (Unit IDs 34B-05-S and 34B-06-S), installed October 1993. Starch is gravity conveyed to these hoppers. Particulate emissions are controlled by dust collectors (CE34B-05-S and CE34B-06-S) that exhaust to stacks S34B-05-S and S34B-06-S.

(k) Dextrin Bulk Loading Equipment (Unit ID 48-09-S), installed before 1977. Starch is pneumatically conveyed to this hopper. Particulate emissions are controlled by a bag filter dust collector (CE48-09-S) that exhausts to stack S48-09-S.

(l) Starch Ring Dryer #2 (Unit ID 59-03-S), installed November 1993. Starch is fed to this natural gas-fired ring dryer. Dried starch is collected with six cyclones in series. Particulate emissions are controlled by a wet scrubber (CE59-03-S) that exhausts to stack S59-03-S.

(m) Starch Milling Systems #1 and #2 (Unit IDs 59-01-S and 59-02-S), installed July 1976. Dried cornstarch is milled and transferred to storage. Particulate emissions are controlled by bag filter dust collectors (CE59-01-S and CE59-02-S) that exhaust to stacks S59-01-S and S59-02-S.

(n) Starch Ring Dryer #3 (Unit ID 125-01-S), installed May 1980. Corn starch is fed to this natural gas-fired ring dryer. Dried starch is collected with six cyclones in series. Particulate emissions are controlled by a wet scrubber (CE125-01-S) that exhausts to stack S125-01-S.

(o) Special Starch Process with Starch Ring Dryer #4 (Unit ID 128-01-S), installed December 1993. Corn starch is fed to this natural gas-fired ring dryer. Dried starch is collected with six cyclones in series. Particulate emissions are controlled by wet scrubber (CE128-01-S) that exhausts to stack S128-01-S.

(p) Reactors #1 through 8 (Unit IDs 128-06-S through 128-13-S) installed November 1988 (1-4) and December 1991 (5-8). Corn starch and propylene oxide are reacted through Reactors 2, 3, 4, and 7 only. When propylene oxide is used in the starch reaction, VOC emissions are controlled by a thermal oxidizer that exhausts to stack S128-14-S.

(q) Sodium Sulfate Storage Bin (Unit ID 128-25-S), installed October 2000. Particulate emissions are controlled by a bin vent dust collector (FA1900) that exhausts to stack S128-25-S.

(r) Sodium Sulfate Weigh Bin (Unit ID 128-26-S), installed October 2000. Particulate emissions are controlled by a bin vent dust collector (FA1950) that exhausts to stack S128-26-S.

(s) Cornstarch Storage Bins #20 through #36 (Unit IDs 120-01-S through 120-17-S), installed July 1990. Cornstarch is pneumatically conveyed to these storage bins. Particulate emissions are controlled by bin vent dust collectors that exhaust to stacks S120-01-S through S120-17-S.

(t) Waxy Cornstarch Bulk Storage Bins #95 through #98 (Unit IDs 126-01-S through 126-04-S), replaced in January 1996. Waxy corn starch is conveyed to these bins. Particulate emissions are controlled by dust collectors (CE126-01-S through CE126-04-S) that exhaust to stacks S126-01-S through S126-04-S.

(u) Cornstarch Blending Systems #1 through #4 (Unit IDs 130-01-S through 130-04-S), installed April 1988. Corn starch is blended and moved to the warehouse for packing. Particulate emissions are controlled by bag filter dust collectors (CE130-01-S through CE130-04-S) that exhaust to stacks S130-01-S through S130-04-S.

(v) Dextrin Blender (Unit ID 130-05-S), installed October 1993. Corn starch is blended and moved to the warehouse for packing. Particulate emissions are controlled by a dust collector (CE130-05-S) that exhausts to stack S130-05-S.

(w) One (1) 28,000 gallon horizontal propylene oxide tank (Unit ID 93-18-S), installed 1988, with 95% efficient vapor recovery (liquid nitrogen condenser). This tank also provides propylene oxide for other starch processes.

(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 Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-10.1(d)

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 Emission Requirements), subsection (d), emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

	Unit ID	PM10 Limit	PM10 Limit
(a)	Batch Scale Hopper #1 (34-01-S)	0.01	0.04
(b)	Dextrin Starch Reactor #1 (34-02-S)	0.01	0.180
(c)	Dextrin Starch Cooler #1 (34-03-S)	0.01	0.042
(d)	Surge Hopper #1 (34-05-S)	0.01	0.11
(e)	Dextrin Feed Hoppers #1 and #2 (34-06-S & 34-07-S)	0.01 each	0.030 each
(f)	Batch Scale Hopper #2 (34B-13-S)	0.01	0.067
(g)	Dextrin Starch Reactor #2 (34B-04-S)	0.01	0.179
(h)	Dextrin Starch Cooler #2 (34B-01-S)	0.01	0.042
(i)	Surge Hopper #2 (34B-03-S)	0.01	0.114
(j)	Dextrin Feed Hoppers #3 and #4 (34B-05-S & 34B-06-S)	0.01 each	0.030 each
(k)	Dextrin Bulk Loading Equipment (48-09-S)	0.01	0.26
(l)	Starch Ring Dryer #2 (59-03-S)	0.006	3.50
(m)	Starch Milling Systems #1 and #2 (59-01-S and 59-02-S)	0.01 each	0.43 each
(n)	Starch Ring Dryer #3 (125-01-S)	0.006	3.50
(o)	Special Starch Process / Starch Ring Dryer #4 (128-01-S)	0.01	3.5
(s)	Cornstarch Storage Bins 20-36 (120-01-S to 120-17-S)	0.01 each	0.56 each
(t)	Waxy Cornstarch Storage Bins 95-98 (126-01-S to 126-04-S)	0.01 each	0.16 each
(u)	Cornstarch Blending Systems 1-4 (130-01-S to 130-04-S)	0.01	0.42
(v)	Dextrin Blender (130-05-S)	0.01	0.248

D.6.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-2(h)

Pursuant to CP 089-01531-00203, issued November 1999, and 326 IAC 6-1-2 (Non-attainment Area Particulate Limitations), subsection (h), emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

	Unit ID	PM10 Limit (gr/dscf)	PM10 Limit (lbs/hr)
(q)	Sodium Sulfate Storage Bin (128-25-S)	0.005	0.03
(r)	Sodium Sulfate Weigh Bin (128-26-S)	0.005	0.03

D.6.3 VOC Emissions [326 IAC 2-3] [326 IAC 8-1-6] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 2-3 (Emission Offset) and/or 326 IAC 8-1-6 (New facilities, general reduction requirements (BACT)). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 2-3 and 326 IAC 8-1-6. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 2-3 or 326 IAC 8-1-6 and a schedule for achieving compliance with such requirements.

D.6.4 VOC Emissions [326 IAC 8-7] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

The IDEM, OAQ has information that indicates that some emission units in this section are subject to the requirements of 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties). Therefore, the Permit Shield provided by Condition B.12 of this permit does not apply to those emission units with regards to 326 IAC 8-7. On February 27, 1995, the source submitted to IDEM, OAQ a Reasonably Achievable Control Technology (RACT) plan pursuant to 326 IAC 8-7-2. A revised RACT plan was requested and submitted by the

source on August 22, 2003. The IDEM, OAQ is currently reviewing the RACT plan submitted. The IDEM, OAQ will promptly reopen this permit using the provisions of 326 IAC 2-7-9 (Permit Reopening) to include detailed requirements necessary to comply with 326 IAC 8-7 and a schedule for achieving compliance with such requirements.

D.6.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each Starch Production Area facility control device.

Compliance Determination Requirements

D.6.6 Testing Requirements (PM10) [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

Within 36 months of the issuance of this permit, in order to demonstrate compliance with Condition D.6.1, the Permittee shall perform PM-10 testing on the following units utilizing methods as approved by the Commissioner.

(1) Starch Ring Dryer #2
(2) Starch Ring Dryer #3
(3) Special Starch Process w/ Starch Ring Dryer #4

These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Testing shall be conducted in accordance with Section C- Performance Testing.

D.6.7 Volatile Organic Compounds (VOC) [326 IAC 2-1.1-5] [326 IAC 8-7-9] [326 IAC 8-7-10]

The thermal oxidizer for VOC control for Reactors 2, 3, 4, and 7 shall be installed, calibrated, maintained, and operated, at a minimum, according to the manufacturer's specifications and recommendations.

D.6.8 Particulate Matter less than 10 microns in diameter (PM10)

In order to comply with D.6.1 and D.6.2, the control devices for PM10 control shall be in operation and control emissions from each facility at all times that the facility is in operation.

Compliance Monitoring Requirements

D.6.9 Visible Emissions Notations

(a) Visible emission notations of each Starch Production Area facility stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.6.10 Parametric Monitoring (Dust Collectors)

The Permittee shall record the total static pressure drop across the control device used in conjunction with each Starch Production Area facility as listed below, at least once per day when the associated facility is in operation. When for any one reading, the pressure drop across the baghouse or dust collector is outside any of the following ranges or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM-OAQ and HDEM and shall be calibrated at least once every six (6) months or in accordance with the manufacturer's specifications provided those specifications are available on site with the Preventive Maintenance Plan.

	Unit ID	Control Equipment	Pressure Drop Range
(a)	Batch Scale Hopper #1 (34-01-S)	Dust Collector	0.1 - 6
(b)	Dextrin Starch Reactor #1 (34-02-S)	Dust Collector	0.1 - 6
(c)	Dextrin Starch Cooler #1 (34-03-S)	Dust Collector	0.1 - 6
(d)	Surge Hopper #1 (34-05-S)	Dust Collector	0.1 - 6
(e)	Dextrin Feed Hoppers #1 and #2 (34-06-S & 34-07-S)	Dust Collectors	0.1 – 6 each
(f)	Batch Scale Hopper #2 (34B-13-S)	Dust Collector	0.1 - 6
(g)	Dextrin Starch Reactor #2 (34B-04-S)	Dust Collector	0.1 - 6
(h)	Dextrin Starch Cooler #2 (34B-01-S)	Dust Collector	0.1 - 6
(i)	Surge Hopper #2 (34B-03-S),	Dust Collector	0.1 - 6
(j)	Dextrin Feed Hoppers #3 and #4 (34B-05-S & 34B-06-S)	Dust Collector	0.1 – 6 each
(k)	Dextrin Bulk Loading Equipment (48-09-S)	Dust Collector	0.1 - 6
(l)	Starch Ring Dryer #2 (59-03-S)	Wet Scrubber	10 - 20
(m)	Starch Milling Systems #1 and #2 (59-01-S and 59-02-S)	Dust Collectors	0.1 - 6 each
(n)	Starch Ring Dryer #3 (125-01-S)	Wet Scrubber	5 - 17
(o)	Special Starch Process / Starch Ring Dryer #4 (128-01-S)	Wet Scrubber	0.1 - 10
(q)	Sodium Sulfate Storage Bin (128-25-S)	Dust Collector	0.1 - 6
(r)	Sodium Sulfate Weigh Bin (128-26-S)	Dust Collector	0.1 - 6
(s)	Cornstarch Storage Bins 20-36 (120-01-S to 120-17-S)	Dust Collectors	0.1 - 6 each
(t)	Waxy Cornstarch Storage Bins 95-98 (126-01-S to 126-04-S)	Dust Collectors	0.1 - 6 each
(u)	Cornstarch Blending Systems 1-4 (130-01-S to130-04-S)	Dust Collectors	0.1 - 6 each
(v)	Dextrin Blender (130-05-S)	Dust Collector	0.1 - 6

D.6.11 Parametric Monitoring (Thermal Oxidizer) [326 IAC 2-1.1-5] [326 IAC 8-7-9] [326 IAC 8-7-10]

The thermal oxidizer for VOC control shall be in operation when propylene oxide is being added to special starch Reactors 2, 3, 4, and 7. The thermal oxidizer shall maintain a minimum operating temperature of 1300 °F and a maximum flow rate of 1000 cubic feet per minute (acfm).

(a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizer for measuring operating temperature. The flow of propylene oxide shall be automatically interrupted when that temperature falls below 1300 °F or the temperature established during the most recent compliant stack test.

(b) 100% of the vapors, when using propylene oxide in starch Reactors 2, 3, 4, and 7, shall be captured and shall pass through the Thermal Oxidizer.

(c) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the reading is outside the above-mentioned range for any one reading. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.6.12 Baghouse (Dust Collector) Inspections

An inspection shall be performed each calendar quarter of all bags that control particulate emissions. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.6.13 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, or dust traces, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.6.14 Record Keeping Requirements

(b) To document compliance with Condition D.6.9, the Permittee shall maintain records of visible emission notations of the Starch Production Area facility stack exhausts.

(b) To document compliance with Condition D.6.10, the Permittee shall maintain daily records of the total static pressure drop readings.

(c) To document compliance with Condition D.6.11, the Permittee shall maintain records of the thermal oxidizer temperature once per day when operating.

(d) To document compliance with Condition D.6.12, the Permittee shall maintain records of the results of the inspections.

(e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.7 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]: VII. Starch Warehouse Area

(a) Channel 2 Receiver (Unit ID 93-32-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-32-W.

(b) Channel 3 Receiver (Unit ID 93-33-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-33-W.

(c) Channel 4 Receiver (Unit ID 93-34-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-34-W.

(d) Channel 6 Receiver (Unit ID 93-35-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-35-W.

(e) Channel 4/6 Packing (Unit ID 93-37-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-37-W.

(f) Channel 2/3 Packing (Unit ID 93-36-W), installed September 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-36-W.

(g) Central Vacuum System (Unit ID 93-38-W), installed October 2000. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-38-W.

(h) Dried Corn Syrup Conveying System (Unit ID 93-04-W), installed July 1976. Particulate emissions are controlled by a baghouse (CE93-04-W) that exhausts to stack S93-04-W.

(i) Corn Syrup Solids Conveying System (Unit ID 93-05-W), installed July 1976. Particulate emissions are controlled by a baghouse (CE93-05-W) that exhausts to stack S93-05-W.

(j) Frodex Semi-bulk Packing System (Unit ID 93-08-W), installed September 1989. Particulate emissions are controlled by a baghouse (CE93-08-W) that exhausts to stack S93-08-W.

(k) Cornstarch Bag Dumping Stations #1 and #2 (Unit IDs 93-09-W and 93-10-W), installed April 1988. Particulate emissions are controlled by bag filter dust collectors (CE93-09-W and CE93-10-W) that exhaust to stacks S93-09-W and S93-10-W.

(l) Starch Bulk Loading (Unit ID 93-14-W), installed April 1995. Particulate emissions are controlled by a baghouse (CE93-14-W) that exhausts to stack S93-14-W.

(m) Starch Bulk Loading Vacuum Cleanup System (Unit ID 93-15-W), installed February 1994. Cleanup for cornstarch spills. Particulate emissions are controlled by bag filter dust collector (CE93-15-W) that exhausts to stack S93-15-W.

(n) Starch Mixing and Bulk Bagging Systems #1 and #2 (Unit IDs 93-16-W and 93-17-W), installed August 1995. Particulate emissions are controlled by baghouses (CE93-16-W and CE93-17-W) that exhaust to stacks S93-16-W and S93-17-W.

(o) P.G. Starch Receiver (Unit ID 93-18-W), installed September 1999. Particulate emissions are controlled by dust collector (CE93-18-W) that exhausts to stack S93-18-W.

(p) P.G. Starch Packing (Unit ID 93-39-W), installed January 2000. Particulate emissions are controlled by a dust collector (CE93-39-W) that exhausts to stack S93-39-W.

(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 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-2(h)]

Pursuant to Minor Source Modification 089-12593-00203, issued September 2000, and 326 IAC 6-1-2 (Non-attainment Area Particulate Limitations), subsection (h), emissions of particulate matter less than ten (10) microns in diameter (PM10) from the following units shall be limited to the following:

	Unit ID	PM10 Limit (gr/dscf)	PM10 Limit (lbs/hr)
(a)	Channel 2 Receiver (93-32-W)	0.005	0.10
(b)	Channel 3 Receiver (93-33-W)	0.005	0.10
(c)	Channel 4 Receiver (93-34-W)	0.005	0.10
(d)	Channel 6 Receiver (Dextrin) (93-35-W)	0.005	0.10
(e)	Channel 4/6 Packing (Dextrin)(93-37-W)	0.005	0.51
(f)	Channel 2/3 Packing (93-36-W)	0.005	0.51
(g)	Central Vacuum System (93-38-W)	0.005	0.02
(o)	P.G. Starch Receiver (93-18-W)	0.01	0.343
(p)	P.G. Starch Packing (Unit ID 93-39-W)	0.01	0.13

D.7.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6-1-10.1(d)]

Pursuant to 326 IAC 6-1-10.1 (Lake County PM10 Emission Requirements), subsection (d), emissions of particulate matter less than ten microns in diameter (PM10) from the following units shall be limited to the following:

	Unit ID	PM10 Limit (gr/dscf)	PM10 Limit (lbs/hr)
(h)	Dried Corn Syrup (Frodex) Conveying System (93-04-W)	0.01	0.069
(i)	Corn Syrup Solids Conveying System (93-05-W)	0.01	0.066
(j)	Frodex Semi-bulk Packing System (93-08-W)	0.01	0.083
(k)	Cornstarch Bag Dump Stations 1 & 2 (93-09-W and 93-10-W)	0.01 each	0.10 each
(l)	Starch Bulk Loading (93-14-W)	0.01	0.273
(m)	Starch Bulk Loading Vacuum Cleanup System (93-15-W)	0.01	0.021
(n)	Starch Mixing and Bulk Bagging System #1 (93-16-W)	0.01	0.130
(n)	Starch Mixing and Bulk Bagging System #2 (93-17-W)	0.01	0.264

D.7.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each Starch Warehouse Area facility control device.

Compliance Determination Requirements

D.7.4 Particulate Matter less than 10 microns in diameter (PM10)

In order to comply with D.7.1 and D.7.2, the control devices for PM10 control shall be in operation and control emissions from each facility at all times that the facility is in operation.

Compliance Monitoring Requirements

D.7.5 Visible Emissions Notations

(a) Visible emission notations of each Starch Warehouse Area facility stack exhaust shall be performed once per day during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

D.7.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across the control device used in conjunction with each Starch Warehouse Area facility as listed below, at least once per day when the associated facility is in operation. When for any one reading, the pressure drop across the baghouse or dust collector is outside any of the following ranges or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM-OAQ and HDEM and shall be calibrated at least once every six (6) months or in accordance with the manufacturer's specifications provided those specifications are available on site with the Preventive Maintenance Plan.

	Unit ID	Control Equipment	Pressure Drop Range (inches of water)
(a)	Channel 2 Receiver (93-32-W)	Dust Collector	0.1 - 6
(b)	Channel 3 Receiver (93-33-W)	Dust Collector	0.1 - 6
(c)	Channel 4 Receiver (93-34-W)	Dust Collector	0.1 - 6
(d)	Channel 6 Receiver (Dextrin) (93-35-W)	Dust Collector	0.1 - 6
(e)	Channel 4/6 Packing (Dextrin) (93-37-W)	Dust Collector	0.1 - 6
(f)	Channel 2/3 Packing (93-36-W)	Dust Collector	0.1 - 6
(g)	Central Vacuum System (93-38-W)	Dust Collector	0.1 - 6
(h)	Dried Corn Syrup (Frodex) Conveying System (93-04-W)	Dust Collector	0.1 - 6
(i)	Corn Syrup Solids Conveying System (93-05-W)	Dust Collector	0.1 - 6
(j)	Frodex Semi-bulk Packing System (93-08-W)	Dust Collector	0.1 - 6
(k)	Cornstarch Bag Dump Stations 1 & 2 (93-09-W and 93-10-W)	Dust Collectors	0.1 - 6 each

(l)	Starch Bulk Loading (93-14-W)	Dust Collector	0.1 - 6
(m)	Starch Bulk Loading Vacuum Cleanup System (93-15-W)	Dust Collector	0.1 - 6
(n)	Starch Mix and Bulk Bag Systems 1 & 2 (93-16-W and 93-17-W)	Dust Collectors	0.1 - 6 each
(o)	P.G. Starch Receiver (93-18-W)	Dust Collector	0.1 - 6
(p)	P.G. Starch Packing (Unit ID 93-39-W)	Dust Collector	0.1 - 6

D.7.7 Baghouse (Dust Collector) Inspections

An inspection shall be performed each calendar quarter of all bags that control particulate emissions. Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

D.7.8 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

(b) For single compartment baghouses, if failure is indicated by a significant drop in the pressure readings with abnormal visible emissions or the failure is indicated by an opacity violation, or if bag failure is determined by other means, such as gas temperatures, flow rates, air infiltration, leaks, or dust traces, then failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

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

D.7.9 Record Keeping Requirements

(a) To document compliance with Condition D.7.5, the Permittee shall maintain records of the visible emission notations of the Starch Warehouse Area Facility stack exhausts.

(b) To document compliance with Condition D.7.6, the Permittee shall maintain daily records of the total static pressure drop readings.

(c) To document compliance with Condition D.7.7, the Permittee shall maintain records of the results of the inspections.

(d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PART 70 OPERATING PERMIT CERTIFICATION

Source Name: **Cargill, Inc.**
Source Address: 1100 Indianapolis Boulevard
Hammond, Indiana 46320
Mailing Address: 1100 Indianapolis Boulevard
Hammond, Indiana 46320-1094
Part 70 Permit No.: T089-7994-00203

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
P.O. Box 6015
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

5925 Calumet Avenue
Hammond, Indiana 46320

PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT

Source Name: **Cargill, Inc.**
Source Address: 1100 Indianapolis Boulevard
Hammond, Indiana 46320
Mailing Address: 1100 Indianapolis Boulevard
Hammond, Indiana 46320-1094
Part 70 Permit No.: T089-7994-00203

This form consists of 2 pages **Page 1 of 2**

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

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 OPERATING PERMIT
QUARTERLY NATURAL GAS FIRED BOILER CERTIFICATION

Source Name: **Cargill, Inc.**
Source Address: 1100 Indianapolis Boulevard
Hammond, Indiana 46320
Mailing Address: 1100 Indianapolis Boulevard
Hammond, Indiana 46320-1094
Part 70 Permit No.: T089-7994-00203

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

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

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

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT

Source Name: **Cargill, Inc.**
Source Address: 1100 Indianapolis Boulevard
Hammond, Indiana 46320
Mailing Address: 1100 Indianapolis Boulevard
Hammond, Indiana 46320-1094
Part 70 Permit No.: T089-7994-00203

Months: _____ to _____ Year: _____

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

__ NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

__ THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation: **Duration of Deviation:**

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation: **Duration of Deviation:**

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Page 2 of 2

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

and

Hammond Department of Environmental Management
Air Pollution Control Division

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

Source Description and Location

Source Name:	Cargill, Inc
Source Location:	1100 Indianapolis Boulevard, Hammond, Indiana 46320
County:	Lake County
SIC Code:	2046 – Wet Corn Milling
Operation Permit No.:	T089-7994-00203
Operation Permit Issuance Date:	June 28, 2004
Significant Source Modification No.:	089-22309-00203
Significant Permit Modification No.:	089-22333-00203
Permit Reviewer:	Ronald Holder - HDEM

Existing Approvals

The source was issued Part 70 Operating Permit No. T089-7994-00203 on June 28, 2004. The source has since received the following approvals:

(a) Administrative Amendment No. 089-19797-00203, issued on November 17, 2004;

(b) Administrative Amendment No. 089-20933-00203, issued on April 1, 2005; and

(c) Administrative Amendment No. 089-21610-00203, issued on August 22, 2005.

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM10	Attainment
PM2.5	Nonattainment
SO_2	Nonattainment
NO_2	Attainment
1-hour Ozone	Severe Nonattainment
8-hour Ozone	Moderate Nonattainment
CO	Attainment
Lead	Attainment

(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 January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standard. Lake County has been designated as severe non-attainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(2) VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as non-attainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(b) U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM2.5. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM10 emissions as a surrogate for PM2.5 emissions pursuant to the requirements of Emission Offset, 326 IAC 2-3.

(c) Lake County has been classified as attainment or unclassifiable for PM10, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) Lake County has been classified as nonattainment for PM2.5 and SO_2. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

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

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 (tons/year)
PM10	> 100
SO_2	> 100
VOC	> 250
CO	> 250
NO_x	> 250

(a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

(b) This existing source is a major stationary source under Emission Offset (326 IAC 2-3) because PM2.5 (as PM10), SO_2, and VOC, non-attainment regulated pollutants, are emitted at a rate of 100 tons per year or more.

(c) These emissions are based upon the potential to emit after control as reported in the source's 2004 emission statement.

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 (tons/year)
Propylene oxide	> 10
Hydrochloric acid	< 10
Toluene	< 10
Formaldehyde	< 10
Acetaldehyde	< 10
TOTAL	> 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 or 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).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2004 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	97.6
PM10	97.6
SO_2	128.3
VOC	65.5
CO	97.9
NO_x	232.2
Propylene Oxide	9.0
Hydrochloric acid	4.6
Toluene	1.3

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Cargill, Inc. on November 23, 2005, relating to the installation of new emission unit Package Boiler #1 and the removal of existing Boilers 1, 2, 6, 7, 8, and 10 (see Appendix A calculations). Boilers 1, 2, 6, 7, 8, and 10 will be permanently retired when the new boiler becomes operational. The following is a description of Package Boiler #1 as it will appear in the permit.

Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{0}F)
S89-03-U	Package Boiler #1	89	4.6	69,137	286

Emission Calculations

See Appendix A of this document for detailed emission calculations (four (4) pages).

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 of Package Boiler #1 before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	8.89
PM10	8.89
SO_2	0.70
VOC	6.43
CO	98.26
NO_x	119.3

This significant source modification is subject to 326 IAC 2-7-10.5(f)(4) because it has the potential to emit greater than or equal to twenty-five (25) tons per year of nitrogen oxides (NO_X). 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) because of the significant change in existing monitoring Part 70 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.

Boiler project	**Emissions changes (tons/year)**						
Process/Emission Unit	**PM**	**PM10/2.5**	**SO_2**	**VOC**	**CO**	**NO_X**	***Pb***
Potential to Emit of New Emission Unit Package Boiler #1 (tons/year)	8.9	8.9	0.7	6.4	98.3	119.3	0.0006
Past Actual Emissions of the Retiring Emission Unit - Boiler #2	2.4	0.9	0.2	1.7	26.1	42.0	0.0002
Past Actual Emissions of the Retiring Emission Unit - Boiler #6	4.2	1.7	0.3	3.0	46.2	154.0	0.0003
Past Actual Emissions of the Retiring Emission Unit - Boiler #8	0.8	0.3	0.1	0.6	8.9	29.7	0.0001
Past Actual Emissions of the Retiring Emission Unit - Boiler #10	0.8	0.3	0.1	0.6	8.9	29.7	0.0001
Net Emissions increase (tons/year)	**0.7**	**5.7**	**0.1**	**0.5**	**8.3**	**-136.1**	**0.0000**

PSD/Emission Offset Significant Level	**25**	**15**	**40**	**40/25**	**100**	**40**	**0.6**

VOC - 25 tpy is the de minimis in an area classified as serious or severe nonattainment for ozone (see VOC de minimis determination)

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

This modification to an existing major stationary source is not major because the emissions increase is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Emissions reductions from the removal of Boilers #1 and #7 are not included above because their retirement is required by Federal Consent Decree 741150 (IDEM case# 2005-14646-A).

VOC De Minimis Determination

(1) Lake County is classified as a severe nonattainment area for ozone.

(2) Since Cargill, Inc. is located in Lake County, the proposed modification must be evaluated to determine if it is a minor modification in terms of 326 IAC 2-3 by determining if the VOC emissions increase is de minimis. [326 IAC 2-3-1(z)]

(3) De minimis means a VOC increase that does not exceed twenty-five (25) tons per year when the net emissions increases from the proposed modification are aggregated 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. [326 IAC 2-3-1(q)]

(4) The VOC de minimis determination is not necessary because the VOC emissions increase from this Boiler project is less than fifteen (15) pounds per day.

Federal Rule Applicability Determination

The following federal rules are applicable to the source due to this modification:

(a) Pursuant to 40 CFR 60.40b, paragraph (j), Package Boiler #1 is not subject to 40 CFR 60.40, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators), because it meets the applicability requirements under paragraph (a) of 40 CFR 60.40b and will commence construction, modification, or reconstruction after June 19, 1986.

(b) Package Boiler #1 is subject to the New Source Performance Standards **(NSPS)** for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40b, Subpart Db, which is incorporated by reference as 326 IAC 12, because it will be installed after June 19, 1984 and has a heat input capacity greater than 100 million Btu/hr.

Nonapplicable portions of the NSPS will not be included in the permit. Package Boiler #1 is subject to the following portions of Subpart Db:

40 CFR 60.40b(a)
40 CFR 60.40b(j)

40 CFR 60.44b(a)(1)
40 CFR 60.44b(h)
40 CFR 60.44b(i)

40 CFR 60.46b(a)
40 CFR 60.46b(c)
40 CFR 60.46b(e)(1)

40 CFR 60.48b(b)(1)
40 CFR 60.48b(c)
40 CFR 60.48b(d)
40 CFR 60.48b(e)(2)
40 CFR 60.48b(f)

40 CFR 60.49b(a)(1)
40 CFR 60.49b(a)(3)
40 CFR 60.49b(b)
40 CFR 60.49b(d)
40 CFR 60.49b(g)
40 CFR 60.49b(i)
40 CFR 60.49b(o)
40 CFR 60.49b(v)
40 CFR 60.49b(w)

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to Package Boiler #1, except when otherwise specified in 40 CFR 60, Subpart Db.

(c) Package Boiler #1 is subject to the National Emission Standards for Hazardous Air Pollutants **(NESHAP)** for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63.7480, Subpart DDDDD) because it is an industrial boiler in the large gaseous fuel subcategory. At the time of this review, Subpart DDDDD had not yet been incorporated by reference into 326 IAC 20.

Nonapplicable portions of the NESHAP will not be included in the permit. Package Boiler #1 is subject to the following portions of Subpart DDDDD:

40 CFR 63.7480

40 CFR 63.7485

40 CFR 63.7490(a)(2)
40 CFR 63.7490(b)

40 CFR 63.7495(a)
40 CFR 63.7495(d)

40 CFR 63.7499

40 CFR 63.7500(a)(1)
40 CFR 63.7500(b)

40 CFR 63.7505

40 CFR 63.7510(a)
40 CFR 63.7510(c)
40 CFR 63.7510(g)

40 CFR 63.7525(a)
40 CFR 63.7525(c)
40 CFR 63.7525(d)
40 CFR 63.7525(e)

40 CFR 63.7535

40 CFR 63.7540(a)(10)
40 CFR 63.7540(b)
40 CFR 63.7540(c)
40 CFR 63.7540(d)

40 CFR 63.7545(a)
40 CFR 63.7545(c)

40 CFR 63.7550(a)
40 CFR 63.7550(b)
40 CFR 63.7550(c)
40 CFR 63.7550(e)
40 CFR 63.7550(f)
40 CFR 63.7550(g)

40 CFR 63.7555(a)
40 CFR 63.7555(b)(1)
40 CFR 63.7555(b)(3)
40 CFR 63.7555(b)(4)
40 CFR 63.7555(b)(5)
40 CFR 63.7555(c)
40 CFR 63.7555(d)(1)

40 CFR 63.7560
40 CFR 63.7565
40 CFR 63.7570

40 CFR 63.7575 (applicable definitions)

The following tables in Subpart DDDDD also apply:

Table 1 (7)
Table 8 (7b)
Table 9
Table 10 (applicable parts)

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart DDDDD.

(d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:

(1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;

(2) is subject to an emission limitation or standard for that pollutant; and

(3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

Package Boiler #1 does not use a control device, as defined in 40 CFR 64.1, to comply with an emission limitation or standard. Therefore, the requirements of 40 CFR Part 64, CAM are not applicable.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

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

PSD and Emission Offset applicability are discussed under the Permit Level Determination - PSD and Emission Offset and VOC De Minimus Determination.

326 IAC 2-6 (Emission Reporting)

Since this source is located in Lake County, and has a potential to emit NOx and VOC greater than or equal to twenty-five (25) tons per year, an emission statement covering the previous calendar year must be submitted by July 1 of each year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

326 IAC 6.8 (Particulate Matter Limitations for Lake County)

Pursuant to 326 IAC 6.8-1-2(b)(3), particulate matter emissions from gaseous fuel-fired steam generators shall not exceed 0.01 grains per dry standard cubic foot (dscf).

Package Boiler #1 shall burn natural gas only. The emission factors, for the combustion of natural gas, from the EPA emission factor listing (FIRE Version 5.0) predict particulate matter emissions to be within this limitation (see Appendix A – calculations).

326 IAC 12-1 (New Source Performance Standards – General Provisions)

Package Boiler #1 is subject to 326 IAC 12-1 (New Source Performance Standards). 326 IAC 12-1 incorporates by reference 40 CFR 60.40b, Subpart Db. The Permittee will comply with the provisions of 40 CFR 60.40b, Subpart Db, as detailed in the Federal Rule Applicability section above.

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.

Package Boiler #1 has applicable compliance determination conditions as specified below:

(a) Pursuant to the federal rules listed above, compliance with the nitrogen oxide (NOx) limitations under the New Source Performance Standards (NSPS) in 40 CFR 60 and the carbon monoxide (CO) limitations under the National Emission Standards for Hazardous Pollutants (NESHAP) in 40 CFR 63 shall be determined through performance evaluations and continuous operation of the monitoring systems required under each rule.

(b) Related notifications, recordkeeping, and reporting are also required for the above initial and continuous compliance determinations.

Emission Unit	Control Device	Timeframe for Testing	Pollutant	Frequency of Testing	Limit or Requirement
Package Boiler #1	none	180 days	NOx	Initial performance test for NOx	0.1 lbs/MMBtu
CEMs		180 days	CO	Initial performance evaluation of CEMS	400 ppm

The compliance monitoring requirements applicable to this modification are as follows:

(c) Package Boiler #1 has applicable compliance monitoring conditions as specified below:

(1) For the NSPS NOx limitation, the source must install, operate, and maintain a continuous emission monitoring system (CEMS) and submit a quarterly report of the 30-day rolling average of NOx emissions no later than 30 days after the quarter being reported.

(2) For the NESHAP CO limitations, the source must install, operate, and maintain a continuous emission monitoring system (CEMS) and submit a semiannual report of the 30-day rolling average of CO emissions no later than 30 days after the semiannual period being reported.

These monitoring conditions are necessary to demonstrate continuing compliance with the standards in the federal rules.

Revisions and Updates

The following revisions and updates have been made to this Part 70 permit. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**. The Table of Contents has been corrected accordingly:

1. **On page 17**, in Section B, General Conditions, the permit number has been added to Condition B.2 as follows to specifically identify the permit to which the condition applies:

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.9]

This permit **(T089-7994-00203)** 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.

2. **On page 18**, in Section B, General Conditions, the following has been deleted from part (a) in the Annual Compliance Certification Condition B.9:

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

3. **On page 19**, in Section B, General Conditions, in the Preventive Maintenance Condition B.10, part (b) has been deleted and (c) and (d) have been re-designated (b) and (c):

~~(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~

~~(c)~~ **(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).

~~(d)~~ **(c)** To the extent the Permittee is required by 40 CFR 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.

4. **On page 20**, in Section B, General Conditions, in the Emergency Provisions Condition B.11, the IDEM phone numbers have been corrected as follows:

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

Telephone Number: 317-233-~~5674~~ **0178** (ask for Compliance Section)
Facsimile Number: 317-233-~~5967~~ **6865**

5. **On page 28**, in Section B, General Conditions, Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule is effective March 16, 2005; therefore, the older condition was replaced with the condition that reflects this as follows:

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

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.~~

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.

6. **On page 37 and 38**, in Section C, Source Operation Conditions, recordkeeping and reporting requirements have been revised to include new requirements for major NSR sources. Also additional instructions are being added to address when recordkeeping shall be implemented if it is not already required.

C.22 General Record Keeping Requirements
[326 IAC 2-7-5(3)] [326 IAC 2-7-6] **[326 IAC 2-2] [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 Clean Unit, 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)) may result in significant emissions increase 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 (ll)) 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)(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.23 General Reporting Requirements
[326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] **[326 IAC 2-2] [326 IAC 2-3]**

(a) The ~~source~~ **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

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.

(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
Indianapolis, Indiana 46204

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.

7. **On page 38 and 39**, in Section C, the Part 2 MACT Application Submittal Requirement, C.25, has been removed as follows:

~~**Part 2 MACT Application Submittal Requirement**~~

~~C.25 Application Requirements for Section 112(j) of the Clean Air Act [40 CFR 63.52(e)] [40 CFR 63.56(a)] [40 CFR 63.9(b)] [326 IAC 2-7-12]~~

~~(a) The Permittee shall submit a Part 2 MACT Application in accordance with 40 CFR 63.52(e)(1). The Part 2 MACT Application shall meet the requirements of 40 CFR 63.53(b).~~

~~(b) Notwithstanding paragraph (a), the Permittee is not required to submit a Part 2 MACT Application if the Permittee no longer meets the applicability criteria of 40 CFR 63.50 by the application deadline in 40 CFR 63.52(e)(1). For example, the Permittee would not have to submit a Part 2 MACT Application if, by the application deadline:~~

~~(1) The source is no longer a major source of hazardous air pollutants, as defined in 40 CFR 63.2;~~

~~(2) The source no longer includes one or more units in an affected source category for which the U.S. EPA failed to promulgate an emission standard by May 15, 2002; or~~

~~(3) The MACT standard or standards for the affected source categories included at the source are promulgated.~~

~~(c) Notwithstanding paragraph (a), pursuant to 40 CFR 63.56(a), the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT standard if the MACT standard is promulgated prior to the Part 2 MACT Application deadline or prior to the issuance of a permit with a case-by-case Section 112(j) MACT determination. The MACT requirements include the applicable General Provisions requirements of 40 CFR 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The initial notification shall be submitted to:~~

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

~~and~~

~~United States Environmental Protection Agency, Region V
Director, Air and Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604-3590~~

~~and~~

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

Other Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. T089-7994-00203. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**:

During an annual source inspection conducted on October 25, 2005, it was discovered that the Loose Feed Silo (Unit ID: 200-06-G) had been converted to service as the Corn Screenings Silo. After review, it was determined that the change of service did not result in a change of emissions or the air pollution control device. Cargill submitted a request on November 8, 2005 to amend their Part 70 permit accordingly. It was agreed to make the following changes at this time:

1. **On page 9,** in Section A.2, Emission Units and Pollution Control Equipment Summary, the Loose Feed Silo name has been changed to Corn Screenings Silo as follows:

(w) ~~Loose Feed Silo~~ **Corn Screenings Silo** (Unit ID 200-06-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-06-G) that exhausts to stack S200-06-G.

2. **On page 47,** in Section D.3, in the Facility Description Box, the Loose Feed Silo name has been changed to Corn Screenings Silo as follows:

(w) ~~Loose Feed Silo~~ **Corn Screenings Silo** (Unit ID 200-06-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-06-G) that exhausts to stack S200-06-G.

3. **On page 49,** in Condition D.3.2, the Loose Feed Silo name has been changed to Corn Screenings Silo as follows:

(w)	~~Loose Feed Silo~~ **Corn Screenings Silo** (200-06-G)	0.005	0.02

4. **On page 52,** in Condition D.3.14, the Loose Feed Silo name has been changed to Corn Screenings Silo as follows:

(w)	~~Loose Feed Silo~~ **Corn Screenings Silo** (200-06-G)	Dust Collector	0.1 - 6

On March 21, 2006, based upon operating conditions for the past year and design engineering information, Cargill requested the following update to the operating pressure drop range for the Gluten Ring Dryer Scrubber System (121-01-G).

5. **On page 52**, the pressure drop range for the Gluten Dryer scrubber has been updated as follows:

(a)	Gluten Ring Dryer System (121-01-G)	Wet Scrubber	~~11 - 17~~ **12 - 19**

Proposed changes due to the installation of Package Boiler #1 and the removal of Boilers #1, #2, #6, #7, #8, and #10:

1. **On page 11,** in Section A.2, Emission Units and Pollution Control Equipment Summary, Package Boiler #1 is added as follows:

(d) Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.

2. **On page 11,** in Section A.2, Boilers 7, 8, and 10, ~~(d)~~, ~~(e),~~ and ~~(f)~~, have been re-lettered to **(e), (f), and (g).**

3. **On page 55,** in Section D.4, in the Facility Description Box, the Utility Area description has been updated and Package Boiler #1 has been added as follows. Boilers 7, 8, and 10, ~~(d)~~, ~~(e),~~ and ~~(f)~~, have been re-lettered to **(e), (f), and (g).**

The Utility area includes ~~six (6)~~ **the following** boilers used to supply steam for plant processes. A small rental, natural gas-fired boiler is used when all boilers are down for maintenance.

(d) Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.

4. **On page 55,** Condition D.4.1 has been corrected to reflect a new rule cite. 326 IAC 6-1 has been repealed and the new Lake County particulate rule is 326 IAC 6.8. Also, the Unit IDs for Boilers #1 and #2 have been added to avoid confusion with the new boiler.

D.4.1 Paticulate Matter less than 10 microns in diameter (PM10) ~~[326 IAC 6-1-10.1(h)]~~ **[326 IAC 6.8]**

Pursuant to ~~326 IAC 6-1-10.1 (Lake County PM10 Emission Requirements)~~ **326 IAC 6.8-6 (Lake County: Combustion Sources; Natural Gas),** ~~subsection (h),~~ **section 4**, Boilers #1 and #2 shall fire natural gas only and emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit (lbs/MMBtu)	PM10 Limit (lbs/hr)
Boiler #1 **(10-01-U)**	0.003	0.288
Boiler #2 **(10-02-U)**	0.003	0.468

5. **On page 56,** Condition D.4.2 has been corrected as follows to reflect the new rule cite for particulate matter in Lake County:

D.4.2 Particulate Matter less than 10 microns in diameter (PM10) ~~[326 IAC 6-1-10.1(d)]~~ **[326 IAC 6.8]**

Pursuant to 326 IAC ~~6-1-10.1~~ **6.8-2** (Lake County**:** PM10 Emission Requirements), ~~subsection (d)~~ **section 8**, emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit
Stack Serving Boilers 6 & 7	30.3 lbs/hr
Stack Serving Boilers 8 & 10	22.7 lbs/hr

6. On page 56, in Section D.4, under Emissions Limitation and Standards, the PM10 limitation for Package Boiler #1 is added as D.4.3 as follows: Existing conditions ~~D.4.3~~ and ~~D.4.4~~ were re-numbered **D.4.4 and D.4.5**.

D.4.3 Particulate Matter Limitations for Lake County [326 IAC 6.8]

Pursuant to 326 IAC 6.8-1-2(b)(3), Package Boiler #1 shall burn natural gas only and particulate matter emissions shall not exceed 0.01 grains per dry standard cubic foot (dscf).

7. On page 56, in section D.4, under Compliance Determination Requirements, ~~D.4.5~~ is re-numbered to **D.4.6** and the reference to condition ~~D.4.3~~ is re-numbered to **D.4.4.**

~~D.4.5~~ **D.4.6** Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

Compliance with Condition ~~D.4.3~~ **D.4.4** shall be determined utilizing one of the……..

8. On page 57, in Section D.4, under Compliance Determination Requirements, Condition D.4.7 is added as follows. D.4.7(c) has been added because those conditions will not apply after the removal of the existing boilers and because fuel oil is not used anymore.

D.4.7 Operational Requirements [326 IAC 2-7-5(1)]

(a) Compliance with the particulate matter limitation in Condition D.4.3 for Package Boiler #1 shall be determined by the combustion of natural gas only.

(b) Boilers #1, #2, #6, #7, #8, and #10 shall cease operation and be permanently decommissioned when Package Boiler #1 becomes operational.

(c) Upon cessation of operation of Boilers #1, #2, #6, #7, #8, and #10, Conditions D.4.1, D.4.2, D.4.4, D.4.6, D.4.8, D.4.9, and D.4.10(a) will not be applicable.

9. On page 57, in Section D.4, under Compliance Monitoring Requirements, the Visible Emissions Notations condition is re-numbered from ~~D.4.6~~ to D**.4.8**.

10. On page 57, in Section D.4, the record keeping and reporting conditions and the condition references have been re-numbered as follows:

~~D.4.7~~ **D.4.9** Record Keeping Requirements

(a) In accordance with 326 IAC 7-4-1.1(c)(1)(B)(i) and in order to document compliance with Condition ~~D.4.3~~ **D.4.4**, the Permittee shall maintain records of the following for each hour in which any boiler operates on fuel oil.

(1) Average sulfur content

(2) Fuel oil usage

(3) Boiler operating load

(b) To document compliance with Condition ~~D.4.6~~ **D.4.8**, the Permittee shall maintain records of the visible emission notations (while burning fuel oil) of the boiler stack exhausts.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

~~D.4.8~~ **D.4.10** Reporting Requirements

(a) In accordance with 326 IAC 7-2-1(c)(3) and 326 IAC 7-4-1.1(c)(1)(B)(ii), the Permittee shall submit a report to the department within thirty (30) days after the end of each calendar quarter. The report shall also contain the records required in Condition ~~D.4.7~~ **D.4.9** for Boilers 6, 7, 8, and 10, while burning fuel oil, including a calculation of the total sulfur dioxide emissions from all boilers for each hour.

(b) The natural gas boiler certification shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or its equivalent, within thirty (30) days after the end of the calendar quarter being reported. The natural gas-fired boiler certification does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

11. Starting on page 58, all of the following has been added to Section D.4 due to the applicability of Package Boiler #1 to the New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40b, Subpart Db) and the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63.7480, Subpart DDDDD):

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

D.4.11 General Provisions Relating to the NSPS for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b, Subpart Db] [326 IAC 12-1] [40 CFR 60, Subpart A]

Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for Package Boiler #1 as specified in 40 CFR 60.40b, Subpart Db in accordance with the schedule in 40 CFR 60.40b, Subpart Db.

D.4.12 NSPS for Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR 60.40b, Subpart Db] [326 IAC 12-1]

Pursuant to 40 CFR 60.40b, Subpart Db, the Permittee shall comply with the provisions of 40 CFR 60.40b, Subpart Db, which are incorporated by reference as 326 IAC 12-1, for Package Boiler #1 as specified as follows:

§ 60.40b Applicability and delegation of authority.

(a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 million Btu/hour).

(j) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators, §60.40).

§ 60.44b Standard for nitrogen oxides.

(a) Except as provided under paragraphs (k) and (l) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides (expressed as NO2) in excess of the following emission limits:

Fuel/Steam generating unit type	Nitrogen oxide emission limits ng/J(lb/million Btu) (expressed as NO2) Heat input
(1) Natural gas and distillate oil, except (4):	
(i) Low heat release rate	43 (0.10)

(h) For purposes of paragraph (i) of this section, the nitrogen oxide standards under this section apply at all times including periods of startup, shutdown, or malfunction.

(i) Except as provided under paragraph (j) of this section, compliance with the emission limits under this section is determined on a 30-day rolling average basis.

§ 60.46b Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.

(a) The particulate matter emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction. The nitrogen oxides emission standards under §60.44b apply at all times.

(c) Compliance with the nitrogen oxides emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.

(e) To determine compliance with the emission limits for nitrogen oxides required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring nitrogen oxides under §60.48(b).

(1) For the initial compliance test, nitrogen oxides from the steam generating unit are monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the nitrogen oxides emission standards under §60.44b. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.

§ 60.48b Emission monitoring for particulate matter and nitrogen oxides.

(b) Except as provided under paragraphs (g), (h), and (i) of this section, the owner or operator of an affected facility shall comply with either paragraphs (b)(1) or (b)(2) of this section.

(1) Install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere;

(c) The continuous monitoring systems required under paragraph (b) of this section shall be operated and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(d) The 1-hour average nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor required by paragraph (b) of this section and required under §60.13(h) shall be expressed in ng/J or lb/million Btu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(b). At least 2 data points must be used to calculate each 1-hour average.

(e) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

(2) For affected facilities combusting coal, oil, or natural gas, the span value for nitrogen oxides is determined as follows:

Fuel	Span values for nitrogen oxides (PPM)
Natural gas	500

(f) When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

§ 60.49b Reporting and recordkeeping requirements.

(a) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility,

(3) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired, and,

(b) The owner or operator of each affected facility subject to the sulfur dioxide, particulate matter, and/or nitrogen oxides emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility.

(d) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the nitrogen oxides standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date.

(2) The average hourly nitrogen oxides emission rates (expressed as NO2) (ng/J or lb/million Btu heat input) measured or predicted.

(3) The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.

(4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.

(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.

(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

(8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.

(9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.

(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.

(i) The owner or operator of any affected facility subject to the continuous monitoring requirements for nitrogen oxides under §60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.

(o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.

(v) The owner or operator of an affected facility may submit electronic quarterly reports for SO2 and/or NOX and/or opacity in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.

(w) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

D.4.13 One Time Deadlines Relating to NSPS 60.40b, Subpart Db

(a) Pursuant to §60.46b(e), the Permittee must conduct the initial performance test for Package Boiler #1 no later than 180 days after the initial start-up.

(b) Pursuant to §60.48b(e), the Permittee must install the NOx CEM prior to the performance test.

National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

D.4.14 General Provisions Relating to NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63.7565, Subpart DDDDD] [326 IAC 20-1] [40 CFR 63, Subpart A]

Pursuant to 40 CFR 63.7565, the Permittee shall comply with the provisions of 40 CFR 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for Package Boiler #1 as specified in Table 10 of 40 CFR 63, Subpart DDDDD in accordance with the schedule in 40 CFR 63, Subpart DDDDD.

D.4.15 NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters Requirements [40 CFR 63.7480, Subpart DDDDD]

Pursuant to 40 CFR 63, Subpart DDDDD, the Permittee shall comply with the provisions of 40 CFR 63, Subpart DDDDD, for Package Boiler #1 as specified as follows:

§ 63.7480 What is the purpose of this subpart?

This subpart establishes national emission limits and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits and work practice standards.

§ 63.7485 Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP as defined in §63.2 or §63.761 (40 CFR part 63, subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities), except as specified in §63.7491.

§ 63.7490 What is the affected source of this subpart?

(a) This subpart applies to new, reconstructed, or existing affected sources as described in paragraphs (a)(1) and (2) of this section.

(2) The affected source of this subpart is each new or reconstructed industrial, commercial, or institutional boiler or process heater located at a major source as defined in §63.7575.

(b) A boiler or process heater is new if you commence construction of the boiler or process heater after January 13, 2003, and you meet the applicability criteria at the time you commence construction.

§ 63.7495 When do I have to comply with this subpart?

(a) If you have a new or reconstructed boiler or process heater, you must comply with this subpart by November 12, 2004 or upon startup of your boiler or process heater, whichever is later.

(d) You must meet the notification requirements in §63.7545 according to the schedule in §63.7545 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limits and work practice standards in this subpart.

§ 63.7499 What are the subcategories of boilers and process heaters?

The subcategories of boilers and process heaters are large solid fuel, limited use solid fuel, small solid fuel, large liquid fuel, limited use liquid fuel, small liquid fuel, large gaseous fuel, limited use gaseous fuel, and small gaseous fuel. Each subcategory is defined in §63.7575.

§ 63.7500 What emission limits, work practice standards, and operating limits must I meet?

(a) You must meet the requirements in paragraphs (a)(1) and (2) of this section.

(1) You must meet each emission limit and work practice standard in Table 1 to this subpart that applies to your boiler or process heater, except as provided under §63.7507.

(b) As provided in §63.6(g), EPA may approve use of an alternative to the work practice standards in this section.

§ 63.7505 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limits (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).

(c) You can demonstrate compliance with any applicable emission limit using fuel analysis if the emission rate calculated according to §63.7530(d) is less than the applicable emission limit. Otherwise, you must demonstrate compliance using performance testing.

(d) If you demonstrate compliance with any applicable emission limit through performance testing, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).

(1) For each continuous monitoring system (CMS) required in this section, you must develop and submit to the EPA Administrator for approval a site-specific monitoring plan that addresses paragraphs (d)(1)(i) through (iii) of this section. You must submit this site-specific monitoring plan at least 60 days before your initial performance evaluation of your CMS.

(i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (*e.g.*, on or downstream of the last control device);

(ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and

(iii) Performance evaluation procedures and acceptance criteria (*e.g.*, calibrations).

(2) In your site-specific monitoring plan, you must also address paragraphs (d)(2)(i) through (iii) of this section.

(i) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (c)(3), and (c)(4)(ii);

(ii) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c), (e)(1), and (e)(2)(i).

(3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan.

(4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.

(e) If you have an applicable emission limit or work practice standard, you must develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).

§ 63.7510 What are my initial compliance requirements and by what date must I conduct them?

(a) For affected sources that elect to demonstrate compliance with any of the emission limits of this subpart through performance testing, your initial compliance requirements include conducting performance tests according to §63.7520 and Table 5 to this subpart, conducting a fuel analysis for each type of fuel burned in your boiler or process heater according to §63.7521 and Table 6 to this subpart, establishing operating limits according to §63.7530 and Table 7 to this subpart, and conducting CMS performance evaluations according to §63.7525.

(c) For affected sources that have an applicable work practice standard, your initial compliance requirements depend on the subcategory and rated capacity of your boiler or process heater. If your boiler or process heater is in any of the limited use subcategories or has a heat input capacity less than 100 MMBtu per hour, your initial compliance demonstration is conducting a performance test for carbon monoxide according to Table 5 to this subpart. If your boiler or process heater is in any of the large subcategories and has a heat input capacity of 100 MMBtu per hour or greater, your initial compliance demonstration is conducting a performance evaluation of your continuous emission monitoring system for carbon monoxide according to §63.7525(a).

(g) If your new or reconstructed affected source commences construction or reconstruction after November 12, 2004, you must demonstrate initial compliance with the promulgated emission limits and work practice standards no later than 180 days after startup of the source.

§ 63.7525 What are my monitoring, installation, operation, and maintenance requirements?

(a) If you have an applicable work practice standard for carbon monoxide, and your boiler or process heater is in any of the large subcategories and has a heat input capacity of 100 MMBtu per hour or greater, you must install, operate, and maintain a continuous emission monitoring system (CEMS) for carbon monoxide according to the procedures in paragraphs (a)(1) through (6) of this section by the compliance date specified in §63.7495.

(1) Each CEMS must be installed, operated, and maintained according to Performance Specification (PS) 4A of 40 CFR part 60, appendix B, and according to the site-specific monitoring plan developed according to §63.7505(d).

(2) You must conduct a performance evaluation of each CEMS according to the requirements in §63.8 and according to PS 4A of 40 CFR part 60, appendix B.

(3) Each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(4) The CEMS data must be reduced as specified in §63.8(g)(2).

(5) You must calculate and record a 30-day rolling average emission rate on a daily basis. A new 30-day rolling average emission rate is calculated as the average of all of the hourly CO emission data for the preceding 30 operating days.

(6) For purposes of calculating data averages, you must not use data recorded during periods of monitoring malfunctions, associated repairs, out-of-control periods, required quality assurance or control activities, or when your boiler or process heater is operating at less than 50 percent of its rated capacity. You must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out of control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(c) If you have an operating limit that requires the use of a CMS, you must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the procedures in paragraphs (c)(1) through (5) of this section by the compliance date specified in §63.7495.

(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four successive cycles of operation to have a valid hour of data.

(2) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must conduct all monitoring in continuous operation at all times that the unit is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(3) For purposes of calculating data averages, you must not use data recorded during monitoring malfunctions, associated repairs, out of control periods, or required quality assurance or control activities. You must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(4) Determine the 3-hour block average of all recorded readings, except as provided in paragraph (c)(3) of this section.

(5) Record the results of each inspection, calibration, and validation check.

(d) If you have an operating limit that requires the use of a flow measurement device, you must meet the requirements in paragraphs (c) and (d)(1) through (4) of this section.

(1) Locate the flow sensor and other necessary equipment in a position that provides a representative flow.

(2) Use a flow sensor with a measurement sensitivity of 2 percent of the flow rate.

(3) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(4) Conduct a flow sensor calibration check at least semiannually.

(e) If you have an operating limit that requires the use of a pressure measurement device, you must meet the requirements in paragraphs (c) and (e)(1) through (6) of this section.

(1) Locate the pressure sensor(s) in a position that provides a representative measurement of the pressure.

(2) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.

(3) Use a gauge with a minimum tolerance of 1.27 centimeters of water or a transducer with a minimum tolerance of 1 percent of the pressure range.

(4) Check pressure tap pluggage daily.

(5) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.

(6) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

§ 63.7535 How do I monitor and collect data to demonstrate continuous compliance?

(a) You must monitor and collect data according to this section and the site-specific monitoring plan required by §63.7505(d).

(b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times that the affected source is operating.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, or required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system. Boilers and process heaters that have an applicable carbon monoxide work practice standard and are required to install and operate a CEMS, may not use data recorded during periods when the boiler or process heater is operating at less than 50 percent of its rated capacity.

§ 63.7540 How do I demonstrate continuous compliance with the emission limits and work practice standards?

(a) You must demonstrate continuous compliance with each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (10) of this section.

(10) If you have an applicable work practice standard for carbon monoxide, and you are required to install a CEMS according to §63.7525(a), then you must meet the requirements in paragraphs (a)(10)(i) through (iii) of this section.

(i) You must continuously monitor carbon monoxide according to §§63.7525(a) and 63.7535.

(ii) Maintain a carbon monoxide emission level below your applicable carbon monoxide work practice standard in Table 1 to this subpart at all times except during periods of startup, shutdown, malfunction, and when your boiler or process heater is operating at less than 50 percent of rated capacity.

(iii) Keep records of carbon monoxide levels according to §63.7555(b).

(b) You must report each instance in which you did not meet each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that apply to you. You must also report each instance during a startup, shutdown, or malfunction when you did not meet each applicable emission limit, operating limit, and work practice standard. These instances are deviations from the emission limits and work practice standards in this subpart. These deviations must be reported according to the requirements in §63.7550.

(c) During periods of startup, shutdown, and malfunction, you must operate in accordance with the SSMP as required in §63.7505(e).

(d) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the EPA Administrator's satisfaction that you were operating in accordance with your SSMP. The EPA Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

§ 63.7545 What notifications must I submit and when?

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply to you by the dates specified.

(c) As specified in §63.9(b)(4) and (b)(5), if you startup your new or reconstructed affected source on or after November 12, 2004, you must submit an Initial Notification not later than 15 days after the actual date of startup of the affected source.

§ 63.7550 What reports must I submit and when?

(a) You must submit each report in Table 9 to this subpart that applies to you.

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for your source in §63.7495.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.7495.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) The compliance report must contain the information required in paragraphs (c)(1) through (11) of this section.

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel and the total fuel usage amount with units of measure.

(5) A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during this test, if applicable.

(6) A signed statement indicating that you burned no new types of fuel. Or, if you did burn a new type of fuel, you must submit the calculation of chlorine input, using Equation 5 of §63.7530, that demonstrates that your source is still within its maximum chlorine input level established during the previous performance testing (for sources that demonstrate compliance through performance testing) or you must submit the calculation of HCl emission rate using Equation 9 of §63.7530 that demonstrates that your source is still meeting the emission limit for HCl emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel, you must submit the calculation of TSM input, using Equation 6 of §63.7530, that demonstrates that your source is still within its maximum TSM input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of TSM emission rate using Equation 10 of §63.7530 that demonstrates that your source is still meeting the emission limit for TSM emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel, you must submit the calculation of mercury input, using Equation 7 of §63.7530, that demonstrates that your source is still within its maximum mercury input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of mercury emission rate using Equation 11 of §63.7530 that demonstrates that your source is still meeting the emission limit for mercury emissions (for boilers or process heaters that demonstrate compliance through fuel analysis).

(7) If you wish to burn a new type of fuel and you can not demonstrate compliance with the maximum chlorine input operating limit using Equation 5 of §63.7530, the maximum TSM input operating limit using Equation 6 of §63.7530, or the maximum mercury input operating limit using Equation 7 of §63.7530, you must include in the compliance report a statement indicating the intent to conduct a new performance test within 60 days of starting to burn the new fuel.

(8) The hours of operation for each boiler and process heater that is subject to an emission limit for each calendar month within the semiannual reporting period. This requirement applies only to limited use boilers and process heaters.

(9) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in §63.10(d)(5)(i).

(10) If there are no deviations from any emission limits or operating limits in this subpart that apply to you, and there are no deviations from the requirements for work practice standards in this subpart, a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

(11) If there were no periods during which the CMSs, including CEMS, COMS, and CPMS, were out of control as specified in §63.8(c)(7), a statement that there were no periods during which the CMSs were out of control during the reporting period.

(e) For each deviation from an emission limitation and operating limit or work practice standard in this subpart occurring at an affected source where you are using a CMS to comply with that emission limit, operating limit, or work practice standard, you must include the information in paragraphs (c) (1) through (10) of this section and the information required in paragraphs (e) (1) through (12) of this section. This includes periods of startup, shutdown, and malfunction and any deviations from your site-specific monitoring plan as required in §63.7505(d).

(1) The date and time that each malfunction started and stopped and description of the nature of the deviation (*i.e.*, what you deviated from).

(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out of control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMSs downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.

(8) An identification of each parameter that was monitored at the affected source for which there was a deviation, including opacity, carbon monoxide, and operating parameters for wet scrubbers and other control devices.

(9) A brief description of the source for which there was a deviation.

(10) A brief description of each CMS for which there was a deviation.

(11) The date of the latest CMS certification or audit for the system for which there was a deviation.

(12) A description of any changes in CMSs, processes, or controls since the last reporting period for the source for which there was a deviation.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 9 to this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise

affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) If you operate a new gaseous fuel unit that is subject to the work practice standard specified in Table 1 to this subpart, and you intend to use a fuel other than natural gas or equivalent to fire the affected unit, you must submit a notification of alternative fuel use within 48 hours of the declaration of a period of natural gas curtailment or supply interruption, as defined in §63.7575. The notification must include the information specified in paragraphs (g)(1) through (5) of this section.

(1) Company name and address.

(2) Identification of the affected unit.

(3) Reason you are unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.

(4) Type of alternative fuel that you intend to use.

(5) Dates when the alternative fuel use is expected to begin and end.

§ 63.7555 What records must I keep?

(a) You must keep records according to paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, fuel analyses, or other compliance demonstrations, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each CEMS, CPMS, and COMS, you must keep records according to paragraphs (b)(1) through (5) of this section.

(1) Records described in §63.10(b)(2) (vi) through (xi).

(3) Previous (*i.e.,* superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Request for alternatives to relative accuracy test for CEMS as required in §63.8(f)(6)(i).

(5) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in Table 8 to this subpart including records of all monitoring data and calculated averages for applicable operating limits such as opacity, pressure drop, carbon monoxide, and pH to show continuous compliance with each emission limit, operating limit, and work practice standard that applies to you.

(d) For each boiler or process heater subject to an emission limit, you must also keep the records in paragraphs (d)(1) through (5) of this section.

(1) You must keep records of monthly fuel use by each boiler or process heater, including the type(s) of fuel and amount(s) used.

§ 63.7560 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.

§ 63.7565 What parts of the General Provisions apply to me?

Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

§ 63.7570 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities listed in paragraphs (b)(1) through (5) of this section are retained by the EPA Administrator and are not transferred to the State, local, or tribal agency, however, the U.S. EPA retains oversight of this subpart and can take enforcement actions, as appropriate.

(1) Approval of alternatives to the non-opacity emission limits and work practice standards in §63.7500(a) and (b) under §63.6(g).

(2) Approval of alternative opacity emission limits in §63.7500(a) under §63.6(h)(9).

(3) Approval of major change to test methods in Table 5 to this subpart under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(4) Approval of major change to monitoring under §63.8(f) and as defined in §63.90.

(5) Approval of major change to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

§ 63.7575 What definitions apply to this subpart?

Terms used in this subpart are defined in the CAA, in §63.2 (the General Provisions), and in this section as follows:

Annual capacity factor means the ratio between the actual heat input to a boiler or process heater from the fuels burned during a calendar year, and the potential heat input to the boiler or process heater had it been operated for 8,760 hours during a year at the maximum steady state design heat input capacity.

Boiler means an enclosed device using controlled flame combustion and having the primary purpose of recovering thermal energy in the form of steam or hot water. Waste heat boilers are excluded from this definition.

Deviation. (1) Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(i) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emission limit, operating limit, or work practice standard;

(ii) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(iii) Fails to meet any emission limit, operating limit, or work practice standard in this subpart during startup, shutdown, or malfunction, regardless or whether or not such failure is permitted by this subpart.

(2) A deviation is not always a violation. The determination of whether a deviation constitutes a violation of the standard is up to the discretion of the entity responsible for enforcement of the standards.

Federally enforceable means all limitations and conditions that are enforceable by the EPA Administrator, including the requirements of 40 CFR parts 60 and 61, requirements within any applicable State implementation plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 40 CFR 51.24.

Fossil fuel means natural gas, petroleum, coal, and any form of solid, liquid, or gaseous fuel derived from such materials.

Fuel type means each category of fuels that share a common name or classification. Examples include, but are not limited to, bituminous coal, subbituminous coal, lignite, anthracite, biomass, construction/demolition material, salt water laden wood, creosote treated wood, tires, residual oil. Individual fuel types received from different suppliers are not considered new fuel types except for construction/demolition material.

Gaseous fuel includes, but is not limited to, natural gas, process gas, landfill gas, coal derived gas, refinery gas, and biogas. Blast furnace gas is exempted from this definition.

Heat input means heat derived from combustion of fuel in a boiler or process heater and does not include the heat input from preheated combustion air, recirculated flue gases, or exhaust gases from other sources such as gas turbines, internal combustion engines, kilns, etc.

Industrial boiler means a boiler used in manufacturing, processing, mining, and refining or any other industry to provide steam, hot water, and/or electricity.

Large gaseous fuel subcategory includes any watertube boiler or process heater that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment or gas supply emergencies, has a rated capacity of greater than 10 MMBtu per hour heat input, and has an annual capacity factor of greater than 10 percent.

Natural gas means:

(1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or

(2) Liquid petroleum gas, as defined by the American Society for Testing and Materials in ASTM D1835–03a, “Standard Specification for Liquid Petroleum Gases” (incorporated by reference, see §63.14(b)).

Period of natural gas curtailment or supply interruption means a period of time during which the supply of natural gas to an affected facility is halted for reasons beyond the control of the facility. An increase in the cost or unit price of natural gas does not constitute a period of natural gas curtailment or supply interruption.

Responsible official means responsible official as defined in 40 CFR 70.2.

Temporary boiler means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another. A temporary boiler that remains at a location for more than 180 consecutive days is no longer considered to be a temporary boiler. Any temporary boiler that replaces a temporary boiler at a location and is intended to perform the same or similar function will be included in calculating the consecutive time period.

Watertube boiler means a boiler in which water passes through the tubes and hot gases of combustion pass over the outside surfaces of the tubes.

Work practice standard means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the CAA.

The following tables to Subpart DDDDD apply:

Table 1 to Subpart DDDDD of Part 63—Emission Limits and Work Practice Standards

As stated in § 63.7500, you must comply with the following applicable emission limits and work practice standards:

If your boiler or process heater is in this subcategory . . .	For the following pollutants . . .	You must meet the following emission limits and work practice standards
7. New or reconstructed large gaseous fuel.	Carbon Monoxide.....	400 ppm by volume on a dry basis corrected to 3 percent oxygen (30-day rolling average for units 100 MMBtu/hr or greater,

Table 8 to Subpart DDDDD of Part 63—Demonstrating Continuous Compliance

As stated in § 63.7540, you must show continuous compliance with the emission limitations for affected sources according to the following:

If you must meet the following operating limits or work practice standards . . .	You must demonstrate continuous compliance by . . .
7. Fuel Pollutant Content.....	b. Keeping monthly records of fuel use according to §63.7540(a).

Table 9 to Subpart DDDDD of Part 63—Reporting Requirements

As stated in § 63.7550, you must comply with the following requirements for reports:

You must submit a(n)	The report must contain . . .	You must submit the report . . .
1. Compliance report....	a. Information required in § 63.7550(c)(1) through (11); and	Semiannually according to the requirements in § 63.7550(b).
	b. If there are no deviations from any emission limitation(emission limit and operating limit)that applies to you and there are no deviations from the requirements for work practice standards in Table 8 to this subpart that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period. If there were no periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in § 63.8(c)(7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and	
	c. If you have a deviation from any emission limitation (emission limit and operating limit) or work practice standard during the reporting period, the report must contain the information in § 63.7550(d). If there were periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control, as specified in 63.8(c)(7),	

		the report must contain the information in § 63.7550(e); and	
		d. If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in § 63.10(d)(5)(i)	
2. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard.	a. Actions taken for the event; and		i. By fax or telephone within 2 working days after starting actions inconsistent with the plan; and
	b. The information in § 63.10(d)(5)(ii)		ii. By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authority.

Table 10 to Subpart DDDDD of Part 63—Applicability of General Provisions to Subpart DDDDD

As stated in § 63.7565, you must comply with the applicable General Provisions according to the following:

Citation	Subject	Brief description	Applicable
§ 63.1.....	Applicability...	Initial Applicability Determination; Applicability After Standard Established; Permit Requirements; Extensions, Notifications.	Yes.
§ 63.2.....	Definitions.....	Definitions for Part 63 standards.	Yes.
§ 63.3.....	Units and Abbreviations...	Units and abbreviations for part 63 standards.	Yes.
§ 63.4.....	Prohibited Activities.....	Prohibited Activities; Compliance date; Circumvention, Severability.	Yes.
§ 63.5.....	Construction/ Reconstruction.	Applicability; applications; approvals.	Yes.

§ 63.6(a).....	Applicability...	GP apply unless compliance extension;	Yes.
§ 63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed sources.	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for 112(f).	Yes.
§ 63.6(b)(5)....	Notification...	Must notify if commenced construction or reconstruction after proposal.	Yes.
§ 63.6(e)(1)-(2)	Operation & Maintenance.	Operate to minimize emissions at all times; and Correct malfunctions as soon as practicable; and Operation and maintenance requirements independently enforceable; information Administrator will use to determine if operation and maintenance requirements were met.	Yes.
§ 63.6(e)(3)....	Startup,Shutdown, and Malfunction Plan (SSMP).	Requirement for SSM and startup, shutdown, malfunction plan; and content of SSMP.	Yes.
§ 63.6(f)(1)....	Compliance Except During SSM.	Comply with emission standards at all times except during SSM.	Yes.
§ 63.6(f)(2)-(3)	Methods for Determining Compliance.	Compliance based on performance test, operation and maintenance plans, records, inspection.	Yes.
§ 63.6(g)(1)-(3)	Alternative.... Standard	Procedures for getting an alternative standard.	Yes.
§ 63.6(i)(1)-(14)	Compliance..... Extension	Procedures and criteria for Administrator to grant compliance extension.	Yes.
§ 63.6(j).....	Presidential Compliance Exemption.	President may exempt source category from requirement to comply with rule.	Yes.
§ 63.8(a)(1)....	Applicability of Monitoring Requirements.	Subject to all monitoring requirements in standard.	Yes.
§ 63.8(a)(2)....	Performance Specifications	Performance Specifications in appendix B of part 60 apply.	Yes.
§ 63.8(b)(1) (i)-(ii)	Monitoring.....	Must conduct monitoring according to standard unless Administrator approves alternative.	Yes.

§ 63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems.	Specific requirements for installing monitoring systems; and must install on each effluent before it is combined and before it is released to the atmosphere unless Administrator approves otherwise; and if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup.	Yes.
§ 63.8(c)(1)....	Monitoring System Operation and Maintenance.	Maintain monitoring system in a manner consistent with good air pollution control practices.	Yes.
§ 63.8(c)(1)(i)	Routine and Predictable SSM.	Maintain and operate CMS according to § 63.6(e)(1).	Yes.
§ 63.8(c)(1)(ii)	SSM not in SSMP	Must keep necessary parts available for routine repairs of CMSs.	Yes.
§ 63.8(c)(1)(iii)	Compliance with Operation and Maintenance Requirements.	Must develop and implement an SSMP for CMSs.	Yes.
§ 63.8(c)(2)-(3)	Monitoring System Installation.	Must install to get representative emission and parameter measurements; and must verify operational status before or at performance test.	Yes.
§ 63.8(c)(7)-(8)	Continuous Monitoring Systems Requirements.	Out-of-control periods, including reporting.	Yes.
§ 63.8(d)....	Continuous Monitoring Systems Quality Control.	Requirements for continuous monitoring systems quality control, including calibration, etc.; and must keep quality control plan on record for the life of the affected source. Keep old versions for 5 years after revisions.	Yes.
§ 63.8(e)....	Continuous monitoring systems Performance Evaluation.	Notification, performance evaluation test plan, reports.	Yes.
§ 63.8(f)(1)-(5)	Alternative Monitoring Method.	Procedures for Administrator to approve alternative monitoring.	Yes.
§ 63.9(a)....	Notification Requirements.	Applicability and State Delegation.	Yes.

§ 63.9(b)(1)-(5)	Initial Notifications	Submit notification 120 days after effective date; and Notification of intent to construct/reconstruct; and Notification of commencement of construct/reconstruct; Notification of startup; and Contents of each.	Yes.
§ 63.9(c)....	Request for Compliance Extension.	Can request if cannot comply by date or if installed BACT/LAER.	Yes.
§ 63.9(g)....	Additional Notifications When Using Continuous Monitoring Systems.	Notification of performance evaluation; and notification using continuous opacity monitoring system data; and notification that exceeded criterion for relative accuracy.	Yes.
§ 63.9(h)(1)-(6)	Notification of Compliance Status.	Contents; and due 60 days after end of performance test or other compliance demonstration, and when to submit to Federal vs. State authority.	Yes.
§ 63.9(i)....	Adjustment of Submittal Deadlines.	Procedures for Administrator to approve change in when notifications must be submitted.	Yes.
§ 63.9(j)....	Change in Previous Information.	Must submit within 15 days after the change.	Yes.
§ 63.10(a)....	Recordkeeping/ Reporting	Applies to all, unless compliance extension; and when to submit to Federal vs. State authority; and procedures for owners of more than 1 source.	Yes.
§ 63.10(b)(1)	Recordkeeping/ Reporting	General Requirements; and keep all records readily available and keep for 5 years.	Yes.
§ 63.10(b)(2) (i)-(v)	Records related to Startup, Shutdown, and Malfunction.	Occurrence of each of operation (process, equipment); and occurrence of each malfunction of air pollution equipment; and maintenance of air pollution control equipment; and actions during startup, shutdown, and malfunction.	Yes.
§ 63.10(b)(2) (vi) and (x-xi)	Continuous monitoring systems Records.	Malfunctions, inoperative, out-of-control; and calibration checks; and adjustments, maintenance.	Yes.

§ 63.10(b)(2)... (vii)-(ix)	Records.....	Measurements to demonstrate compliance with emission limitations; and performance test, performance evaluation, and visible emission observation results; and measurements to determine conditions of performance tests and performance evaluations.	Yes.
§ 63.10(b)(2)(xii)	Records...	Records when under waiver.	Yes.
§ 63.10(b)(2)(xiv)	Records...	All documentation supporting Initial Notification and Notification of Compliance Status.	Yes.
§ 63.10(b)(3)	Records...	Applicability Determinations.	Yes.
§ 63.10(c)(1), (5)-(8),(10)-(15)	Records...	Additional Records for continuous monitoring systems.	Yes.
§ 63.10(d)(1)...	General Reporting Requirements.	Requirement to report.....	Yes.
§ 63.10(d)(2)...	Report of Performance Test Results.	When to submit to Federal or State authority.	Yes.
§ 63.10(d)(4)...	Progress Reports	Must submit progress reports on schedule if under compliance extension.	Yes.
§ 63.10(d)(5)...	Startup, Shutdown, and Malfunction Reports.	Contents and submission...	Yes.
§ 63.10(e)(1)(2)	Additional continuous monitoring systems Reports.	Must report results for each CEM on a unit; and written copy of performance evaluation; and 3 copies of continuous opacity monitoring system performance evaluation.	Yes.
§ 63.10(f)...	Waiver for Recordkeeping/ Reporting.	Procedures for Administrator to waive.	Yes.
§ 63.12....	Delegation	State authority to enforce standards.	Yes.
§ 63.13....	Addresses	Addresses where reports, notifications, and requests are sent.	Yes.
§ 63.14....	Incorporation by Reference	Test methods incorporated by reference.	Yes.
§ 63.15....	Availability of Information.	Public and confidential Information.	Yes.

D.4.16 One Time Deadlines Relating to NESHAP 63.7480, Subpart DDDDD

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Compliance with the Subpart	40 CFR 63.7495(a)	Package Boiler #1	Upon startup
Develop and submit to the EPA for approval a site-specific monitoring plan (SSMP)	40 CFR 63.7505(d)(1)	Package Boiler #1	at least 60 days before the initial performance evaluation of the CMS
Demonstrate initial compliance with the emission limits and work practice standards	40 CFR 63.7510(g)	Package Boiler #1	no later than 180 days after startup
Submit all of the notifications in §§63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply by the dates specified.	40 CFR 63.7545(a)	Package Boiler #1	Dates specified in he above Table 10 to Subpart DDDDD of Part 63, applicable General Provisions.
Submit Initial Notification	40 CFR 63.7545(c)	Package Boiler #1	not later than 15 days after the actual startup

The remainder of the original permit has been re-paginated and the Table of Contents has been updated accordingly. Therefore, the modified part of the permit will be the entire permit. The original expiration date does not change due to this modification.

Conclusion and Recommendation

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 089-22309-00203 and Significant Permit Modification 089-22333-00203. The staff recommends to the Commissioner that this Part 70 Significant Source Modification and Significant Permit Modification be approved.

Indiana Department of Environmental Management
Office of Air Quality

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

Source Name:	Cargill, Inc.
Source Location:	1100 Indianapolis Boulevard, Hammond, Indiana 46320
County:	Lake County
SIC Code:	2046 – Wet Corn Milling
Operation Permit No.:	T089-7994-00203, issued on June 28, 2004
Significant Source Modification No.:	089-22309-00203
Significant Permit Modification No.:	089-22333-00203
Permit Reviewer:	Ronald Holder, HDEM

On July 17, 2006, the Hammond Department of Environmental Management (HDEM) had a notice published in the Hammond Times, Hammond, Indiana, stating that Cargill, Inc. had applied for a modification to their Part 70 Permit to install a new boiler and retire some existing boilers. The notice also stated that HDEM proposed to issue the modification approval and permit modification for this operation 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.

The OAQ prefers that the Technical Support Document (TSD) reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

Therefore, the original TSD is not changed, but is updated as follows:

On August 7, 2006, a temporary emergency rule took effect re-designating Lake County to attainment for the sulfur dioxide standard and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

On page 1 of 41, in the TSD, the County Attainment Status table is updated as follows:

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM10	Attainment
PM2.5	Nonattainment
SO_2	~~Nonattainment~~ **Attainment**
NO_2	Attainment
~~1-hour Ozone~~	~~Severe Nonattainment~~
8-hour Ozone	Moderate Nonattainment
CO	Attainment
Lead	Attainment

On page 2 of 41, in the TSD, the County Attainment Status language is updated as follows

~~(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 January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standard. Lake County has been designated as severe non-attainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.~~

~~(2) VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as non-attainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.~~

(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. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(c) Lake County has been classified as attainment or unclassifiable for PM10, CO**, SO2**, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(d) Lake County has been classified as nonattainment for PM2.5 and ~~SO_2~~. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

On page 3 of 41, in the TSD, the language in the discussion of Source Status is updated as follows:

(b) This existing source is a major stationary source under Emission Offset (326 IAC 2-3) because PM2.5 (as PM10), ~~SO_2~~, and VOC, non-attainment regulated pollutants, are emitted at a rate of 100 tons per year or more.

Because of the above updates, the following revisions were made to the permit (bolded language has been added, the language with a line through it has been deleted).

On page 7 of 102, in Section A.1, the General Information is revised as follows:

Source Location Status:	Nonattainment for ozone under the 8-hour standard Nonattainment for ~~ozone under the 1-hour standard~~ **PM2.5** ~~Nonattainment for SO2,~~ Attainment for PM10, NOx, CO, **SO2,** and Lead
Source Status:	Part 70 Permit Program Major Source, under PSD or Emission Offset Rules; ~~and Nonattainment NSR~~ Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

For clarification, only applicable requirements of the NSPS 40 CFR 60, Subpart Db, and the NESHAP 40 CFR 63, Subpart DDDDD, were included in the permit. Non-applicable requirements were not specified.

Upon further review, Condition D.4.16 has been corrected as follows:

On page 80 of 102, in Condition D.4.16, **One Time Deadlines Relating to NESHAP 63.7480, Subpart DDDDD, the acronym ~~(SSMP)~~ is deleted from the Requirement column in the table and the word "~~he~~" in the Deadline column is corrected to "the".**

The following three (3) comments were received from the Cargill, Inc. in Hammond.
The response and, if necessary, revision to the permit follows the comment.

Comment 1.

Cargill requests that Section C.14(c) of No: 089-22333-00203, relating to Maintenance of Continuous Emission Monitoring Equipment, be removed in its entirety. Our technical and legal analysis including discussions with David Cline, Chief of IDEM's Compliance Data Section indicate that it is not possible for a replacement monitor to properly be brought on line in four hours as requested in the draft permit nor is it required under state or federal rules. It takes time to diagnose issues, warm up replacement instrument and calibrate the instrument in accordance with IDEM guidance documents and therefore, compliance with this provision, as written, would essentially require the installation, operation and maintenance of a duplicate monitoring device and potentially double the cost of monitoring at our facility. We don't believe this is your intention therefore Cargill proposes that the CEMS operational requirements already cited in the permit [40 CFR 60 Subpart Db] sufficiently address allowable down time for maintenance of continuous monitoring equipment without requiring overly burdensome and costly duplicative monitoring and supports a more level playing field across the industry.

If Section C.14(c) cannot be removed in its entirety, Cargill requests IDEM address CEM operation by requiring parametric monitoring instead of operation of a replacement (duplicate) monitor. Because combustion control practices and fuel use are the only sources of variability impacting NOx and CO emission rates of this boiler, during any CEM equipment down times exceeding four (4) hours, Cargill could utilize operational control devices to monitor fuel use rates and exhaust gas oxygen concentrations and maintain these parameters within predetermined ranges. These parametric monitoring ranges would be established by reviewing fuel use and exhaust gas oxygen concentration data during periods when the continuous monitoring equipment demonstrates compliance with applicable NOx and CO limits as specified in the permit, thus effectively giving assurance of compliance during CEM maintenance periods exceeding four hours.

Response to Comment 1.

IDEM and HDEM believe the existing Federal requirement in the permit is sufficient. Subpart Db, 60.48b(f) on page 59 states – "When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days". Other suggested parametric monitoring is already being performed to meet operational, record keeping and/or reporting requirements. Section (c) of Condition C.14 can be removed as follows:

~~(c) Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of the shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.~~

Section ~~(d)~~ of Condition C.14 is changed to **(c).**

Comment 2.

On July 28, 2004, Cargill filed an appeal to its Part 70 permit T089-7994-00203 (the permit was issued on June 28, 2004). The issues raised in that appeal (Cause No. 04-A-J-3395) are unrelated to the proposed Modification. Cargill's appeal is still pending with the Indiana Office of Environmental Adjudication. While the proposed Modification purports only to modify Cargill's initial Part 70 permit, the document circulated for public comment appears to be a new permit. Specifically, the front page of No. 089-22333-00203 states that the Modification affects the "Entire Permit". The issuance of a new permit could be interpreted to require Cargill to file another appeal on the issues covered in the pending case to preserve its rights. Cargill requests that IDEM and HDEM provide guidance on the effect of the Modification on Cargill's appeal proceedings.

Response to Comment 2.

The issuance of this modification does not affect Cargill's appeal proceedings. Condition B.2 states:

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.9]

> This permit (T089-7994-00203) 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.

Note that the reference is to the original issued Part 70 permit number (T089-7994-00203). The mention of the modification affecting the “Entire Permit” is in reference to the “pages affected”. All pages (the entire permit) were affected because the large amount of material that was added to the permit necessitated the re-pagination the entire permit.

Some of the problems relating to the original appeal may have been satisfied or may no longer apply because of some universal changes that have been made to the B and C sections of the permit since the original issuance.

Comment 3.

On March 3, 2006, the Federal District Court in Minnesota entered a consent decree between Cargill, Incorporated, U.S. EPA, the State of Indiana and other participating States and agencies. U.S. et al. v. Cargill, Incorporated, Civil Action No. 05-2037JMR/FLN (the "Consent Decree"). Paragraph 77(a) of the Consent Decree states that Cargill shall comply with the specific emission reduction requirements, emission limits, operating parameters, monitoring requirements and record keeping requirements specified in the Decree, "which shall supersede and control over corresponding terms and conditions of any air quality control permits existing as of the date of entry of this Consent Decree." The Modification once issued should not supersede the conditions of the Consent Decree. Cargill requests that the Modification state that "the Consent Decree is hereby incorporated in its entirety into this permit. During the effective period of the Consent Decree, Cargill shall comply with the specific emission reduction requirements, emission limits, operating parameters, monitoring requirements and recordkeeping requirements specified in the Consent Decree " and applicable to this facility. These requirements shall supersede and control over corresponding terms and conditions of this permit. "

Response to Comment 3.

The Modification does not supersede or conflict with any of the conditions of the Consent Decree. IDEM, however, cannot state in the permit that "the Consent Decree is hereby incorporated in its entirety into the permit” because the Consent Decree also requires that Cargill submit the appropriate and timely application requests to the permitting authorities for any modifications or changes required in the decree. The proposed modification is independent of the Consent Decree.

Cargill, Inc.
1100 Indianapolis Blvd.
Hammond, Indiana 46320

Significant Source Modification 089-22309-00203
Significant Permit Modification 089-22333-00203

install new Package Boiler #1
remove existing Boiler #6

CALCULATIONS BY: Ronald Holder

YEAR OF DATA: review NO. OF POINTS: 1

NOTES
EF: EMISSION FACTOR
CE: CONTROL EFFICIENCY
MDR: MAXIMUM DESIGN RATE
MDC: MAXIMUM DESIGN CAPACITY
Ts: STACK DISCHARGE TEMPERATURE
UNITS FOR EMISSIONS ARE IN (TPY) EXCEPT WHERE GIVEN

New Boiler Potential

Package Boiler #1 (89-03-U) | Combustion Engineering Boiler | MDC (mmBtu/hr): **274** | HEAT CONTENT (Btu/cft): 1026 | STACK ID (DIAM:HEIGHT): (4.6': 89')
(Natural Gas Combustion) | Type 38VP2180 - Serial Number 65497-2 | MDR (mmcft/hr): 0.2671 | QTY BURNED (mmcft/yr): N/A | FLOWRATE (ACFM): 69,137
CNTRL DEV: NONE | NG only | Ts(°F): 286

PERMITTED OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE	
SCC NO. 1-02-006-01			BEFORE CONTROL			AFTER CONTROL				
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)
PM	7.6	0	2.030	48.711	**8.890**	2.030	8.890	0.0048	0.00	0.00
PM10	7.6	0	2.030	48.711	**8.890**	2.030	8.890	0.0048	**4.21**	18.44
SOx	0.6	0	0.160	3.846	**0.702**	0.160	0.702	N/A	0.00	0.00
NOx	102	0	27.240	653.754	**119.310**	27.240	119.310	N/A	**27.40**	120.01
VOC	5.5	0	1.469	35.251	**6.433**	1.469	6.433	N/A	0.00	0.00
CO	84	0	22.433	538.386	**98.255**	22.433	98.255	N/A	0.00	0.00
LEAD	0.0005	0	0.000	0.003	**0.0006**	0.000	0.001	N/A	0.00	0.00

low NOx burner — PM10 — 326 IAC 6.8-1-2(b)(3) - 0.01 gr/dscf
NOx emission factor based on NSPS NOx limitation of 0.10 lbs/mmBtu. — 40 CFR 60, Subpart Db — NOx — § 60.44b(a) - 0.10 lbs/mmBtu
0.10 lbs/mmBtu x 1020 Btu/cft = 102 lbs/mmcft — 40 CFR 63, Subpart DDDDD — CO — 400 ppm (CEMS)

Boiler #6 past actual

Boiler #6 (10-03-U) | MDC (mmBtu/hr): **187** | HEAT CONTENT (Btu/cft): 1020 | STACK ID (DIAM:HEIGHT): (6': 165')
(Natural Gas Combustion) | MDR (mmcft/hr): 0.1833 | QTY BURNED (mmcft/yr): 1100 | FLOWRATE (ACFM): 111,457
CNTRL DEV: NONE | Ts(°F): 350

PERMITTED OPERATING HRS: **6000** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE	
SCC NO. 1-02-006-01			BEFORE CONTROL			AFTER CONTROL				
POLLUTANT	EF(lbs/mmcft)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)
PM	7.6	0	1.393	33.440	**4.180**	1.393	4.180	0.0022	0.000	0.000
PM10	3	0	0.550	13.200	**1.650**	0.550	1.650	0.0009	0.000	0.000
SOx	0.6	0	0.110	2.640	**0.330**	0.110	0.330	N/A	0.000	0.000
NOx	280	0	51.333	1,232.000	**154.000**	51.333	154.000	N/A	0.000	0.000
VOC	5.5	0	1.008	24.200	**3.025**	1.008	3.025	N/A	0.000	0.000
CO	84	0	15.400	369.600	**46.200**	15.400	46.200	N/A	0.000	0.000
LEAD	0.0005	0	0.000	0.002	**0.0003**	0.000	0.000	N/A	0.000	0.000

Past actual data based on 24-month high natural gas usage in past 10 years for existing Boiler #6.
Nov 1999 to Oct 2001 - approximately equivalent to 6000 hours of operation

Contemporaneous Decrease

PM	**4.180**
PM10	**1.650**
SOx	**0.330**
NOx	**154.000**
VOC	**3.025**
CO	**46.200**
Lead	**0.000**

Removal of Boiler #6

Part 70 permit level determination
PTE of new emission unit (Package Boiler #1)

PM	**8.890**
PM10	**8.890**
SOx	**0.702**
NOx	**119.310**
VOC	**6.433**
CO	**98.255**
Lead	**0.001**

326 IAC 2-7-10.5(f)
significant source
modification
NOx > 25 tpy

Cargill Hammond Plant - No. 2 Boiler

24-Month High - 10yrs back (Jan 95 - Dec 96)

Pollutant	Emission Factor (lb/MMcf)	Gas Usage (MMcf/yr)	Emissions (Tons/yr)	Annual Hours Operation Allowed by Decree	Emission Factor Allowed by Decree	Heat Input Capacity (MMBTU/hr)	Annual Gas Usage Allowed (MMcf/yr)	Annual Emissions Allowed by Decree (tons/yr)	Creditable Emissions (tons/yr)
VOC	5.50	620.24	1.706	8,760	5.50	160	1374.12	3.779	1.706
NO_x	153.00	620.24	47.449	8,760	61.20	160	1374.12	42.048	42.048
Lead	0.0005	620.24	1.551E-04	8,760	0.0005	160	1374.12	3.435E-04	1.551E-04
Mercury	0.00026	620.24	8.063E-05	8,760	0.00026	160	1374.12	1.786E-04	8.063E-05
SO_2	0.60	620.24	0.186	8,760	0.60	160	1374.12	0.412	0.186
CO	84.00	620.24	26.050	8,760	84.00	160	1374.12	57.713	26.050
Particulates	7.60	620.24	2.357	8,760	7.60	160	1374.12	5.222	2.357
PM_{10}	3.06	620.24	0.949	8,760	3.06	160	1374.12	2.102	0.949

Emission factors from AP-42, Feb. 1998, Tables 1.4-1 through 1.4-4.

PM10 emission factor based on 0.003 lb/MMBtu permit limit. Assume all PM is PM10.

Manufacturer's (Coen) guaranteed NOx emission factor, 0.15 lb/MMBtu ========> 153 lbs/MMcf

Cargill Hammond Plant - No. 8 Boiler

24-Month High - 10yrs back (May 00 - April 02)

Pollutant	Emission Factor (lb/MMcf)	Gas Usage (MMcf/yr)	Emissions (Tons/yr)	Annual Hours Operation Allowed by Decree	Emission Factor Allowed by Decree	Heat Input Capacity (MMBTU/hr)	Annual Gas Usage Allowed (MMcf/yr)	Annual Emissions Allowed by Decree (tons/yr)	Creditable Emissions (tons/yr)
VOC	5.50	483.22	1.329	1,800	5.50	120	211.76	0.582	0.582
NO_x	280.50	483.22	67.772	1,800	280.50	120	211.76	29.700	29.700
Lead	0.0005	483.22	1.208E-04	1,800	0.0005	120	211.76	5.294E-05	5.294E-05
Mercury	0.00026	483.22	6.282E-05	1,800	0.00026	120	211.76	2.753E-05	2.753E-05
SO_2	0.60	483.22	0.145	1,800	0.60	120	211.76	0.064	0.064
CO	84.00	483.22	20.295	1,800	84.00	120	211.76	8.894	8.894
Particulates	7.60	483.22	1.836	1,800	7.60	120	211.76	0.805	0.805
PM_{10}	3.06	483.22	0.739	1,800	3.06	120	211.76	0.324	0.324

Emission factors from AP-42, Feb. 1998, Tables 1.4-1 through 1.4-4.

PM10 emission factor based on 0.003 lb/MMBtu permit limit. Assume all PM is PM10.

Manufacturer's (Coen) guaranteed NOx emission factor, 0.275 lb/MMBtu ========> 280.5 lbs/MMcf

Cargill Hammond Plant - No. 10 Boiler

24-Month High - 10yrs back (Jan 95 - Dec 96)

Pollutant	Emission Factor (lb/MMcf)	Gas Usage (MMcf/yr)	Emissions (Tons/yr)	Annual Hours Operation Allowed by Decree	Emission Factor Allowed by Decree	Heat Input Capacity (MMBTU/hr)	Annual Gas Usage Allowed (MMcf/yr)	Annual Emissions Allowed by Decree (tons/yr)	Creditable Emissions (tons/yr)
VOC	5.50	559.44	1.538	1,800	5.50	120	211.76	0.582	0.582
NO_x	280.50	559.44	78.461	1,800	280.50	120	211.76	29.700	29.700
Lead	0.0005	559.44	1.399E-04	1,800	0.0005	120	211.76	5.294E-05	5.294E-05
Mercury	0.00026	559.44	7.273E-05	1,800	0.00026	120	211.76	2.753E-05	2.753E-05
SO_2	0.60	559.44	0.168	1,800	0.60	120	211.76	0.064	0.064
CO	84.00	559.44	23.496	1,800	84.00	120	211.76	8.894	8.894
Particulates	7.60	559.44	2.126	1,800	7.60	120	211.76	0.805	0.805
PM_{10}	3.06	559.44	0.856	1,800	3.06	120	211.76	0.324	0.324

Emission factors from AP-42, Feb. 1998, Tables 1.4-1 through 1.4-4.

PM10 emission factor based on 0.003 lb/MMBtu permit limit. Assume all PM is PM10.

Manufacturer's (Coen) guaranteed NOx emission factor, 0.275 lb/MMBtu ========> 280.5 lbs/MMcf