



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: November 30, 2011

RE: Cargill, Inc. / 089-31149-00203

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

Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

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

Enclosures
FNPER-AM.dot12/3/07



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Mr. Michael Golando
Cargill, Inc.
1100 Indianapolis Boulevard
Hammond, Indiana 46320

November 30, 2011

Re: 089-31149-00203
Administrative Amendment to:
Part 70 Operating Permit No.089-27009-00203

Dear Mr. Golando:

Cargill, Inc. was issued Part 70 operating permit 089-27009-00203 on June 13, 2011 for a wet corn mill. An application for the following modification of the existing bin system in the starch production area was received on November 15, 2011:

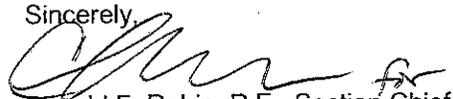
Cargill will be eliminating the Starch Milling Units Nos. 1 and 2 (ID Nos. 59-01S and 59-02-S) and their associated dust collectors (CE59-01-S and CE59-02-S). This modification will allow the dried starch from the No. 2 Starch Dryer to transfer directly to Cornstarch Storage Bin No. 23 (ID No. 120-04-S). The modification will require the increase in the blower output to Bin 23 and will result in an increase in the airflow into the cornstarch storage bin.

Pursuant to the provisions of 326 IAC 2-7-11, the permit is hereby administratively amended as described in the attached Technical Support Document.

All conditions of the permit shall remain unchanged and in effect. Please find a copy of the revised Part 70 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 Aida De Guzman at (800) 451-6027, press 0 and ask for extension (3-4972), or dial (317) 233-4972.

Sincerely,


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

Attachments

APD

cc: Lake County
Lake County Health Department
Compliance and Enforcement Branch
Permit Administration Support Section





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Part 70 Operating Permit Renewal OFFICE OF AIR QUALITY

Cargill, Inc.
1100 Indianapolis Blvd
Hammond, Indiana 46320

(herein known as the Permittee) is hereby authorized to construct and 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 Renewal No.: T089-27009-00203	
Issued by: Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: June 13, 2011 Expiration Date: June 13, 2016
First Administrative Amendment No.: T089-31149-00203	
Issued by:  Donald F. Robin, P.E., Section Chief Permits Branch Office of Air Quality	Issuance Date: November 30, 2011 Expiration Date: June 13, 2016

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Certification
Emergency Occurrence Report
Quarterly Report
Quarterly Deviation and Compliance Monitoring Report

SECTION A SOURCE SUMMARY

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

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

The Permittee owns and operates a stationary wet corn milling facility.

Source Address:	1100 Indianapolis Blvd, Hammond, Indiana 46320
General Source Phone Number:	(219)659-2000
SIC Code:	2046
County Location:	Lake
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Part 70 Operating Permit Program Major Source, under PSD and Nonattainment NSR programs 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. Anaerobic Wastewater Treatment Process

- (a) One (1) anaerobic wastewater treatment process installed in July 1995. Biogas is generated in the wastewater treatment plant by anaerobic reaction. The biogas can be controlled by:
 - (1) Diverted to a plant process burner for energy recovery, which is the normal scenario; or
 - (2) One (1) Biogas Flare (Unit ID 800-05-E), installed in July 1995. The biogas flare converts the hydrogen sulfide (H₂S) in the biogas to sulfur dioxide (SO₂). The biogas flare exhausts to stack ID S800-05-E.
- (b) Two (2) wastewater treatment process centrifuges (WWTP - North and WWTP - South), installed in July 1995. The centrifuges dewater the excess biomass from wastewater treatment process. Exhaust from the process vents inside the WWTP building.

II. Alternate Carbohydrate Area

- (c) Alternate Carbohydrate Mill Feed Hopper (Unit 127-30-B), installed in May 1993 and repurposed in 2008, with a maximum capacity of 0.836 tons per hour. Particulate emissions are controlled by dust collector (CE127-30-B) that exhausts to stack S127-30-B.

- (d) No. 1 and No. 2 Alternate Carbohydrate Storage Bins (Unit ID 127-28-B and 127-29-B), installed in May 1993 and repurposed in 2008, each with a maximum throughput of 15 tons per hour. Carbohydrate is pneumatically conveyed to these hoppers equipped with bag filter dust collectors (CE127-28-B and CE127-29-B) that exhaust to stacks S127-28-B and S127-29-B.
- (e) No. 1 and No. 2 Vacuum Cleaner Systems (Unit ID 127-21-B and 127-22-B), installed in May 1993, each with a maximum throughput of 0.3 tons per hour. These systems are for building dust. Particulate emissions are controlled by dust collectors that exhaust to stacks S127-21-B and S127-22-B.

III. Grind and Feedhouse Area

- (f) Gluten Dryer System (Unit ID 121-01-G), installed in March 1995. Gluten meal is fed to a 12.5 MMBtu/hr natural and bio gas-fired ring dryer at a maximum throughput of 15,800 lb/hr. Particulate emissions are controlled by wet scrubber (CE121-01-G) that exhausts to stack S121-01-G.
- (g) No. 2 Gluten Dryer (Unit ID 121A-01-G), approved for construction in 2008. Gluten meal is fed to a 17 MMBtu/hr natural and bio gas-fired ring dryer at a maximum throughput of 19,700 lb/hr. Particulate emissions are controlled by two (2) wet scrubbers operating in series, one venturi-type followed by one tray-type scrubber (collectively identified as Unit ID CE121A-01-G) that exhausts to stack S121A-01-G.
- (h) One (1) Germ Dryer/Cooler (Unit ID 203-01-G), approved for construction in 2008. Corn germ is fed to a 30 MMBtu/hr natural and bio gas-fired germ dryer and cooler at a maximum throughput of 38,600 lb/hr. Particulate emissions are controlled by one (1) wet scrubber (Unit ID CE203-01-G) that exhausts to stack S203-01-G.
- (i) No. 1 Bran Bunker (Unit ID 89-06-G), approved for construction in 2008, with a maximum throughput rate of 107,433 tons per year, using a bin vent filter (Unit ID CE089-06-G) with an outlet grain loading of 0.01 gr/dscf as control, and exhausting to stack S89-06-G.
- (j) No. 2 Bran Bunker (Unit ID 89-07-G), approved for construction in 2008, with a maximum throughput rate of 107,433 tons per year, using a bin vent filter (Unit ID CE89-07-G) with an outlet grain loading of 0.01 gr/dscf as control, and exhausting to stack S89-07-G.
- (k) One (1) Bran Conveyor System (Unit ID 89-08-G), approved for construction in 2008, with a maximum throughput rate of 107,433 tons per year, using existing scrubber CE89-01-G (constructed in 1995) as control, and exhausting to stack S89-01-G.
- (l) One (1) Bran Preweigh Hopper (Unit ID 89-09-G), approved for construction in 2008, with a maximum throughput rate of 107,433 tons per year, using a bin vent filter (Unit ID CE89-09-G) with an outlet grain loading of 0.01 gr/dscf as control, and exhausting to stack S89-09-G.
- (m) Fiber Drying Equipment (Unit ID 89-01-G), installed in October 1995. Wet fiber is fed to this 78 MMBtu/hr natural gas-fired dryer at a maximum throughput of 79,695 lb/hr. Particulate matter is controlled by a scrubber (CE89-01-G) that exhausts to stack S89-01-G.

- (n) Germ Dryer/Cooler (Unit ID 124A-01-G), installed in November 1994. Corn germ is fed to this 12.9 MMBtu/hr natural and bio gas-fired germ dryer and cooler at a maximum throughput of 16,580 lb/hr. Particulate emissions are controlled by one (1) scrubber (CE124A-01-G) that exhausts to stack S124A-01-G.
- (o) Central Vacuum Loadout (Unit ID 200-07-G), installed in October 2000, with a maximum throughput of 100 lb/hr. Particulate emissions are controlled by a dust collector (CE200-07-G) that exhausts to stack S200-07-G.
- (p) Germ Tank 1310 (Unit ID 200-01-G), installed in October 2000, with a maximum throughput of 80,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-01-G) that exhausts to stack S200-01-G.
- (q) Gluten Tank 1410 (Unit ID 200-02-G), installed in October 2000, with a maximum throughput of 80,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-02-G) that exhausts to stack S200-02-G.
- (r) Corn Screenings Silo (Unit ID 200-06-G), installed in October 2000, with a maximum throughput of 11,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-06-G) that exhausts to stack S200-06-G.
- (s) Gluten Tank 1010 (Unit ID 200-04-G), installed in October 2000, with a maximum throughput of 21,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-04-G) that exhausts to stack S200-04-G.
- (t) Germ Tank 1110 (Unit ID 200-03-G), installed in October 2000, with a maximum throughput of 30,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-03-G) that exhausts to stack S200-03-G.
- (u) Bulk Loadout (Unit ID 200-05-G), installed in October 2000, with a maximum throughput of 95,900 lb/hr. Particulate emissions are controlled by a dust collector (CE200-05-G) that exhausts to stack S200-05-G.
- (v) Corn Dump Pit (Unit ID 140-05-G), installed in December 1995, with a maximum throughput of 840 tons/hr. Particulate emissions are controlled by filter baghouse (CE140-05-G) that exhausts to stack S140-05-G.
- (w) Corn Elevator Conveying (Unit ID 140-07-G), installed in December 1995, with a maximum throughput of 140 tons/hr. 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.
- (x) Corn Receiving and Storage, installed in December 1995. This system includes six Storage Bins, each with its own bin vent for control of particulate emissions, and each with a maximum throughput of 420 ton/hr:
 - (1) Bin #1: Unit ID 140-01-G
 - (2) Bin #2: Unit ID 140-02-G
 - (3) Bin #3: Unit ID 140-03-G
 - (4) Bin #4: Unit ID 140-04-G
 - (5) Bin #5: Unit ID 33-01-G
 - (6) Bin #6: Unit ID 33-02-G

- (y) Gravity Take-up Conveyor (Corn Scale) (Unit ID 140-06-G), installed in December 1995, with a maximum throughput of 140 ton/hr. 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.
- (z) Corn Cleaner (Unit ID 33-03-G), installed in December 1995, with a maximum throughput of 140 ton/hr. Corn passes through mechanical cleaners. Particulate emissions are controlled by a filter baghouse (CE33-03-G) that exhausts to stack S33-03-G.
- (aa) Corn Screenings System (Unit ID 30-16-G), installed in July 1976, with a maximum throughput of 8.4 ton/hr. This system includes a dirt storage silo equipped with bag filter collector (CE30-16-G) that exhausts to stack S30-16-G.
- (bb) Three (3) Gluten Filters, installed in December 1995. Gluten slurry is applied to the surface of a filter drum where an internal vacuum on the drum removes moisture from the slurry. The Gluten is then removed from the drum by a roller. Exhaust from the removal process is collected by a hood and exhausted from the building.
- (cc) Three (3) Gluten Vacuum Pumps, installed in December 1995. The pumps create the vacuum used to remove moisture from the gluten slurry on the gluten filter. Exhaust from the pumps is vented from the building.
- (dd) Twenty-four (24) steep tanks (Unit ID Steephouse - Grind 1), consisting of 21 steep tanks installed prior to 1973 and 3 steep tanks installed in December 1995. The steep tanks contain a mildly acidic solution to soften the corn prior to milling. Tanks are individually vented and have only working/breathing losses.

IV. Utility Area

The Utility area includes the following boiler used to supply steam for plant processes.

- (ee) 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.

V. Refinery Area

- (ff) Corn Syrup Solids Manufacturing System #2 (Unit ID 18-03-R), installed in July 1992, with a maximum throughput of 3.0 ton/hr. 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.
- (gg) Corn Syrup Spray Dryer #4 (Unit ID 100-03-R), installed in April 1992. Corn syrup is fed to a dryer at a maximum throughput of 4.8 ton/hr. 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.
- (hh) Corn Syrup Spray Dryer/Cooler System #3 (Unit ID 100-01-R), installed in July 1987. Corn syrup is fed to a dryer at a maximum rate of 4.8 ton/hr. 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.

- (ii) Activated Carbon Regeneration Furnace #2 (Unit ID 104-01-R), installed in July 1995. Spent carbon is regenerated in this 13.2 MMBtu/hr natural gas-fired furnace at a maximum throughput of 1.146 ton/hr. Emissions are controlled by a venturi scrubber and an impingement furnace scrubber (CE104-01-R) that exhaust through stack S104-01-R.
- (jj) Liquid Soda Ash Tank (Unit ID 104-02-R), installed in July 1995, with a maximum throughput of 15 ton/hr. Particulate emissions from loading this tank are controlled by a venturi scrubber (CE104-02-R) that exhausts to stack S104-02-R.
- (kk) Filter Aid Hopper (Unit ID 104-03-R), installed in July 1995, with a maximum throughput of 0.75 ton/hr. This hopper is equipped with a jet pulse baghouse (CE104-03-R) that exhausts to stack S104-03-R.
- (ll) Sodium Bisulfite Bag Dump (Unit ID 104-05-R), installed in July 1995, with a maximum throughput of 0.7 ton/hr. This unit is controlled by a jet pulse baghouse (CE104-05-R) that exhausts to stack S104-05-R.
- (mm) Diatomaceous Earth Unloading (Unit ID 104-08-R), installed in November 1998, with a maximum throughput of 1.75 ton/hr. 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.
- (nn) Citric Acid Dump Station (Unit ID 104-09-R), installed in November 1998, with a maximum throughput of 30 lb/hr. 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.
- (oo) Refinery Vacuum Pumps (1-3) (Unit IDs RVF 1-1, RVF 1-2, and RVF 1-3 Precoating Vacuum Pump), installed in July 1995. The pumps create the vacuum used to pull liquid corn syrup through a filtering media. Exhaust from the pumps is vented from the building.
- (pp) Refinery Vacuum Pumps (4-6) (Unit IDs RVF 3-1, RVF 3-2, and RVF 3-3 Precoating Vacuum Pump), installed in November 1999. The pumps create the vacuum used to pull liquid corn syrup through a filtering media. Exhaust from the pumps is vented from the building.
- (qq) Refinery Vacuum Pumps (7-8) (Unit IDs RVF 2-1 and RVF 2-2), installed in July 1995. The pumps create the vacuum used to pull liquid corn syrup through a filtering media. Exhaust from the pumps is vented from the building.
- (rr) Two (2) HCL tanks (Unit ID HCL Tank – Refinery), installed in July 1995 and December 2002. Tanks store HCl used in the corn syrup manufacturing process. The tanks vent to an acid fume scrubber.

VI. Starch Production Area

- (ss) Batch Scale Hopper #1 (Unit ID 34-01-S), installed in January 1991, with a maximum throughput of 24 ton/hr. 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.
- (tt) Dextrin Starch Reactor #1 (Unit ID 34-02-S), installed in January 1991, with a maximum throughput of 6 ton/hr. Dried cornstarch is fed to a reactor heated by

steam from the plant boiler. Particulate emissions are controlled by a bag filter dust collector (CE34-02-S) that exhausts to stack S34-02-S.

- (uu) Dextrin Starch Cooler #1 (Unit ID 34-03-S), installed in January 1991, with a maximum throughput of 6 ton/hr. 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.
- (vv) Surge Hopper #1 (Unit ID 34-05-S), installed in January 1991, with a maximum throughput of 6 ton/hr. 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.
- (ww) Dextrin Feed Hoppers #1 and #2 (System #1) (Unit IDs 34-06-S and 34-07-S), installed in April 1993, each with a maximum throughput of 6 ton/hr. 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.
- (xx) Batch Scale Hopper #2 (Unit ID 34B-13-S), installed in October 1993, with a maximum throughput of 24 ton/hr. 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.
- (yy) Dextrin Starch Reactor #2 (Unit ID 34B-04-S), installed in October 1993, with a maximum throughput of 6 ton/hr. Dried cornstarch is fed to a reactor heated by steam from the plant boiler. Particulate emissions are controlled by a bag filter dust collector (CE34B-04-S) that exhausts to stack S34B-04-S.
- (zz) Dextrin Starch Cooler #2 (Unit ID 34B-01-S), installed in October 1993, with a maximum throughput of 6 ton/hr. Roasted cornstarch 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.
- (aaa) Surge Hopper #2 (Unit ID 34B-03-S), installed in October 1993, with a maximum throughput of 6 ton/hr. 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.
- (bbb) Dextrin Feed Hoppers #3 and #4 (System #2) (Unit IDs 34B-05-S and 34B-06-S), installed in October 1993, each with a maximum throughput of 6 ton/hr. 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.
- (ccc) Dextrin Bulk Loading Equipment (Unit ID 48-09-S), installed before 1977, with a maximum throughput of 30 ton/hr. 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.
- (ddd) Starch Ring Dryer #2 (Unit ID 59-03-S), installed in November 1993. Starch is fed to this 25 MMBtu/hr natural gas-fired ring dryer at a maximum throughput of 13.5 ton/hr. 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.

- (eee) Starch Ring Dryer #3 (Unit ID 125-01-S), installed in May 1980. Cornstarch is fed to this 62 MMBtu/hr natural gas-fired ring dryer at a maximum throughput of 26.55 ton/hr. 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.
- (fff) Special Starch Process with Starch Ring Dryer #4 (Unit ID 128-01-S), installed in December 1993. Cornstarch is fed to this 30 MMBtu/hr natural gas-fired dryer at a maximum throughput of 12.5 ton/hr. 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.
- (ggg) Reactors #2 through #8 (Unit IDs 128-07-S through 128-13-S), installed in November 1988 (2-4) and December 1991 (5-8), each can process up to 40 tons of starch. Cornstarch and propylene oxide are reacted through Reactors 2, 3, 4, and 7 only. When propylene oxide is used, each reactor can use up to 5 tons of propylene oxide per batch. When propylene oxide is used in the starch reaction, VOC emissions are controlled by a thermal oxidizer that exhausts to stack S128-14-S.
- (hhh) Sodium Sulfate Storage Bin (Unit ID 128-25-S), installed in October 2000, with a maximum throughput of 1.1 ton/hr. Particulate emissions are controlled by a bin vent dust collector (FA1900), that exhausts to stack S128-25-S.
- (iii) Sodium Sulfate Weigh Bin (Unit ID 128-26-S), installed in October 2000, with a maximum throughput of 1.1 ton/hr. Particulate emissions are controlled by a bin vent dust collector (FA1950), that exhausts to stack S128-26-S.
- (jjj) Cornstarch Storage Bins #20 through #36 (Unit IDs 120-01-S through 120-17-S), installed in July 1990 and approved in 2011 for modification to increase airflow into Cornstarch Storage Bin No. 23 (ID 120-04-S) to allow for the dried starch from the No.2 Starch Dryer to directly convey starch to Cornstarch Storage Bin No. 23 (ID 120-04-S), each with a maximum throughput of 75 ton/hr. Cornstarch 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.
- (kkk) Waxy Cornstarch Bulk Storage Bins #95 through #98 (Unit IDs 126-01-S through 126-04-S), replaced in January 1996, each with a maximum throughput of 20.5 ton/hr. 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.
- (lll) Cornstarch Blending Systems #1 through #4 (Unit IDs 130-01-S through 130-04-S), installed in April 1988, each with a maximum throughput of 30 ton/hr. 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.

- (mmm) Dextrin Blender (Unit ID 130-05-S), installed in October 1993, with a maximum throughput of 30 ton/hr. 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.
- (nnn) 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.
- (ooo) Bldg 128 Tank Farm, installed in November 1999. Tanks include HCl, Acetic Anhydride, Sodium Bisulfate storage tanks, and the Acetic/Adipic mix tank. The tanks vent to an acid fume scrubber.

VII. Starch Warehouse Area

- (ppp) Channel 2 Receiver (Unit ID 93-32-W), installed in September 2000, with a maximum throughput of 15 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-32-W.
- (qqq) Channel 3 Receiver (Unit ID 93-33-W), installed in September 2000, with a maximum throughput of 25 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-33-W.
- (rrr) Channel 4 Receiver (Unit ID 93-34-W), installed in September 2000, with a maximum throughput of 15 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-34-W.
- (sss) Channel 6 Receiver (Unit ID 93-35-W), installed in September 2000, with a maximum throughput of 4.5 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-35-W.
- (ttt) Channel 4/6 Packing (Unit ID 93-37-W), installed in September 2000, with a maximum throughput of 40 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-37-W.
- (uuu) Channel 2/3 Packing (Unit ID 93-36-W), installed in September 2000, with a maximum throughput of 40 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-36-W.
- (vvv) Central Vacuum System (Unit ID 93-38-W), installed in October 2000, with a maximum throughput of 100 lb/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-38-W.
- (www) Dried Corn Syrup Conveying System (Unit ID 93-04-W), installed in July 1976, with a maximum throughput of 15 ton/hr. Particulate emissions are controlled by a baghouse (CE93-04-W) that exhausts to stack S93-04-W.
- (xxx) Corn Syrup Solids Conveying System (Unit ID 93-05-W), installed in July 1976, with a maximum throughput of 10 ton/hr. Particulate emissions are controlled by a baghouse (CE93-05-W) that exhausts to stack S93-05-W.
- (yyy) Frodex Semi-bulk Packing System (Unit ID 93-08-W), installed in September 1989, with a maximum throughput of 10 ton/hr. Particulate emissions are controlled by a baghouse (CE93-08-W) that exhausts to stack S93-08-W.

- (zzz) Cornstarch Bag Dumping Stations #1 and #2 (Unit IDs 93-09-W and 93-10-W), installed in April 1988, each with a maximum throughput of 1.2 ton/hr. 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.
- (aaaa) Starch Bulk Loading (Unit ID 93-14-W), installed in April 1995, with a maximum throughput of 30 ton/hr. Particulate emissions are controlled by a baghouse (CE93-14-W) that exhausts to stack S93-14-W.
- (bbbb) Starch Bulk Loading Vacuum Cleanup System (Unit ID 93-15-W), installed in February 1994, with a maximum throughput of 1 ton/hr. Cleanup for cornstarch spills. Particulate emissions are controlled by bag filter dust collector (CE93-15-W) that exhausts to stack S93-15-W.
- (cccc) Starch Mixing and Bulk Bagging Systems #1 and #2 (Unit IDs 93-16-W and 93-17-W), installed in August 1995, each with a maximum throughput of 25 ton/hr and 12.5 ton/hr, respectively. Particulate emissions are controlled by baghouses (CE93-16-W and CE93-17-W) that exhaust to stacks S93-16-W and S93-17-W.
- (dddd) P.G. Starch Receiver (Unit ID 93-18-W), installed in September 1999, with a maximum throughput of 3 ton/hr. 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.
- (eeee) P.G. Starch Packing (Unit ID 93-39-W), installed in January 2000, with a maximum throughput of 3 ton/hr. Particulate emissions are controlled by a dust collector (CE93-39-W) that exhausts to stack S93-39-W.
- (ffff) Corn Syrup Solids Manufacturing System #5, approved in 2010 for construction, identified as Unit ID 93-40-W, with a maximum capacity of 6,000 lbs/hr (dry basis), using dust collector (CE93-40-W) as control, and exhausting to stack S93-40-W.

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

This stationary source has the following insignificant activities, as 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 coalesce 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:

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

SECTION B GENERAL CONDITIONS

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

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

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

- (a) This permit, T089-27009-00203, 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 of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability [326 IAC 2-7-7] [IC 13-17-12]

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

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

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

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

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

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

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

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

-
- (a) A certification required by this permit meets the requirements of 326 IAC 2-7-6(1) if:

- (1) it contains a certification by a "responsible official" as defined by 326 IAC 2-7-1(34), and
 - (2) the certification states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) The Permittee may use the attached Certification Form, or its equivalent with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
 - (c) A "responsible official" is defined at 326 IAC 2-7-1(34).

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

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

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

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

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

The submittal by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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) A Preventive Maintenance Plan meets the requirements of 326 IAC 1-6-3 if it includes, at a minimum:

- (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.

The Permittee shall implement the PMPs.

(b) If required by specific condition(s) in Section D of this permit where no PMP was previously required, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) no later than ninety (90) days after issuance of this permit or ninety (90) days after initial start-up, whichever is later, including the following information on each facility:

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

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

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

The PMP extension notification does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

The Permittee shall implement the PMPs.

(c) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions. The

PMPs and their submittal do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

B.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, or Northwest Regional Office within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance and Enforcement Branch), or
Telephone Number: 317-233-0178 (ask for Office of Air Quality, Compliance and Enforcement Branch)
Facsimile Number: 317-233-6865
Northwest Regional Office phone: (219) 757-0265; fax: (219) 757-0267.

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

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

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

The notice fulfills the requirement of 326 IAC 2-7-5(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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

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

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

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

- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable

requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

- (c) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAQ, has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAQ, has issued the modification. [326 IAC 2-7-12(b)(8)]

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

- (a) All terms and conditions of permits established prior to T089-27009-00203 and issued pursuant to permitting programs approved into the state implementation plan have been either:
 - (1) incorporated as originally stated,
 - (2) revised under 326 IAC 2-7-10.5, or
 - (3) deleted under 326 IAC 2-7-10.5.
- (b) Provided that all terms and conditions are accurately reflected in this permit, all previous registrations and permits are superseded by this Part 70 operating permit.

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

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

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

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)] The notification by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.16 Permit Renewal [326 IAC 2-7-3][326 IAC 2-7-4][326 IAC 2-7-8(e)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the

document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.

- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified, pursuant to 326 IAC 2-7-4(a)(2)(D), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

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

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 or notice 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 limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

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

and

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

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

(5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-7-20(b),(c), or (e). The Permittee shall make such records available, upon reasonable request, for public review.

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

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

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

The notification which shall be submitted is not considered an application form, report or compliance certification. Therefore, the notification by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

(c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

- (d) **Alternative Operating Scenarios [326 IAC 2-7-20(d)]**
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

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

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

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

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, 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
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Any such application does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

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

C.1 Opacity [326 IAC 5-1]

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

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

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

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

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

The Permittee shall not operate an incinerator except as provided in 326 IAC 4-2 or in this permit. The Permittee shall not operate a refuse incinerator or refuse burning equipment except as provided in 326 IAC 9-1-2 or in this permit.

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

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

C.5 Stack Height [326 IAC 1-7]

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

C.6 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work

or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

- (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
- (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

C.7 Performance Testing [326 IAC 3-6]

- (a) For performance testing required by this permit, a test protocol, except as provided elsewhere in this permit, shall be submitted to:

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.8 Compliance Requirements [326 IAC 2-1.1-11]

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

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

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

Unless otherwise specified in this permit, for all monitoring requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or of initial start-up, whichever is later, to begin such monitoring. If due to circumstances beyond the Permittee's control, any monitoring equipment required by this permit cannot be installed and operated no later than ninety (90) days after permit issuance or the date of initial startup, whichever is later, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

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

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

The notification which shall be submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.10 Continuous Compliance Plan [326 IAC 6.8-8-1] [326 IAC 6.8-8-8]

- (a) Pursuant to 326 IAC 326 IAC 6.8-8-1, the Permittee shall submit to IDEM and maintain at source a copy of the Continuous Compliance Plan (CCP). The Permittee shall perform the inspections, monitoring and record keeping in accordance with the information in 326 IAC 6.8-8-5 through 326 IAC 6.8-8-7 or applicable procedures in the CCP.
- (b) Pursuant to 326 IAC 6.8-8-8, the Permittee shall update the CCP, as needed, retain a copy of any changes and updates to the CCP at the source and make the updated CCP available for inspection by the department. The Permittee shall submit the updated CCP, if required to IDEM, OAQ within thirty (30) days of the update.
- (c) Pursuant to 326 IAC 6.8-8, failure to submit a CCP, maintain all information required by the CCP at the source, or submit update to a CCP is a violation of 326 IAC 6.8-8.

C.11 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 40 CFR 60, Subpart Db.

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

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

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

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

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

- (a) The Permittee shall maintain the most recently submitted written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) Upon direct notification by IDEM, OAQ that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

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

Upon detecting an excursion where a response step is required by the D Section or an exceedance of a limitation in this permit:

- (a) The Permittee shall take reasonable response steps to restore operation of the emissions unit (including any control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing excess emissions.
- (b) The response shall include minimizing the period of any startup, shutdown or malfunction. The response may include, but is not limited to, the following:
 - (1) initial inspection and evaluation;
 - (2) recording that operations returned or are returning to normal without operator action (such as through response by a computerized distribution control system); or
 - (3) any necessary follow-up actions to return operation to normal or usual manner of operation.
- (c) A determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include, but is not limited to, the following:
 - (1) monitoring results;
 - (2) review of operation and maintenance procedures and records; and/or
 - (3) inspection of the control device, associated capture system, and the process.
- (d) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (e) The Permittee shall record the reasonable response steps taken.

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

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall submit a description of its response actions to IDEM, OAQ, no later than seventy-five (75) days after the date of the test.
- (b) A retest to demonstrate compliance shall be performed no later than one hundred eighty (180) days after the date of the test. Should the Permittee demonstrate to IDEM, OAQ that retesting in one hundred eighty (180) 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 a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

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

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]
Pursuant to 326 IAC 2-6-3(a)(1), the Permittee shall submit by July 1 of each year an emission statement covering the previous calendar year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4(c) and shall meet the following requirements:

- (1) Indicate estimated actual emissions of all pollutants listed in 326 IAC 2-6-4(a);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant, which is used only for purposes of Section 19 of this rule") from the source, for purpose of fee assessment.

The statement must be submitted to:

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

The emission statement does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34).

C.18 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]
[326 IAC 2-2][326 IAC 2-3][326 IAC 2-1.1-5]

- (a) Records of all required monitoring data, reports and support information required by this permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, for all record keeping requirements not already legally required, the Permittee shall be allowed up to ninety (90) days from the date of permit issuance or the date of initial start-up, whichever is later, to begin such record keeping.
- (c) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A), 40 CFR 51.165(a)(6)(vi)(B), 40 CFR 51.166(r)(6)(vi)(a), and/or 40 CFR 51.166(r)(6)(vi)(b)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(II)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) 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)(iii); and
 - (iv) An explanation for why the amount was excluded, and any netting calculations, if applicable.
- (d) If there is a reasonable possibility (as defined in 40 CFR 51.165(a)(6)(vi)(A) and/or 40 CFR 51.166(r)(6)(vi)(a)) that a "project" (as defined in 326 IAC 2-2-1(qq) and/or 326 IAC 2-3-1(ll)) at an existing emissions unit, other than projects at a source with a Plantwide Applicability Limitation (PAL), which is not part of a "major modification" (as defined in 326 IAC 2-2-1(ee) and/or 326 IAC 2-3-1(z)) 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) 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
 - (2) Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.

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

- (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 except that 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. This report shall be submitted not later than thirty (30) days after the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official" as defined by 326 IAC 2-7-1(34). A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.

- (b) The address for report submittal is:
- Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (e) If the Permittee is required to comply with the recordkeeping provisions of (d) 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:
- (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).
- (f) The report for project at an existing emissions unit shall be submitted no later than 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 (d)(1) and (2) 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 wishes to include in this report such as an explanation as to why the emissions differ from the preconstruction projection.

Reports required in this part shall be submitted to:

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

- (g) 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. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

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

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

SECTION D.0 FACILITY OPERATION CONDITIONS - Source Wide Limitations

Source-Wide Operations

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

D.0.1 Consent Decree Limitations

Pursuant to the Consent Decree entered by the United States District Court for the District of Minnesota on March 3, 2006 in United States v. Cargill, Inc. No. 05-2037 (D.Minn.), the Permittee shall comply with the following emission limitations:

Emission Source Description	EU or Emission Point ID	VOC (lb/hr)	CO (lb/hr)	SO₂ (lb/hr)	NO_x (lb/hr)
Corn Syrup Solid Manufacturing System #2	18-03-R	0.45	-	-	-
Batch Scale Hopper #1	34-01-S	0.07	-	-	-
Dextrin Starch Reactor #1	34-02-S	0.27	-	-	-
Dextrin Starch Cooler #1	34-03-S	0.06	-	-	-
Surge Hopper #1	34-05-S	0.17	-	-	-
Dextrin Feed Hopper #1 (System #1)	34-06-S	0.02	-	-	-
Dextrin Feed Hopper #2 (System #1)	34-07-S	0.02	-	-	-
Dextrin Starch Cooler #2	34B-01-S	0.06	-	-	-
Surge Hopper #2	34B-03-S	0.17	-	-	-
Dextrin Starch Reactor #2	34B-04-S	0.27	-	-	-
Dextrin Feed Hopper #3 (System #2)	34B-05-S	0.02	-	-	-
Dextrin Feed Hopper #4 (System #2)	34B-06-S	0.02	-	-	-
Batch Scale Hopper #2	34B-13-S	0.10	-	-	-
Dextrin Bulk loading Equipment	48-09-S	0.39	-	-	-
Starch Ring Dryer #2	59-03-S	1.19	19.00	-	-
Dried Corn Syrup Conveying System	93-04-W	0.03	-	-	-
Corn Syrup Solids Conveying System	93-05-W	0.03	-	-	-
Frodex Semi-Bulk Packing System	93-08-W	0.03	-	-	-
Cornstarch Bag Dumping Station #1	93-09-W	0.02	-	-	-
Cornstarch Bag Dumping Station #2	93-10-W	0.02	-	-	-
Starch Bulk Loading	93-14-W	0.09	-	-	-
Starch Bulk loading Vacuum System	93-15-W	0.01	-	-	-
Starch Mixing and Bagging System #1	93-16-W	0.05	-	-	-
Starch Mixing and Bagging System #2	93-17-W	0.10	-	-	-

Emission Source Description	EU or Emission Point ID	VOC (lb/hr)	CO (lb/hr)	SO₂ (lb/hr)	NO_x (lb/hr)
P.G. Starch Receiver	93-18-W	0.13	-	-	-
Channel 2 Receiver	93-32-W	0.08	-	-	-
Channel 3 Receiver	93-33-W	0.08	-	-	-
Channel 4 Receiver	93-34-W	0.08	-	-	-
Channel 6 Receiver	93-35-W	0.06	-	-	-
Channel 2/3 Packing	93-36-W	0.39	-	-	-
Channel 4/6 Packing	93-37-W	0.39	-	-	-
Central Vacuum System	93-38-W	0.02	-	-	-
P.G. Starch Packing	93.39-W	0.05	-	-	-
Corn Syrup Spray Dryer/Cooler System #3	100-01-R	0.50	1.00	-	-
Corn Spray Dryer #4	100-03-R	0.86	1.00	-	-
Activated Carbon Regeneration Furnace #2	104-01-R	10 ppm or 95% destruction	100 ppm or 90% destruction	0.11	5.0
Cornstarch Storage Bin #20	120-01-S	0.05	-	-	-
Cornstarch Storage Bin #21	120-02-S	0.05	-	-	-
Cornstarch Storage Bin #22	120-03-S	0.05	-	-	-
Cornstarch Storage Bin #23	120-04-S	0.05	-	-	-
Cornstarch Storage Bin #24	120-05-S	0.05	-	-	-
Cornstarch Storage Bin #25	120-06-S	0.05	-	-	-
Cornstarch Storage Bin #26	120-07-S	0.05	-	-	-
Cornstarch Storage Bin #27	120-08-S	0.05	-	-	--
Cornstarch Storage Bin #28	120-09-S	0.05	-	-	-
Cornstarch Storage Bin #29	120-10-S	0.05	-	-	-
Cornstarch Storage Bin #30	120-11-S	0.05	-	-	-
Cornstarch Storage Bin #31	120-12-S	0.05	-	-	-
Cornstarch Storage Bin #32	120-13-S	0.05	-	-	-
Cornstarch Storage Bin #33	120-14-S	0.05	-	-	-
Cornstarch Storage Bin #34	120-15-S	0.05	-	-	-
Cornstarch Storage Bin #35	120-16-S	0.05	-	-	-
Cornstarch Storage Bin #36	120-17-S	0.05	-	-	-
Fiber Drying Equipment	89-01-G	10.57	-	3.95	-
Gluten Dryer System	121-01-G	3.72	2.95	0.68	-
Germ Dryer/Cooler	124A-01-G	3.97	0.46	0.77	-
Starch Ring Dryer #3	125-01-S	0.86	6.00	-	-
Waxy Cornstarch Bulk Storage Bins #95	126-01-S	0.18	-	-	-
Waxy Cornstarch Bulk Storage Bins #96	126-02-S	0.18	-	-	-
Waxy Cornstarch Bulk Storage Bins #97	126-03-S	0.18	-	-	-
Waxy Cornstarch Bulk Storage Bins #98	126-04-S	0.18	-	-	-
Sp. Starch Process with Starch Ring Dryer #4	128-01-S	0.90	6.00	-	-
Thermal Oxidizer	S128-14-S	1.33	8.61	-	-
Cornstarch Blending System #1	130-01-S	0.04	-	-	-

Emission Source Description	EU or Emission Point ID	VOC (lb/hr)	CO (lb/hr)	SO₂ (lb/hr)	NO_x (lb/hr)
Cornstarch Blending System #2	130-02-S	0.04	-	-	-
Cornstarch Blending System #3	130-03-S	0.04	-	-	-
Cornstarch Blending System #4	130-04-S	0.04	-	-	-
Dextrin Blender	130-05-S	0.09	-	-	-
Germ Tank 1310	200-01-G	0.16	-	-	-
Gluten Tank 1410	200-02-G	0.16	-	-	-
Germ Tank 1110	200-03-G	0.16	-	-	-
Gluten Tank 1010	200-04-G	0.16	-	-	-
Bulk Loadout	200-05-G	3.89	-	-	-
Biogas Flare	800-05-E	0.78	1.71	-	-
HCL Tank - Refinery		0.08	-	-	-
Bldg 128 Tank Farm		0.08	-	-	-
3 Gluten Filters		0.42	-	-	-
3 Gluten Vacuum Pumps		0.77	-	-	-
Refinery Vacuum Pumps (1-3)		0.43	-	-	-
Refinery Vacuum Pumps (4-6)		0.64	-	-	-
Refinery Vacuum Pumps (7-8)		0.64	-	-	-
WWTP Centrifuges (2)		0.04	-	-	-

*Note - in order to avoid duplication of requirements the above units are also subject to the following compliance determination, compliance monitoring, recordkeeping and reporting conditions: D.1.5, D.1.6, D.1.7, D.1.8, D.3.16, D.3.17, D.3.19, D.3.20, D.5.12, D.5.13, D.5.15, D.5.16, D.6.6, D.6.12, D.6.13, and D.6.15.

D.0.2 State Implementation Plan

Pursuant to the Consent Decree entered by the United States District Court for the District of Minnesota on March 3, 2006 in United States v. Cargill, Inc. No. 05-2037 (D.Minn.), the Permittee shall apply to have the limitations in Condition D.0.1 incorporated into the State Implementation Plan.

Compliance Determination Requirements

D.0.3 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

-
- (a) No later than 180 days after the issuance of permit number T089-27009-00203, in order to demonstrate compliance with Conditions D.0.1, D.3.6, D.5.3, and D.6.3, the Permittee shall perform VOC testing on the following units utilizing methods as approved by the Commissioner.

Emission Source Description	EU or Emission Point ID
Starch Ring Dryer #2	59-03-S
Corn Syrup Spray Dryer/Cooler System #3	100-01-R
Corn Spray Dryer #4	100-03-R
Fiber Drying Equipment	89-01-G
Gluten Dryer System	121-01-G
Germ Dryer/Cooler	124A-01-G
Starch Ring Dryer #3	125-01-S
Sp. Starch Process with Starch Ring Dryer #4	128-01-S
Thermal Oxidizer	S128-14-S
3 Gluten Filters	
3 Gluten Vacuum Pumps	
HCL Tank - Refinery	
Bldg 128 Tank Farm	

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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C- Performance Testing contains the Permittee's obligation with regard to the testing required by this condition.

- (b) No later than 180 days after the issuance of permit number T089-27009-00203, in order to demonstrate compliance with Condition D.0.1, the Permittee shall perform CO testing on the following units utilizing methods as approved by the Commissioner.

Emission Source Description	EU or Emission Point ID
Thermal Oxidizer	S128-14-S
Activated Carbon Regeneration Furnace #2	104-01-R

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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C- Performance Testing contains the Permittee's obligation with regard to the testing required by this condition.

- (c) No later than 180 days after the issuance of permit number T089-27009-00203, in order to demonstrate compliance with Condition D.0.1, the Permittee shall perform SO₂ testing on the following units utilizing methods as approved by the Commissioner.

Emission Source Description	EU or Emission Point ID
Fiber Drying Equipment	89-01-G
Gluten Dryer System	121-01-G
Germ Dryer/Cooler	124A-01-G
Activated Carbon Regeneration Furnace #2	104-01-R

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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C- Performance Testing contains the Permittee's obligation with regard to the testing required by this condition.

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

D.0.4 Parametric Monitoring for Temperature

- (a) Desorption inlet temperature shall be measured with a thermocouple located in the inlet of the desorption zone.
- (b) The accuracy of the thermocouple shall be verified by a second, or redundant, thermocouple probe inserted at the inlet to the desorption zone. This validation check will be conducted annually. The acceptance criterion is $\pm 30^{\circ}\text{F}$. Alternatively, the thermocouple can be recalibrated annually. The minimum tolerance of the thermocouple is $\pm 4^{\circ}\text{F}$ or $\pm 0.75\%$ of the temperature, whichever is greater.
- (c) The three (3) hour average temperature shall be calculated as the average of the readings (except that the average need only be calculated if readings occur below the specified temperature level).
- (d) The temperature shall be monitored continuously and the temperature recorded at least once every fifteen (15) minutes (a minimum of four (4) equally spaced readings per hour).
- (e) An excursion is defined as a three (3) hour period during which the average temperature measured is lower than the specified indicator value as determined in the most recent valid compliance stack test. The three (3) hour average temperature will be calculated when the temperature recorder indicates readings below the specified temperature.

If a condition exists which would result in response steps, the Permittee shall take reasonable response steps. Section C - Response to Excursion or Exceedances contains the Permittee's obligations with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.0.5 Parametric Monitoring for Scrubbers

The Permittee shall monitor and record the recirculation water flow rate (if applicable) and pH of the scrubbing liquid for the wet gas scrubbers associated with units 89-01-G, 121-01-G, 124A-01-G, and 104-01-R at least once per day when the process is in operation. When for any one reading each parametric range or the minimum operating parameter for the scrubbers in below table is outside its normal range, or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Scrubber ID	Minimum Flow Rate of Scrubbing Liquor (gallons/minute)	pH of Scrubbing Liquor
CE89-01-G	400	7.0
CE121-01-G	N/A	5.5
CE124A-01-G	N/A	5.5
CE104-01-R	N/A	7.0

The instrument used for determining the scrubbing liquid flow rate and pH shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

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

D.0.6 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.0.4, the following record keeping shall be maintained onsite:
 - (1) Description of measuring device (digital data acquisition systems),
 - (2) Data from the device and any temporary data logged manually as back-up,
 - (3) Excursions,
 - (4) Corrective actions taken, and
 - (5) Calibration records.
- (b) In order to document the compliance status with condition D.0.5, the Permittee shall maintain the once per day records of the water recirculation flow rate and pH during normal operation. The Permittee shall include in its daily record when recirculation water flow and pH are not taken and the reason for the lack of recirculation water flow rate and pH (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.1 FACILITY OPERATION CONDITIONS - Wastewater Treatment Process

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

I. Wastewater Treatment Process

- (a) One (1) anaerobic wastewater treatment process installed in July 1995. Biogas is generated in the wastewater treatment plant by anaerobic reaction. The biogas can be controlled by:
- (1) Diverted to a plant process burner for energy recovery, which is the normal scenario; or
 - (2) One (1) Biogas Flare (Unit ID 800-05-E), installed in July 1995. The biogas flare converts the hydrogen sulfide (H_2S) in the biogas to sulfur dioxide (SO_2). The biogas flare exhausts to stack ID S800-05-E.
- (b) Two (2) wastewater treatment process centrifuges (WWTP - North and WWTP - South), installed in July 1995. The centrifuges dewater the excess biomass from wastewater treatment process. Exhaust from the process vents inside the WWTP building.

(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 H_2S PSD Minor Limit [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

All biogas shall either be combusted for energy recovery in a plant process or combusted in the Biogas Flare (Unit ID 800-05-E) such that H_2S emissions shall be limited to less than ten (10) tons per twelve (12) consecutive month period.

Compliance with the above limit shall limit H_2S emissions from the anaerobic wastewater treatment process to less than ten (10) tons per twelve (12) consecutive month period and render 326 IAC 2-2 not applicable.

D.1.2 SO_2 PSD Minor Limit [326 IAC 2-2]

In order to render the requirements of 326 IAC 2-2 (PSD) not applicable, the Permittee shall comply with the following:

All biogas shall either be combusted for energy recovery in a plant process or combusted in the Biogas Flare (Unit ID 800-05-E) such that SO_2 emissions shall be limited to less than forty (40) tons per twelve (12) consecutive month period.

Compliance with the above limit shall limit SO_2 emissions from the anaerobic wastewater treatment process to less than forty (40) tons per twelve (12) consecutive month period and render 326 IAC 2-2 not applicable.

D.1.3 Lake County Sulfur Dioxide Emission Limitations [326 IAC 7-4.1-5]

Pursuant to 326 IAC 7-4.1-5 (Lake County Sulfur Dioxide Emission Limitations), emissions of sulfur dioxide from the Biogas Flare (Unit ID 800-05-E) shall not exceed 9.13 pounds per hour.

D.1.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for this facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the Preventive Maintenance Plan required by this condition.

Compliance Determination Requirements

D.1.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.0.1, D.1.1, D.1.2, and D.1.3, the Permittee shall perform design and operation testing for the Biogas Flare (800-05-E), within one hundred eighty (180) days after issuance of permit number 089-27009-00203, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C- Performance Testing contains the Permittee's obligation with regard to the testing required by this condition.

D.1.6 Compliance Determination Requirements

To ensure 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 [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.1.7 Biogas Sampling

The Permittee shall perform bimonthly sampling of the biogas generated by the anaerobic digester. Samples shall be analyzed for H₂S and SO₂ content and H₂S and SO₂ emissions calculated using the following mass balance equations:

$$H2S_s \left(\frac{lb}{hr} \right) * CE = H2S \left(\frac{lb}{hr} \right) * 8760 \left(\frac{hr}{yr} \right) * \frac{1 \text{ ton}}{2000 \text{ lb}} = H2S \left(\frac{ton}{yr} \right)$$

$$\left[H2S \left(\frac{lb}{hr} \right) * \frac{MWSO2}{MWH2S} \right] + SO2_s = SO2 \left(\frac{lb}{hr} \right) * 8760 \left(\frac{hr}{yr} \right) * \frac{1 \text{ ton}}{2000 \text{ lb}} = SO2 \left(\frac{ton}{yr} \right)$$

Where:

H₂S_s = The H₂S emissions from the sample in pounds per hour.

CE = The control efficiency/ rate at which the flare converts H₂S to SO₂ is 99.9%.

MWH₂S = The molecular weight of H₂S is 34.08.

MWSO₂ = The molecular weight of SO₂ is 64.06.

SO₂s = The SO₂ emissions from the sample in pounds per hour.

D.1.8 Flame Presence [40 CFR 64]

The Permittee shall monitor and record the flame presence for the Biogas Flare once 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.1.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.1.7, the Permittee shall maintain a record of the bimonthly samples of biogas and the calculated H₂S and SO₂ emissions based on those samples.
- (b) To document the compliance status with Condition D.1.8, the Permittee shall maintain a daily record of the flame presence. The Permittee shall include in its daily record when a

flame presence notation is not taken and the reason for the lack of a flame presence notation (e.g. the process did not operate that day).

- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.1.10 Reporting Requirements [326 IAC 7-4.1-5(b)]

- (a) A quarterly report of all H₂S and SO₂ emissions from unit 800-04-E shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (34).
- (b) A quarterly report of all SO₂ emissions from units' 121-01-G, 89-01-G, 124A-01-G, 104-01-R, and 800-04-E, to document the compliance status with 326 IAC 7-4.1-5(b) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (34).

SECTION D.2 FACILITY OPERATION CONDITIONS - Alternate Carbohydrate Area

Facility Description [326 IAC 2-7-5(15)]: **II. Alternate Carbohydrate Area**

- (c) Alternate Carbohydrate Mill Feed Hopper (Unit 127-30-B), installed in May 1993 and repurposed in 2008, with a maximum capacity of 0.836 tons per hour. Particulate emissions are controlled by dust collector (CE127-30-B) that exhausts to stack S127-30-B.
- (d) No. 1 and No. 2 Alternate Carbohydrate Storage Bins (Unit ID 127-28-B and 127-29-B), installed in May 1993 and repurposed in 2008, each with a maximum throughput of 15 tons per hour. Carbohydrate is pneumatically conveyed to these hoppers equipped with bag filter dust collectors (CE127-28-B and CE127-29-B) that exhaust to stacks S127-28-B and S127-29-B.
- (e) No. 1 and No. 2 Vacuum Cleaner Systems (Unit ID 127-21-B and 127-22-B), installed in May 1993, each with a maximum throughput of 0.3 tons per hour. These systems are for building dust. Particulate emissions are controlled by dust collectors that exhaust to stacks S127-21-B and S127-22-B.

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

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

D.2.1 PM/PM10 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

In order to make the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable, the PM and PM10 emissions from the following operations shall not exceed the emissions limits listed in the table below:

Unit	Unit ID	PM/PM10 Emission Limit (lb/hr)
No. 1 Alternate Carbohydrate Storage Bin	127-28-B	0.18
No. 2 Alternate Carbohydrate Storage Bin	127-29-B	0.18
Alternate Carbohydrate Mill Feed Hopper	127-30-B	0.028

Compliance with these limits in conjunction with the PM and PM10 limits in Condition D.3.1, will ensure that the PM emissions from Significant Source Modification No. 089-25241-00203 are less than 25 tons per twelve (12) consecutive month period and PM10 emissions from Significant Source Modification No. 089-25241-00203 are less than 15 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable.

D.2.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2 (Lake County: PM10 Emission Requirements), emissions of particulate matter less than ten microns in diameter (PM10) shall not exceed the emissions limits listed in the table below:

Unit ID	PM10 Limit (gr/dscf)	PM10 Limit (lbs/hr)
Alternate Carbohydrate Mill Feed Hopper (127-30-B)	0.01	0.028
No. 1 & No. 2 Alternate Carbohydrate Storage Bins (127-28-B) & (127-29-B)	0.01 each	0.18 each
Vacuum Cleaners #1 & #2 (127-21-B) & (127-22-B)	0.01 each	0.031 each

D.2.3 VOC Emissions [326 IAC 8-7] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

Pursuant to 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties), the BCD Reaction and Separation (Unit ID 127-03-B) has been removed from the source. The shutdown of this unit shall be permanent.

D.2.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for each Alternate Carbohydrate Area facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.2.5 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

In order to demonstrate compliance with Conditions D.2.1 and D.2.2, the Permittee shall perform PM and PM10 testing for the No. 1 and No. 2 Alternate Carbohydrate Storage Bins (127-28-B & 127-29-B) and the Alternate Carbohydrate Mill Feed Hopper (127-30-B), within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM-10.

D.2.6 Particulate Matter [326 IAC 6.8-2] [326 IAC 2-7-6(6)][326 IAC 2-2][326 IAC 2-1.1-5]

- (a) In order to comply with D.2.1 and D.2.2, the bag filter dust collectors for PM and PM10 control shall be in operation and control emissions from their associated facilities at all times that the facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (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.

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

D.2.7 Parametric Monitoring (Dust Collectors)

The Permittee shall record the pressure drop across all baghouses or dust collectors used in conjunction with each Alternate Carbohydrate Area 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range ("H ₂ O)
Alternate Carbohydrate Mill Feed Hopper (127-30-B)	Dust Collector	0.1 - 6
No. 1 & No. 2 Alternate Carbohydrate Storage (127-28-B) & (127-29-B)	Dust Collector	0.1 - 6 each
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 - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.2.8 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

D.2.9 Visible Emissions Notations

- (a) Visible emission notations of each Alternate Carbohydrate Area stack exhaust shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps 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.2.10 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.7, the Permittee shall maintain a daily record of the pressure drops across the baghouses controlling the processes. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (b) To document the compliance status with Condition D.2.9, the Permittee shall maintain a daily record of visible emission notations of the Alternate Carbohydrate Area facility stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3

FACILITY OPERATION CONDITIONS - Grind and Feedhouse Area

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

III. Grind and Feedhouse Area

- (f) Gluten Dryer System (Unit ID 121-01-G), installed in March 1995. Gluten meal is fed to a 12.5 MMBtu/hr natural and bio gas-fired ring dryer at a maximum throughput of 15,800 lb/hr. Particulate emissions are controlled by wet scrubber (CE121-01-G) that exhausts to stack S121-01-G.
- (g) No. 2 Gluten Dryer (Unit ID 121A-01-G), approved for construction in 2008. Gluten meal is fed to a 17 MMBtu/hr natural and bio gas-fired ring dryer at a maximum throughput of 19,700 lb/hr. Particulate emissions are controlled by two (2) wet scrubbers operating in series, one venturi-type followed by one tray-type scrubber (collectively identified as Unit ID CE121A-01-G) that exhausts to stack S121A-01-G.
- (h) One (1) Germ Dryer/Cooler (Unit ID 203-01-G), approved for construction in 2008. Corn germ is fed to a 30 MMBtu/hr natural and bio gas-fired germ dryer and cooler at a maximum throughput of 38,600 lb/hr. Particulate emissions are controlled by one (1) wet scrubber (Unit ID CE203-01-G) that exhausts to stack S203-01-G.
- (i) No. 1 Bran Bunker (Unit ID 89-06-G), approved for construction in 2008, with a maximum throughput rate of 107,433 tons per year, using a bin vent filter (Unit ID CE089-06-G) with an outlet grain loading of 0.01 gr/dscf as control, and exhausting to stack S89-06-G.
- (j) No. 2 Bran Bunker (Unit ID 89-07-G), approved for construction in 2008, with a maximum throughput rate of 107,433 tons per year, using a bin vent filter (Unit ID CE89-07-G) with an outlet grain loading of 0.01 gr/dscf as control, and exhausting to stack S89-07-G.
- (k) One (1) Bran Conveyor System (Unit ID 89-08-G), approved for construction in 2008, with a maximum throughput rate of 107,433 tons per year, using existing scrubber CE89-01-G (constructed in 1995) as control, and exhausting to stack S89-01-G.
- (l) One (1) Bran Preweigh Hopper (Unit ID 89-09-G), approved for construction in 2008, with a maximum throughput rate of 107,433 tons per year, using a bin vent filter (Unit ID CE89-09-G) with an outlet grain loading of 0.01 gr/dscf as control, and exhausting to stack S89-09-G.
- (m) Fiber Drying Equipment (Unit ID 89-01-G), installed in October 1995. Wet fiber is fed to this 78 MMBtu/hr natural gas-fired dryer at a maximum throughput of 79,695 lb/hr. Particulate matter is controlled by a scrubber (CE89-01-G) that exhausts to stack S89-01-G.
- (n) Germ Dryer/Cooler (Unit ID 124A-01-G), installed in November 1994. Corn germ is fed to this 12.9 MMBtu/hr natural and bio gas-fired germ dryer and cooler at a maximum throughput of 16,580 lb/hr. Particulate emissions are controlled by one (1) scrubber (CE124A-01-G) that exhausts to stack S124A-01-G.
- (o) Central Vacuum Loadout (Unit ID 200-07-G), installed in October 2000, with a maximum throughput of 100 lb/hr. Particulate emissions are controlled by a dust collector (CE200-07-G) that exhausts to stack S200-07-G.
- (p) Germ Tank 1310 (Unit ID 200-01-G), installed in October 2000, with a maximum throughput of 80,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-01-G) that exhausts to stack S200-01-G.

- (q) Gluten Tank 1410 (Unit ID 200-02-G), installed in October 2000, with a maximum throughput of 80,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-02-G) that exhausts to stack S200-02-G.
- (r) Corn Screenings Silo (Unit ID 200-06-G), installed in October 2000, with a maximum throughput of 11,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-06-G) that exhausts to stack S200-06-G.
- (s) Gluten Tank 1010 (Unit ID 200-04-G), installed in October 2000, with a maximum throughput of 21,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-04-G) that exhausts to stack S200-04-G.
- (t) Germ Tank 1110 (Unit ID 200-03-G), installed in October 2000, with a maximum throughput of 30,000 lb/hr. Particulate emissions are controlled by a dust collector (CE200-03-G) that exhausts to stack S200-03-G.
- (u) Bulk Loadout (Unit ID 200-05-G), installed in October 2000, with a maximum throughput of 95,900 lb/hr. Particulate emissions are controlled by a dust collector (CE200-05-G) that exhausts to stack S200-05-G.
- (v) Corn Dump Pit (Unit ID 140-05-G), installed in December 1995, with a maximum throughput of 840 tons/hr. Particulate emissions are controlled by filter baghouse (CE140-05-G) that exhausts to stack S140-05-G.
- (w) Corn Elevator Conveying (Unit ID 140-07-G), installed in December 1995, with a maximum throughput of 140 tons/hr. 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.
- (x) Corn Receiving and Storage, installed in December 1995. This system includes six Storage Bins, each with its own bin vent for control of particulate emissions, and each with a maximum throughput of 420 ton/hr:
 - (1) Bin #1: Unit ID 140-01-G
 - (2) Bin #2: Unit ID 140-02-G
 - (3) Bin #3: Unit ID 140-03-G
 - (4) Bin #4: Unit ID 140-04-G
 - (5) Bin #5: Unit ID 33-01-G
 - (6) Bin #6: Unit ID 33-02-G
- (y) Gravity Take-up Conveyor (Corn Scale) (Unit ID 140-06-G), installed in December 1995, with a maximum throughput of 140 ton/hr. 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.
- (z) Corn Cleaner (Unit ID 33-03-G), installed in December 1995, with a maximum throughput of 140 ton/hr. Corn passes through mechanical cleaners. Particulate emissions are controlled by a filter baghouse (CE33-03-G) that exhausts to stack S33-03-G.
- (aa) Corn Screenings System (Unit ID 30-16-G), installed in July 1976, with a maximum throughput of 8.4 ton/hr. This system includes a dirt storage silo equipped with bag filter collector (CE30-16-G) that exhausts to stack S30-16-G.
- (bb) Three (3) Gluten Filters, installed in December 1995. Gluten slurry is applied to the surface of a filter drum where an internal vacuum on the drum removes moisture from the slurry. The Gluten is then removed from the drum by a roller. Exhaust from the removal process is collected by a

hood and exhausted from the building.

- (cc) Three (3) Gluten Vacuum Pumps, installed in December 1995. The pumps create the vacuum used to remove moisture from the gluten slurry on the gluten filter. Exhaust from the pumps is vented from the building.
- (dd) Twenty-four (24) steep tanks (Unit ID Steepphouse - Grind 1), consisting of 21 steep tanks installed prior to 1973 and 3 steep tanks installed in December 1995. The steep tanks contain a mildly acidic solution to soften the corn prior to milling. Tanks are individually vented and have only working/breathing losses.

(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 PM/PM10 PSD and Nonattainment NSR Minor Limit [326 IAC 2-2] [326 IAC 2-1.1-5]

In order to make the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable:

- (a) The PM and PM10 emissions from the following operations shall not exceed the emissions limits listed in the tables below:

Unit	Unit ID	Control Device ID	PM/PM10 Emission Limit (lb/hr)
Corn Screening System	30-16-G	CE30-16-G	0.06
Storage Bin No. 5 (Grind 1)	33-01-G	CE33-01-G	0.171
Storage Bin No. 6 (Grind 2)	33-02-G	CE33-02-G	0.171
Corn Cleaner	33-03-G	CE33-03-G	0.21
Fiber Dryer & Bran Conveyor System	89-01-G / 89-08-G	CE-89-01-G	3.746
No. 1 Gluten Dryer	121-01-G	CE121-01-G	2.245
Storage Bin #3	140-03-G	CE140-03-G	0.343
Storage Bin #4	140-04-G	CE140-04-G	0.343
Storage Bin #1	140-01-G	CE140-01-G	0.343
Storage Bin #2	140-02-G	CE140-02-G	0.343
Corn Dump Pit	140-05-G	CE140-05-G	1.286
Gravity Take-Up Conveyor	140-06-G	CE140-06-G	0.154
Corn Elevator Conveying	140-07-G	CE140-07-G	0.086
Germ Tank 1310	200-01-G	CE200-01-G	0.05
Gluten Tank 1410	200-02-G	CE200-02-G	0.05
Germ Tank 1110	200-03-G	CE200-03-G	0.05
Gluten Tank 1010	200-04-G	CE200-04-G	0.05
Bulk Loadout	200-05-G	CE200-05-G	1.21
Corn Screening Silo	200-06-G	CE200-06-G	0.02
Central Vacuum Loadout	200-07-G	CE200-07-G	0.02
No. 1 Bran Bunker	89-06-G	CE89-06-G	0.006
No. 2 Bran Bunker	89-07-G	CE89-07-G	0.006
Bran Preweigh Hopper	89-09-G	CE89-09-G	0.006
No. 2 Gluten Dryer	121A-01-G	CE121A-01-G	2.4
Germ Dryer/Cooler	203-01-G	CE203-01-G	2.81

(b) Pursuant to 326 IAC 2-2 (PSD), the following units shall be removed from operation once the modification permitted under SSM 089-25241-00203 has been constructed:

- (1) Rotary Feed Dryer (89-03-G)
- (2) Dry Feed Transfer (89-05-G)
- (3) Germ Storage Silo (121-14-G)
- (4) Waxy Feed Drum Dryer (124-01-G)
- (5) Waxy Feed Mill Equipment (124-22-G)
- (6) Wet Feed Transfer (124-23-G)
- (7) Hammermill No. 1 (201-01-G)
- (8) Hammermill No. 2 (201-02-G)
- (9) Pellet Cooler No. 1 (201-03-G)
- (10) Pellet Cooler No. 2 (201-04-G)
- (11) Loose Feed Bin Vent (201-05-G)
- (12) Central Vacuum Pelletizing (201-06-G)
- (13) Receiver 1st Stage Germ Dryer (21A-01-G)
- (14) 1st Stage Germ Dryer (21A-02-G)
- (15) Receiver 2nd Stage Germ Dryer (51A-01-G)
- (16) 2nd Stage Germ Dryer (51A-02-G)

The shutdown of these units shall be permanent.

(c) The existing Germ Dryer/Cooler (124A-01-G) shall be shutdown and removed from the source no later than 180 days after the startup of the new Germ Dryer/Cooler (Unit ID 203-01-G). The shutdown and removal of this unit shall be permanent.

Compliance with these limits in conjunction with the PM and PM10 limits in Condition D.2.1, will ensure that the PM emissions from Significant Source Modification No. 089-25241-00203 are less than 25 tons per twelve (12) consecutive month period and PM10 emissions from Significant Source Modification No. 089-25241-00203 are less than 15 tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) are rendered not applicable for PM/PM10 for Significant Source Modification No. 089-25241-00203.

D.3.2 VOC Emission Offset [326 IAC 2-3]

(a) Pursuant to 326 IAC 2-3 (Emission Offset), the following units shall be removed from operation once the modification permitted under SSM 089-25241-00203 has been constructed:

- (1) Rotary Feed Dryer (89-03-G)
- (2) Waxy Feed Drum Dryer (124-01-G)
- (3) 1st Stage Germ Dryer (21A-02-G)
- (4) 2nd Stage Germ Dryer (51A-02-G)
- (5) Hammermill No. 1 (201-01-G)
- (6) Hammermill No. 2 (201-020-G)
- (7) Pellet Cooler No. 1 (201-03-G)
- (8) Pellet Cooler No. 2 (201-04-G)
- (9) Loose Feed Bin Vent (201-05-G)
- (10) Central Vacuum Pelletizing (201-06-G)

The shutdown of these units shall be permanent.

- (b) The existing Germ Dryer/Cooler (124A-01-G) shall be shutdown and removed from the source no later than 180 days after the startup of the new Germ Dryer/Cooler (Unit ID 203-01-G). The shutdown and removal of this unit shall be permanent.

Compliance with these requirements will ensure that the VOC emissions from Significant Source Modification No. 089-25241-00203, are less than twenty-five (25) tons per twelve (12) consecutive month period. Therefore, the requirements of 326 IAC 2-3 (EO) are rendered not applicable for VOC for Significant Source Modification No. 089-25241-00203.

D.3.3 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2 (Lake County: PM10 Emission Requirements), emissions of particulate matter less than ten microns in diameter (PM10) shall not exceed the following:

Unit ID	PM10 Limit (gr/dscf)	PM10 Limit (lbs/hr)
Gluten Dryer System (121-01-G)	0.03	3.0
Fiber Drying Equipment (89-01-G)	0.01	4.5
Germ Dryer/Cooler (124A-01-G)	0.02	1.872
Corn Dump Pit (140-05-G)	0.01	1.286
Corn Elevator Conveying (140-07-G)	0.01	0.086
Corn Receiving and Storage Bins 1, 2, 3, & 4	0.02 each	0.343 each
Corn Receiving and Storage Day Tanks 5 & 6	0.02 each	0.171 each
Gravity Take-up Conveyor (140-06-G)	0.01	0.154
Corn Cleaner (33-03-G)	0.01	0.21
Corn Screenings System (30-16-G)	0.01	0.06

D.3.4 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2(h)]

Pursuant to 326 IAC 6.8-1-2(h) (Nonattainment Area Particulate Limitations), emissions of particulate matter from the following units shall not exceed the following limitations:

Unit ID	PM Limit (gr/dscf)	PM Limit (lbs/hr)
Central Vacuum Loadout (200-07-G)	0.005	0.02
Germ Tank 1310 (200-01-G)	0.005	0.05
Gluten Tank 1410 (200-02-G),	0.005	0.05
Corn Screenings Silo (200-06-G)	0.005	0.02
Gluten Tank 1010 (200-04-G)	0.005	0.05
Germ Tank 1110 (200-03-G)	0.005	0.05
Bulk Loadout (200-05-G)	0.005	1.21

D.3.5 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2]

Pursuant to 326 IAC 6.8-1-2 (Nonattainment Area Particulate Limitations), emissions of particulate matter from the following units shall not exceed the following limitations:

Unit ID	PM Limit (gr/dscf)	PM Limit (lbs/hr)
No. 2 Gluten Dryer (121A-01-G)	0.03	3.0
Germ Dryer/Cooler (203-01-G)	0.03	3.0
No. 1 Bran Bunker (89-06-G)	0.03	3.0
No. 2 Bran Bunker (89-07-G)	0.03	3.0
Bran Conveyor System (89-08-G)	0.03	3.0
Bran Preweigh Hopper (89-09-G)	0.03	3.0

D.3.6 VOC Emissions [326 IAC 8-7] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

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

(a) Emissions of VOC from the following units shall not exceed the following limitations:

Unit Name	Unit ID	VOC Limit (lbs/hr)
Gluten Dryer System	121-01-G	3.72
Germ Dryer/Cooler	124A-01-G	3.97
Steephouse – Grind 1	Bldg 23	0.0039 ¹

1 – Units are lbs per bushel

(b) The following units have been removed from the source:

Unit Name	Unit ID
Gluten Ring Dryer #1	19-03-G
Waxy Feed Drum Dryer	124-01-G
1 st Stage Germ Dryer – Grind 1	21A-02-G
1 st Stage Germ Dryer – Grind 2	Bldg 123
2 nd Stage Germ Dryer	51A-02-G
Feed Flash Dryer #1	Bldg 21
Feed Flash Dryer #2	Bldg 21A
Rotary Feed Dryer #1	Bldg 20A
Rotary Feed Dryer #2	Bldg 20A
Rotary Feed Dryer #3	Bldg 20A
Rotary Feed Dryer #4	Bldg 20A
Rotary Feed Dryer #5	Bldg 20A
Rotary Feed Dryer – Grind 2	Bldg 124
Millhouse Aspiration System – Grind 1	Bldg 15
Millhouse Aspiration System – Grind 2	Bldg 123
Steephouse – Grind 2	Bldg 53
Feed Pelletizing System – Point A	91-13-G
Feed Pelletizing System – Point B	91-14-G
Feed Pelletizing System – Point C	91-15-G
Feed Pelletizing System – Point D	91-16-G

The shutdown of these units shall be permanent.

D.3.7 Sulfur Dioxide Limitations for Lake County [326 IAC 7-4.1-5]

Pursuant to 326 IAC 7-4.1-5 (Sulfur Dioxide Limitations), emissions of sulfur dioxide from the following units shall not exceed the following limitations:

Unit Name	Unit ID	PM Limit (lbs/hr)
Gluten Dryer System	121-01-G	0.68
Fiber Drying Equipment	89-01-G	3.95
Germ Dryer/Cooler	124A-01-G	0.77

D.3.8 SO2 Emissions [326 IAC 7-4.1]

Pursuant to 326 IAC 7-4.1 (Lake County Sulfur Dioxide Emission Limitations), the sulfur dioxide emission rate from these units shall not exceed the following:

- (a) SO2 emissions from the stack serving the No. 2 Gluten Dryer (121A-01-G) shall not exceed 0.3 lb/MMBtu.
- (b) SO2 emissions from the stack serving the Germ Dryer/ Cooler (203-01-G) shall not exceed 0.3 lb/MMBtu.

D.3.9 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for each Grind and Feedhouse Area facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.3.10 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

- (a) In order to demonstrate compliance with Conditions D.3.1 and D.3.3, the Permittee shall perform PM and PM-10 testing on the Gluten Ring Dryer (121-01-G), utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM.
- (b) In order to demonstrate compliance with Conditions D.3.1 and D.3.5, the Permittee shall perform PM and PM10 testing for the No. 2 Gluten Dryer (121A-01-G) and the Germ Dryer/Cooler (203-01-G), within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup, utilizing methods as approved by the Commissioner. 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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM.
- (c) In order to demonstrate compliance with Condition D.3.1, the Permittee shall perform PM and PM10 testing for the Scrubber (CE89-01-G) controlling the Fiber Dryer (89-01-G) and the Bran Conveying System (89-08-G), within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup, utilizing methods as approved by the Commissioner. 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 the provisions of 326 IAC 3-6 (Source

Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensible PM.

- (d) In order to demonstrate compliance with Condition D.3.8, the Permittee shall perform SO₂ testing for the No. 2 Gluten Dryer (121A-01-G) and the Germ Dryer/Cooler (203-01-G), within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup, utilizing methods as approved by the Commissioner. 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 the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition.
- (e) In order to demonstrate compliance with Conditions D.3.1 and D.3.5, the Permittee shall perform PM and PM₁₀ testing for the No. 1 and No. 2 Bran Bunker (89-06-G and 89-07-G) and the Bran Preweigh Hopper (89-09-G), within sixty (60) days after achieving the maximum capacity, but not later than one hundred eighty (180) days after initial startup, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C - Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensible PM.

D.3.11 Particulate Matter [326 IAC 6.8-2] [326 IAC 2-7-6(6)] [326 IAC 2-2] [326 IAC 2-1.1-5]

- (a) In order to comply with D.3.1, D.3.3, D.3.4, and D.3.5, the control devices for PM and PM₁₀ control shall be in operation and control emissions from their associated facilities at all times that the facilities are in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (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.

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

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. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation

with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.3.13 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of units' 121-01-G, 121A-01-G, 203-01-G, 89-08-G, 124A-01-G, 200-05-G, 140-05-G, 140-01-G, 140-02-G, 140-03-G, and 140-04-G stack exhausts shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.3.14 Parametric Monitoring (Dust Collectors)

The Permittee shall record the 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Central Vacuum Loadout (200-07-G)	Dust Collector	0.1 - 6
Germ Tank 1310 (200-01-G)	Dust Collector	0.1 - 6
Gluten Tank 1410 (200-02-G)	Dust Collector	0.1 - 6
Corn Screenings Silo (200-06-G)	Dust Collector	0.1 - 6
Gluten Tank 1010 (200-04-G)	Dust Collector	0.1 - 6
Germ Tank 1110 (200-03-G)	Dust Collector	0.1 - 6
Corn Elevator Conveying (140-07-G)	Dust Collector	0.1 - 6
Gravity Take-up Conveyor (140-06-G)	Dust Collector	0.1 - 6
Corn Cleaner (33-03-G)	Dust Collector	0.1 - 6
Corn Screenings System (30-16-G)	Dust Collector	0.1 - 6
No. 1 and No. 2 Bran Bunkers (89-06-G)	Bin Vent	0.1-6
No. 2 Bran Bunker (89-07-G)	Bin Vent	0.1-6
Bran Preweigh Hopper (89-09-G)	Bin Vent	0.1-6

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.3.15 Parametric Monitoring (Dust Collectors) [40 CFR 64]

The Permittee shall record the 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Bulk Loadout (200-05-G)	Dust Collector	0.1 - 6
Corn Dump Pit (140-05-G)	Dust Collector	0.1 - 6

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.3.16 Parametric Monitoring (Scrubbers)

The Permittee shall record the 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 range or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following range or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Fiber Drying Equipment (89-01-G)	Scrubber	0.1 - 6

The instruments used for determining the pressure drop shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.3.17 Parametric Monitoring (Scrubbers) [40 CFR 64]

The Permittee shall record the 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Gluten Ring Dryer System (121-01-G)	Wet Scrubber	12 -19
No. 2 Gluten Dryer (121A-01-G)	Wet Scrubber	12-19
Germ Dryer/Cooler (203-01-G)	Wet Scrubber	6-12
Bran conveyor System (89-08-G)	Scrubber	0.1-6
Germ Dryer/Cooler (124A-01-G)	Scrubber	10-19

The instruments used for determining the pressure drop shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.3.18 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

D.3.19 Scrubber Failure Detection

In the event that a scrubber's 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 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.3.20 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.3.12 and D.3.13, the Permittee shall maintain a daily record of visible emission notations of the Grind and Feedhouse Area Facility stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document the compliance status with Condition D.3.14, D.3.15, D.3.16, and D.3.17, the Permittee shall maintain a daily record of the pressure drop readings. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).

- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.3.21 Reporting Requirements [326 IAC 7-4.1-5(b)]

A quarterly report of all SO₂ emissions from units' 121-01-G, 89-01-G, 124A-01-G, 104-01-R, and 800-04-E, to document the compliance status with 326 IAC 7-4.1-5(b) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (34).

SECTION D.4 FACILITY OPERATION CONDITIONS - Utility Area

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

IV. Utility Area

The Utility area includes the following boiler used to supply steam for plant processes.

- (ee) 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.

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

Pursuant to 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties), the following units have been removed from the source:

Unit Name	Unit ID
Boiler #1	10-01-U
Boiler #2	10-02-U
Boiler #6	10-03-U
Boiler #7	10-04-U
Boiler #8	10-05-U
Boiler #10	10-06-U

The shutdown of these units shall be permanent.

D.4.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for this facility. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

SECTION D.5

FACILITY OPERATION CONDITIONS - Refinery Area

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

V. Refinery Area

- (ff) Corn Syrup Solids Manufacturing System #2 (Unit ID 18-03-R), installed in July 1992, with a maximum throughput of 3.0 ton/hr. 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.
- (gg) Corn Syrup Spray Dryer #4 (Unit ID 100-03-R), installed in April 1992. Corn syrup is fed to a dryer at a maximum throughput of 4.8 ton/hr. 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.
- (hh) Corn Syrup Spray Dryer/Cooler System #3 (Unit ID 100-01-R), installed in July 1987. Corn syrup is fed to a dryer at a maximum rate of 4.8 ton/hr. 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.
- (ii) Activated Carbon Regeneration Furnace #2 (Unit ID 104-01-R), installed in July 1995. Spent carbon is regenerated in this 13.2 MMBtu/hr natural gas-fired furnace at a maximum throughput of 1.146 ton/hr. Emissions are controlled by a venturi scrubber and an impingement furnace scrubber (CE104-01-R) that exhaust through stack S104-01-R.
- (jj) Liquid Soda Ash Tank (Unit ID 104-02-R), installed in July 1995, with a maximum throughput of 15 ton/hr. Particulate emissions from loading this tank are controlled by a venturi scrubber (CE104-02-R) that exhausts to stack S104-02-R.
- (kk) Filter Aid Hopper (Unit ID 104-03-R), installed in July 1995, with a maximum throughput of 0.75 ton/hr. This hopper is equipped with a jet pulse baghouse (CE104-03-R) that exhausts to stack S104-03-R.
- (ll) Sodium Bisulfite Bag Dump (Unit ID 104-05-R), installed in July 1995, with a maximum throughput of 0.7 ton/hr. This unit is controlled by a jet pulse baghouse (CE104-05-R) that exhausts to stack S104-05-R.
- (mm) Diatomaceous Earth Unloading (Unit ID 104-08-R), installed in November 1998, with a maximum throughput of 1.75 ton/hr. 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.
- (nn) Citric Acid Dump Station (Unit ID 104-09-R), installed in November 1998, with a maximum throughput of 30 lb/hr. 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.
- (oo) Refinery Vacuum Pumps (1-3) (Unit IDs RVF 1-1, RVF 1-2, and RVF 1-3 Precoating Vacuum Pump), installed in July 1995. The pumps create the vacuum used to pull liquid corn syrup through a filtering media. Exhaust from the pumps is vented from the building.
- (pp) Refinery Vacuum Pumps (4-6) (Unit IDs RVF 3-1, RVF 3-2, and RVF 3-3 Precoating Vacuum Pump), installed in November 1999. The pumps create the vacuum used to pull liquid corn syrup through a filtering media. Exhaust from the pumps is vented from the building.

- (qq) Refinery Vacuum Pumps (7-8) (Unit IDs RVF 2-1 and RVF 2-2), installed in July 1995. The pumps create the vacuum used to pull liquid corn syrup through a filtering media. Exhaust from the pumps is vented from the building.
- (rr) Two (2) HCL tanks (Unit ID HCL Tank – Refinery), installed in July 1995 and December 2002. Tanks store HCl used in the corn syrup manufacturing process. The tanks vent to an acid fume scrubber.
- (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 6.8-2]

Pursuant to 326 IAC 6.8-2 (Lake County: PM10 Emission Requirements), 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)
Corn Syrup Solids Mfg System #2 (18-03-R)	0.01	0.30
Corn Syrup Spray Dryer #4 (100-03-R)	0.01	4.2
Corn Syrup Spray Dryer/Cooler System #3 (100-01-R)	0.015	4.96
Activated Carbon Regeneration Furnace #2 (104-01-R)	0.015	0.728
Liquid Soda Ash Tank (104-02-R)	0.02	0.154
Filter Aid Hopper (104-03-R)	0.02	0.044
Sodium Bisulfite Bag Dump (104-05-R)	0.02	0.080

D.5.2 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2(h)]

Pursuant to CP 089-1230-00203, issued November 1998, and 326 IAC 6.8-1-2(h) (Nonattainment Area Particulate Limitations), emissions of particulate matter shall be limited to the following:

Unit ID	PM Limit (gr/dscf)	PM Limit (lbs/hr)
Diatomaceous Earth Unloading Silo (104-08-R)	0.01	0.064
Citric Acid Dump Station (104-09-R)	0.01	0.026

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

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

(a) Emissions of VOC from the following units shall not exceed the following limitations:

Unit Name	Unit ID	VOC Limit (lbs/hr)
Corn Syrup Spray Dryer/Cooler System #3	100-01-R	0.50
Corn Syrup Spray Dryer #4	100-03-R	0.86
Corn Syrup Solids Mfg System #2	18-03-R	0.45

(b) The following units have been removed from the source:

Unit Name	Unit ID
Carbon Furnace – Old Refinery	Bldg 15
HCL Tanks – Old Refinery	17-04-R & 17-05-R

The shutdown of these units shall be permanent.

D.5.4 Lake County Sulfur Dioxide Emission Limitations [326 IAC 7-4.1-5]

Pursuant to 326 IAC 7-4.1-5 (Lake County Sulfur Dioxide Emission Limitations), emissions of sulfur dioxide from the Activated Carbon Regeneration Furnace #2 (Unit ID 104-01-R) shall not exceed 0.11 pounds per hour.

D.5.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for each Refinery Area facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.5.6 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Condition D.5.1, the Permittee shall perform PM-10 testing of the Corn Syrup Spray Dryer #4 (100-03-R) and the Corn Syrup Spray Dryer/Cooler System #3 (100-01-R) utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM.

D.5.7 Particulate Matter

- (a) In order to comply with D.5.1 and D.5.2, the control devices for PM and PM10 control shall be in operation and control emissions from each facility at all times that the facility is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (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.

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

D.5.8 Visible Emissions Notations

- (a) Visible emission notations of units' 104-02-R, 104-03-R, 104-05-R, 104-08-R, and 104-09-R stack exhaust shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.5.9 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of units' 18-03-R, 100-03-R, 100-01-R, and 104-01-R stack exhaust shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.5.10 Parametric Monitoring (Dust Collectors)

The Permittee shall record the 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Filter Aid Hopper (104-03-R)	Dust Collector	0.1 - 6
Sodium Bisulfite Bag Dump (104-05-R)	Dust Collector	0.1 - 6
Diatomaceous Earth Unloading Silo (104-08-R)	Bin Vent Filter	0.1 - 6
Citric Acid Dump Station (Unit ID 104-09-R).	Dust Collector	0.1 - 6

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.5.11 Parametric Monitoring (Dust Collectors) [40 CFR 64]

The Permittee shall record the 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 range or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following range or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Corn Syrup Solids Mfg System #2 (18-03-R)	Dust Collector	5 - 15

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.5.12 Parametric Monitoring (Scrubbers)

The Permittee shall record the 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 range or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following range or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Liquid Soda Ash Tank (104-02-R)	Wet Scrubber	0.25 – 10.0

The instrument used for determining the pressure drop shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.5.13 Parametric Monitoring (Scrubbers) [40 CFR 64]

The Permittee shall record the 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 range or a range established during the latest stack test, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following range or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Corn Syrup Spray Dryer #4 (100-03-R)	Wet Scrubber	1.0 – 8.0
Corn Syrup Spray Dryer/Cooler System #3 (100-01-R)	Wet Scrubber	0.1 – 6.0
Activated Carbon Regeneration Furnace #2 (104-01-R)	Wet Scrubber	0.1 - 8.0

The instrument used for determining the pressure drop shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.5.14 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

D.5.15 Scrubber Failure Detection

In the event that a scrubber's 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 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.5.16 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.5.8 and D.5.9, the Permittee shall maintain a daily record of the visible emission notations of the Refinery Area Facility stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document the compliance status with Conditions D.5.10, D.5.11, D.5.12, and D.5.13, the Permittee shall maintain a daily record of the pressure drop readings. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

D.5.17 Reporting Requirements [326 IAC 7-4.1-5(b)]

A quarterly report of all SO₂ emissions from units' 121-01-G, 89-01-G, 124A-01-G, 104-01-R, and 800-04-E, to document the compliance status with 326 IAC 7-4.1-5(b) shall be submitted not later than thirty (30) days after the end of the quarter being reported. Section C - General Reporting contains the Permittee's obligation with regard to the reporting required by this condition. The report submitted by the Permittee does require a certification that meets the requirements of 326 IAC 2-7-6(1) by a "responsible official," as defined by 326 IAC 2-7-1 (34).

SECTION D.6

FACILITY OPERATION CONDITIONS - Starch Production Area

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

VI. Starch Production Area

- (ss) Batch Scale Hopper #1 (Unit ID 34-01-S), installed in January 1991, with a maximum throughput of 24 ton/hr. 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.
- (tt) Dextrin Starch Reactor #1 (Unit ID 34-02-S), installed in January 1991, with a maximum throughput of 6 ton/hr. Dried cornstarch is fed to a reactor heated by steam from the plant boiler. Particulate emissions are controlled by a bag filter dust collector (CE34-02-S) that exhausts to stack S34-02-S.
- (uu) Dextrin Starch Cooler #1 (Unit ID 34-03-S), installed in January 1991, with a maximum throughput of 6 ton/hr. 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.
- (vv) Surge Hopper #1 (Unit ID 34-05-S), installed in January 1991, with a maximum throughput of 6 ton/hr. 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.
- (ww) Dextrin Feed Hoppers #1 and #2 (System #1) (Unit IDs 34-06-S and 34-07-S), installed in April 1993, each with a maximum throughput of 6 ton/hr. 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.
- (xx) Batch Scale Hopper #2 (Unit ID 34B-13-S), installed in October 1993, with a maximum throughput of 24 ton/hr. 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.
- (yy) Dextrin Starch Reactor #2 (Unit ID 34B-04-S), installed in October 1993, with a maximum throughput of 6 ton/hr. Dried cornstarch is fed to a reactor heated by steam from the plant boiler. Particulate emissions are controlled by a bag filter dust collector (CE34B-04-S) that exhausts to stack S34B-04-S.
- (zz) Dextrin Starch Cooler #2 (Unit ID 34B-01-S), installed in October 1993, with a maximum throughput of 6 ton/hr. Roasted cornstarch 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.
- (aaa) Surge Hopper #2 (Unit ID 34B-03-S), installed in October 1993, with a maximum throughput of 6 ton/hr. 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.
- (bbb) Dextrin Feed Hoppers #3 and #4 (System #2) (Unit IDs 34B-05-S and 34B-06-S), installed in October 1993, each with a maximum throughput of 6 ton/hr. 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.

- (ccc) Dextrin Bulk Loading Equipment (Unit ID 48-09-S), installed before 1977, with a maximum throughput of 30 ton/hr. 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.
- (ddd) Starch Ring Dryer #2 (Unit ID 59-03-S), installed in November 1993. Starch is fed to this 25 MMBtu/hr natural gas-fired ring dryer at a maximum throughput of 13.5 ton/hr. 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.
- (eee) Starch Ring Dryer #3 (Unit ID 125-01-S), installed in May 1980. Cornstarch is fed to this 62 MMBtu/hr natural gas-fired ring dryer at a maximum throughput of 26.55 ton/hr. 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.
- (fff) Special Starch Process with Starch Ring Dryer #4 (Unit ID 128-01-S), installed in December 1993. Corn starch is fed to this 30 MMBtu/hr natural gas-fired dryer at a maximum throughput of 12.5 ton/hr. 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.
- (ggg) Reactors #2 through #8 (Unit IDs 128-07-S through 128-13-S), installed in November 1988 (2-4) and December 1991 (5-8), each can process up to 40 tons of starch. Cornstarch and propylene oxide are reacted through Reactors 2, 3, 4, and 7 only. When propylene oxide is used, each reactor can use up to 5 tons of propylene oxide per batch. When propylene oxide is used in the starch reaction, VOC emissions are controlled by a thermal oxidizer that exhausts to stack S128-14-S.
- (hhh) Sodium Sulfate Storage Bin (Unit ID 128-25-S), installed in October 2000, with a maximum throughput of 1.1 ton/hr. Particulate emissions are controlled by a bin vent dust collector (FA1900), that exhausts to stack S128-25-S.
- (iii) Sodium Sulfate Weigh Bin (Unit ID 128-26-S), installed in October 2000, with a maximum throughput of 1.1 ton/hr. Particulate emissions are controlled by a bin vent dust collector (FA1950), that exhausts to stack S128-26-S.
- (jjj) Cornstarch Storage Bins #20 through #36 (Unit IDs 120-01-S through 120-17-S), installed in July 1990 and approved in 2011 for modification to increase airflow into Cornstarch Storage Bin No. 23 (ID 120-04-S) to allow for the dried starch from the No.2 Starch Dryer to directly convey starch to Cornstarch Storage Bin No. 23 (ID 120-04-S), each with a maximum throughput of 75 ton/hr. Cornstarch 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.
- (kkk) Waxy Cornstarch Bulk Storage Bins #95 through #98 (Unit IDs 126-01-S through 126-04-S), replaced in January 1996, each with a maximum throughput of 20.5 ton/hr. 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.
- (lll) Cornstarch Blending Systems #1 through #4 (Unit IDs 130-01-S through 130-04-S), installed in April 1988, each with a maximum throughput of 30 ton/hr. 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.
- (mmm) Dextrin Blender (Unit ID 130-05-S), installed in October 1993, with a maximum throughput of 30 ton/hr. 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.

(nnn) 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.

(ooo) Bldg 128 Tank Farm, installed in November 1999. Tanks include HCl, Acetic Anhydride, Sodium Bisulfate storage tanks, and the Acetic/Adipic mix tank. The tanks vent to an acid fume scrubber.

(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 6.8-2]

Pursuant to 326 IAC 6.8-2 (Lake County: PM10 Emission Requirements) 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)
Batch Scale Hopper #1 (34-01-S)	0.01	0.04
Dextrin Starch Reactor #1 (34-02-S)	0.01	0.180
Dextrin Starch Cooler #1 (34-03-S)	0.01	0.042
Surge Hopper #1 (34-05-S)	0.01	0.11
Dextrin Feed Hoppers #1 and #2 (34-06-S & 34-07-S)	0.01 each	0.030 each
Batch Scale Hopper #2 (34B-13-S)	0.01	0.067
Dextrin Starch Reactor #2 (34B-04-S)	0.01	0.179
Dextrin Starch Cooler #2 (34B-01-S)	0.01	0.042
Surge Hopper #2 (34B-03-S)	0.01	0.114
Dextrin Feed Hoppers #3 and #4 (34B-05-S & 34B-06-S)	0.01 each	0.030 each
Dextrin Bulk Loading Equipment (48-09-S)	0.01	0.26
Starch Ring Dryer #2 (59-03-S)	0.006	3.50
Starch Ring Dryer #3 (125-01-S)	0.006	3.50
Special Starch Process / Starch Ring Dryer #4 (128-01-S)	0.01	3.5
Cornstarch Storage Bins 20-36 (120-01-S to 120-17-S) only 5 may operate at one time	0.01 each	0.56 each
Waxy Cornstarch Storage Bins 95-98 (126-01-S to 126-04-S) only 1 may operate at a time	0.01 each	0.16 each
Cornstarch Blending Systems 1-4 (130-01-S to 130-04-S)	0.01	0.42
Dextrin Blender (130-05-S)	0.01	0.248

D.6.2 Particulate Matter Limitation for Lake County [326 IAC 6.8-1-2(h)]

Pursuant to 326 IAC 6.8-1-2(h) (Non-attainment Area Particulate Limitations), emissions of particulate matter shall be limited to the following.

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

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

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

(a) Emissions of VOC from the following units shall not exceed the following limitations:

Unit Name	Unit ID	VOC Limit (lbs/hr)
Cornstarch Storage Bin 20	120-01-S	0.05
Cornstarch Storage Bin 21	120-02-S	0.05
Cornstarch Storage Bin 22	120-03-S	0.05
Cornstarch Storage Bin 23	120-04-S	0.05
Cornstarch Storage Bin 24	120-05-S	0.05
Cornstarch Storage Bin 25	120-06-S	0.05
Cornstarch Storage Bin 26	120-07-S	0.05
Cornstarch Storage Bin 27	120-08-S	0.05
Cornstarch Storage Bin 28	120-09-S	0.05
Cornstarch Storage Bin 29	120-10-S	0.05
Cornstarch Storage Bin 30	120-11-S	0.05
Cornstarch Storage Bin 31	120-12-S	0.05
Cornstarch Storage Bin 32	120-13-S	0.05
Cornstarch Storage Bin 33	120-14-S	0.05
Cornstarch Storage Bin 34	120-15-S	0.05
Cornstarch Storage Bin 35	120-16-S	0.05
Cornstarch Storage Bin 36	120-17-S	0.05
Starch Ring Dryer #3	125-01-S	0.86
Starch Ring Dryer #4	128-01-S	0.90
Starch Reactors (4)	128-02-S thru 128-04-S & 128-07-S	0.06
Cornstarch Blending System 1	130-01-S	0.04
Cornstarch Blending System 2	130-02-S	0.04
Cornstarch Blending System 3	130-03-S	0.04
Cornstarch Blending System 4	130-04-S	0.04
Dextrin Blender	130-05-S	0.09
Batch Scale Hopper #1	34-01-S	0.07
Dextrin Starch Reactor #1	34-02-S	0.27
Dextrin Starch Cooler #1	34-03-S	0.06
Surge Hopper #1	34-05-S	0.17
Dextrin Feed Hopper #1	34-06-S	0.02
Dextrin Feed Hopper #2	34-07-S	0.02
Dextrin Starch Cooler #2	34B-01-S	0.06
Surge Hopper #2	34B-03-S	0.17
Dextrin Starch Reactor #2	34B-04-S	0.27
Dextrin Feed Hopper #3	34B-05-S	0.02
Dextrin Feed Hopper #4	34B-06-S	0.02

Unit Name	Unit ID	VOC Limit (lbs/hr)
Batch Scale Hopper #2	34B-13-S	0.10
Dextrin Bulk Loading	48-09-S	0.39
Starch Ring Dryer #2	59-03-S	1.19

(b) The following units have been removed from the source:

Unit Name	Unit ID
Starch Reactors (9)	Bldg 54
South Dextrin Furnace #1	Bldg 47
North Dextrin Furnace #2	Bldg 47

The shutdown of these units shall be permanent.

D.6.4 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for each Starch Production Area facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.6.5 Testing Requirements (PM10) [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11]

In order to demonstrate compliance with Condition D.6.1, the Permittee shall perform PM-10 testing of the Starch Ring Dryer #2 (59-03-S), Starch Ring Dryer #3 (125-01-S), and the Special Starch Process w/ Starch Ring Dryer #4 (128-01-S) utilizing methods as approved by the Commissioner at least once every five (5) years from the date of the most recent valid compliance demonstration. Testing shall be conducted in accordance with the provisions of 326 IAC 3-6 (Source Sampling Procedures). Section C – Performance Testing contains the Permittee's obligation with regard to the performance testing required by this condition. PM-10 includes filterable and condensable PM.

D.6.6 Volatile Organic Compounds (VOC) [326 IAC 2-1.1-5] [326 IAC 8-7-9] [326 IAC 8-7-10]

- (a) 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.
- (b) The Permittee shall operate the thermal oxidizer at all times propylene oxide is being added to special starch Reactors 2, 3, 4, and 7.

D.6.7 Particulate Matter

- (a) In order to comply with D.6.1 and D.6.2, the control devices for PM and PM10 control shall be in operation and control emissions from each facility at all times that the facility is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (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.

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

D.6.8 Visible Emissions Notations

- (a) Visible emission notations of units' 34-01-S, 34-02-S, 34-03-S, 34-05-S, 34-06-S, 34-07-S, 34B-13-S, 34B-04-S, 34B-01-S, 34B-03-S, 34B-05-S, 34B-06-S, 128-25-S, and 128-26-S stack exhaust shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.6.9 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of units' 48-09-S, 59-03-S, 125-01-S, 128-01-S, 120-01-S through 120-17-S, and 130-01-S through 130-05-S stack exhaust shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.6.10 Parametric Monitoring (Dust Collectors)

The Permittee shall record the pressure drop across each control device used in the Starch Production Area at least once per day when the associated facility 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a

deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Batch Scale Hopper #1 (34-01-S)	Dust Collector	0.1 - 6
Dextrin Starch Reactor #1 (34-02-S)	Dust Collector	0.1 - 6
Dextrin Starch Cooler #1 (34-03-S)	Dust Collector	0.1 - 6
Surge Hopper #1 (34-05-S)	Dust Collector	0.1 - 6
Dextrin Feed Hoppers #1 and #2 (34-06-S & 34-07-S)	Dust Collectors	0.1 – 6 each
Batch Scale Hopper #2 (34B-13-S)	Dust Collector	0.1 - 6
Dextrin Starch Reactor #2 (34B-04-S)	Dust Collector	0.1 - 6
Dextrin Starch Cooler #2 (34B-01-S)	Dust Collector	0.1 - 6
Surge Hopper #2 (34B-03-S),	Dust Collector	0.1 - 6
Dextrin Feed Hoppers #3 and #4 (34B-05-S & 34B-06-S)	Dust Collector	0.1 – 6 each
Sodium Sulfate Storage Bin (128-25-S)	Dust Collector	0.1 - 6
Sodium Sulfate Weigh Bin (128-26-S)	Dust Collector	0.1 - 6
Waxy Cornstarch Storage Bins 95-98 (126-01-S to 126-04-S)	Dust Collectors	0.1 - 6 each

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.6.11 Parametric Monitoring (Dust Collectors) [40 CFR 64]

The Permittee shall record the pressure drop across each control device used in the Starch Production Area at least once per day when the associated facility 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Dextrin Bulk Loading Equipment (48-09-S)	Dust Collector	0.1 - 6
Cornstarch Storage Bins 20-36 (120-01-S to 120-17-S)	Dust Collectors	0.1 - 6 each
Cornstarch Blending Systems 1-4 (130-01-S to 130-04-S)	Dust Collectors	0.1 - 6 each
Dextrin Blender (130-05-S)	Dust Collector	0.1 - 6

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.6.12 Parametric Monitoring (Scrubbers) [40 CFR 64]

The Permittee shall record the pressure drop across each scrubber used in the Starch Production 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Starch Ring Dryer #2 (59-03-S)	Wet Scrubber	1.0 – 11.0
Starch Ring Dryer #3 (125-01-S)	Wet Scrubber	5 - 17
Special Starch Process / Starch Ring Dryer #4 (128-01-S)	Wet Scrubber	0.1 - 10

The instrument used for determining the pressure drop shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.6.13 Parametric Monitoring (Thermal Oxidizer) [326 IAC 2-1.1-5] [326 IAC 8-7-9] [326 IAC 8-7-10] [40 CFR 64]

- (a) A continuous monitoring system shall be calibrated, maintained, and operated on the thermal oxidizer for measuring operating temperature. For the purpose of this condition, continuous means no less often than once per minute. The output of this system shall be recorded as a 3-hour average.
- (b) 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.
- (c) 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.
- (d) A temperature reading that is outside the above-mentioned range is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

D.6.14 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

D.6.15 Scrubber Failure Detection

In the event that a scrubber's 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 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.6.16 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.6.8 and D.6.9, the Permittee shall maintain a daily record of visible emission notations of the Starch Production Area stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document the compliance status with Conditions D.6.10, D.6.11, and D.6.12, the Permittee shall maintain a daily record of the pressure drop readings. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (c) To document the compliance status with Condition D.6.13, the Permittee shall maintain a daily record of the thermal oxidizer temperature. The Permittee shall include in its daily record when a thermal oxidizer temperature reading is not taken and the reason for the lack of thermal oxidizer temperature reading (e.g. the process did not operate that day).
- (d) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.7 FACILITY OPERATION CONDITIONS - Starch Warehouse Area

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

VII. Starch Warehouse Area

- (ppp) Channel 2 Receiver (Unit ID 93-32-W), installed in September 2000, with a maximum throughput of 15 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-32-W.
- (qqq) Channel 3 Receiver (Unit ID 93-33-W), installed in September 2000, with a maximum throughput of 25 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-33-W.
- (rrr) Channel 4 Receiver (Unit ID 93-34-W), installed in September 2000, with a maximum throughput of 15 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-34-W.
- (sss) Channel 6 Receiver (Unit ID 93-35-W), installed in September 2000, with a maximum throughput of 4.5 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-35-W.
- (ttt) Channel 4/6 Packing (Unit ID 93-37-W), installed in September 2000, with a maximum throughput of 40 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-37-W.
- (uuu) Channel 2/3 Packing (Unit ID 93-36-W), installed in September 2000, with a maximum throughput of 40 ton/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-36-W.
- (vvv) Central Vacuum System (Unit ID 93-38-W), installed in October 2000, with a maximum throughput of 100 lb/hr. Particulate emissions are controlled by a filter dust collector that exhausts to stack S93-38-W.
- (www) Dried Corn Syrup Conveying System (Unit ID 93-04-W), installed in July 1976, with a maximum throughput of 15 ton/hr. Particulate emissions are controlled by a baghouse (CE93-04-W) that exhausts to stack S93-04-W.
- (xxx) Corn Syrup Solids Conveying System (Unit ID 93-05-W), installed in July 1976, with a maximum throughput of 10 ton/hr. Particulate emissions are controlled by a baghouse (CE93-05-W) that exhausts to stack S93-05-W.
- (yyy) Frodex Semi-bulk Packing System (Unit ID 93-08-W), installed in September 1989, with a maximum throughput of 10 ton/hr. Particulate emissions are controlled by a baghouse (CE93-08-W) that exhausts to stack S93-08-W.
- (zzz) Cornstarch Bag Dumping Stations #1 and #2 (Unit IDs 93-09-W and 93-10-W), installed in April 1988, each with a maximum throughput of 1.2 ton/hr. 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.
- (aaaa) Starch Bulk Loading (Unit ID 93-14-W), installed in April 1995, with a maximum throughput of 30 ton/hr. Particulate emissions are controlled by a baghouse (CE93-14-W) that exhausts to stack S93-14-W.

- (bbbb) Starch Bulk Loading Vacuum Cleanup System (Unit ID 93-15-W), installed in February 1994, with a maximum throughput of 1 ton/hr. Cleanup for cornstarch spills. Particulate emissions are controlled by bag filter dust collector (CE93-15-W) that exhausts to stack S93-15-W.
- (cccc) Starch Mixing and Bulk Bagging Systems #1 and #2 (Unit IDs 93-16-W and 93-17-W), installed in August 1995, each with a maximum throughput of 25 ton/hr and 12.5 ton/hr, respectively. Particulate emissions are controlled by baghouses (CE93-16-W and CE93-17-W) that exhaust to stacks S93-16-W and S93-17-W.
- (dddd) P.G. Starch Receiver (Unit ID 93-18-W), installed in September 1999, with a maximum throughput of 3 ton/hr. 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.
- (eeee) P.G. Starch Packing (Unit ID 93-39-W), installed in January 2000, with a maximum throughput of 3 ton/hr. Particulate emissions are controlled by a dust collector (CE93-39-W) that exhausts to stack S93-39-W.
- (ffff) Corn Syrup Solids Manufacturing System #5, approved in 2010 for construction, identified as Unit ID 93-40-W, with a maximum capacity of 6,000 lbs/hr (dry basis), using dust collector (CE93-40-W) as control, and exhausting to stack S93-40-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 PSD and Nonattainment NSR Minor Limits [326 IAC 2-2][326 IAC 2-1.1-5]

In order to render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment NSR) not applicable, the PM₁₀ and PM_{2.5} emissions from stack S93-40-W shall be less than the emission limits listed in the table below:

Equipment Description	Stack ID	PM ₁₀ Emission Limit (lb/hr)	PM _{2.5} Emission Limit (lb/hr)
Corn Syrup Solids Manufacturing System #5 (new)	stack S93-40-W	3.31	2.17

Compliance with the above limits, shall limit the PM emissions from stack S93-40-W to less than twenty-five (25) tons per twelve (12) consecutive month period and the PM₁₀ emissions from stack S93-40-W to less than fifteen (15) tons per twelve (12) consecutive month period and the PM_{2.5} emissions from stack S93-40-W to less than ten (10) tons per twelve (12) consecutive month period. Compliance with the above limits renders the requirements of 326 IAC 2-2 (PSD) not applicable. Compliance with the PM₁₀ and PM_{2.5} limits also satisfies the PM_{2.5} requirements of 326 IAC 2-1.1-5 (Non-Attainment NSR).

D.7.2 Particulate Matter less than 10 microns in diameter (PM₁₀) [326 IAC 6.8-1-2(a)]

Pursuant to 326 IAC 6.8-1-2(a), particulate matter (PM) emissions from the Corn Syrup Solids Manufacturing System #5 (Unit ID 93-40-W) shall not exceed three-hundredths (0.03) grain per dry standard cubic foot (dscf).

D.7.3 Particulate Matter Limitations for Lake County [326 IAC 6.8-1-2(h)]

Pursuant to 326 IAC 6.8-1-2(h) (Non-attainment Area Particulate Limitations), emissions of particulate matter from the following units shall be limited to the following:

Unit ID	PM Limit (gr/dscf)	PM Limit (lbs/hr)
Channel 2 Receiver (93-32-W)	0.005	0.10
Channel 3 Receiver (93-33-W)	0.005	0.10
Channel 4 Receiver (93-34-W)	0.005	0.10
Channel 6 Receiver (Dextrin) (93-35-W)	0.005	0.10
Channel 4/6 Packing (Dextrin)(93-37-W)	0.005	0.51
Channel 2/3 Packing (93-36-W)	0.005	0.51
Central Vacuum System (93-38-W)	0.005	0.02
P.G. Starch Receiver (93-18-W)	0.01	0.343
P.G. Starch Packing (Unit ID 93-39-W)	0.01	0.13

D.7.4 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2 (Lake County PM10 Emission Requirements), 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)
Dried Corn Syrup (Frodex) Conveying System (93-04-W)	0.01	0.069
Corn Syrup Solids Conveying System (93-05-W)	0.01	0.066
Frodex Semi-bulk Packing System (93-08-W)	0.01	0.083
Cornstarch Bag Dump Stations 1 & 2 (93-09-W and 93-10-W)	0.01 each	0.10 each
Starch Bulk Loading (93-14-W)	0.01	0.273
Starch Bulk Loading Vacuum Cleanup System (93-15-W)	0.01	0.021
Starch Mixing and Bulk Bagging System #1 (93-16-W)	0.01	0.130
Starch Mixing and Bulk Bagging System #2 (93-17-W)	0.01	0.264

D.7.5 VOC Emissions [326 IAC 8-7] [326 IAC 2-7-6(3)] [326 IAC 2-7-15]

Pursuant to 326 IAC 8-7 (Specific VOC Reduction Requirements for Lake, Porter, Clark and Floyd Counties), emissions of VOC from the following units shall not exceed the following limitations:

Unit Name	Unit ID	VOC Limit (lbs/hr)
Dried Corn Syrup Conveying System	93-04-W	0.03
Corn Syrup Solids Conveying System	93-05-W	0.03
Frodex Semi-Bulk Packing System	93-08-W	0.03
Corn Starch Bag Dumping Station #1	93-09-W	0.02
Corn Starch Bag Dumping Station #2	93-10-W	0.02
Starch Bulk Loading	93-14-W	0.09
Starch Bulk Loading Vacuum	93-15-W	0.01

D.7.6 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan is required for each Starch Production Area facility and its control device. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

Compliance Determination Requirements

D.7.7 Particulate Matter and Particulate Matter less than 10 microns in diameter (PM10) Control

- (a) In order to comply with D.7.1, D.7.2, D.7.3, and D.7.4, the control devices for PM and PM10 control shall be in operation and control emissions from each facility at all times that the facility is in operation.
- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (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.

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

D.7.8 Visible Emissions Notations

- (a) Visible emission notations of 93-32-W, 93-33-W, 93-34-W, 93-35-W, 93-37-W, 93-36-W, 93-38-W, 93-04-W, 93-05-W, 93-08-W, 93-09-W, 93-10-W, 93-15-W, 93-18-W, 93-39-W, and 93-40-W stack exhaust shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation

with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.7.9 Visible Emissions Notations [40 CFR 64]

- (a) Visible emission notations of units' 93-14-W, 93-16-W, and 93-17-W stack exhaust shall be performed once per day during normal daylight operations. 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) If abnormal emissions are observed, the Permittee shall take reasonable response steps. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. Failure to take response steps shall be considered a deviation from this permit.

D.7.10 Parametric Monitoring

The Permittee shall record the 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Channel 2 Receiver (93-32-W)	Dust Collector	0.1 - 6
Channel 3 Receiver (93-33-W)	Dust Collector	0.1 - 6
Channel 4 Receiver (93-34-W)	Dust Collector	0.1 - 6
Channel 6 Receiver (Dextrin) (93-35-W)	Dust Collector	0.1 - 6
Channel 4/6 Packing (Dextrin) (93-37-W)	Dust Collector	0.1 - 6
Channel 2/3 Packing (93-36-W)	Dust Collector	0.1 - 6
Central Vacuum System (93-38-W)	Dust Collector	0.1 - 6
Dried Corn Syrup (Frodex) Conveying System (93-04-W)	Dust Collector	0.1 - 6
Corn Syrup Solids Conveying System (93-05-W)	Dust Collector	0.1 - 6
Frodex Semi-bulk Packing System (93-08-W)	Dust Collector	0.1 - 6
Cornstarch Bag Dump Stations 1 & 2 (93-09-W and 93-10-W)	Dust Collectors	0.1 - 6 each
Starch Bulk Loading Vacuum Cleanup System (93-15-W)	Dust Collector	0.1 - 6
P.G. Starch Receiver (93-18-W)	Dust Collector	0.1 - 6

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
P.G. Starch Packing (Unit ID 93-39-W)	Dust Collector	0.1 - 6
Corn Syrup Solids Mfg System #5 (93-40-W)	Dust Collector	1.0 - 8.0

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.7.11 Parametric Monitoring [40 CFR 64]

The Permittee shall record the 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Starch Bulk Loading (93-14-W)	Dust Collector	0.1 - 6
Starch Mix and Bulk Bag Systems 1 & 2 (93-16-W and 93-17-W)	Dust Collectors	0.1 - 6 each

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

D.7.12 Broken or Failed Bag Detection

- (a) For a single compartment baghouse controlling emissions from a process operated continuously, a failed unit and the associated process shall be shut down immediately until the failed unit has 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).
- (b) For a single compartment baghouse controlling emissions from a batch process, the feed to the process shall be shut down immediately until the failed unit has been repaired or replaced. The emissions unit shall be shut down no later than the completion of the processing of the material in the emissions unit. 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).

Bag failure can be indicated by a significant drop in the baghouse's pressure reading with abnormal visible emissions, by an opacity violation, or by other means such as gas temperature, flow rate, air infiltration, leaks or dust traces.

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

D.7.13 Record Keeping Requirements

- (a) To document the compliance status with Conditions D.7.8 and D.7.9, the Permittee shall maintain a daily record of the visible emission notations of the Starch Warehouse Area stack exhausts. The Permittee shall include in its daily record when a visible emission notation is not taken and the reason for the lack of visible emission notation (e.g. the process did not operate that day).
- (b) To document the compliance status with Conditions D.7.10 and D.7.11, the Permittee shall maintain a daily record of the pressure drop readings. The Permittee shall include in its daily record when a pressure drop reading is not taken and the reason for the lack of a pressure drop reading (e.g. the process did not operate that day).
- (c) Section C - General Record Keeping Requirements contains the Permittee's obligations with regard to the records required by this condition.

**SECTION E.1 NEW SOURCE PERFORMANCE STANDARDS FOR INDUSTRIAL-COMMERCIAL-
INSTITUTIONAL STEAM GENERATING UNITS (40 CFR 60, Subpart Db)**

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

- (ee) 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.

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

**E.1.1 General Provisions Relating to the NSPS for Industrial-Commercial-Institutional Steam
Generating Units [326 IAC 12-1] [40 CFR 60, Subpart A]**

- (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 Industrial-Commercial-Institutional Steam Generating Units as specified in 40 CFR 60, Subpart Db.
- (b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

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

**E.1.2 NSPS for Industrial-Commercial-Institutional Steam Generating Units Requirements
[40 CFR 60, Subpart Db]**

Pursuant to 40 CFR 60, Subpart Db, the Permittee shall comply with the provisions of the New Source Performance Standard for Industrial-Commercial-Institutional Steam Generating Units (included as attachment A of this permit), as specified as follows:

- (1) 40 CFR 60.40 (a) and (j)
(2) 40 CFR 60.41
(3) 40 CFR 60.44 (a)(1), (h), and (i)
(4) 40 CFR 60.46 (a) and (e)(1)
(5) 40 CFR 60.48 (b)(1), (c), (d), (e)(2)(3), and (f)
(6) 40 CFR 60.49 (a)(1)(3), (b), (d), (g), (i), (o), (v), and (w)

E.1.3 One Time Deadlines Relating to NSPS 60, 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.

SECTION E.2 NEW SOURCE PERFORMANCE STANDARDS FOR VOLATILE ORGANIC LIQUID STORAGE VESSELS FOR WHICH CONSTRUCTION, RECONSTRUCTION, OR MODIFICATION COMMENCED AFTER JULY 23, 1984 (40 CFR 60, Subpart Kb)

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

- (nnn) 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.

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

E.2.1 General Provisions Relating to the NSPS for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 [326 IAC 12-1] [40 CFR 60, Subpart A]

- (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 Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 as specified in 40 CFR 60, Subpart Kb.
- (b) Pursuant to 40 CFR 60.10, the Permittee shall submit all required notifications and reports to:

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

E.2.2 NSPS for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 [40 CFR 60, Subpart Kb]

Pursuant to 40 CFR 60, Subpart Kb, the Permittee shall comply with the provisions of the New Source Performance Standard for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction, or Modification Commenced after July 23, 1984 (included as attachment B of this permit), as specified as follows:

- (1) 40 CFR 60.110b(a)
(2) 40 CFR 60.111b
(3) 40 CFR 60.112b(a)(3)
(4) 40 CFR 60.113b(c)
(5) 40 CFR 60.115b(c)
(6) 40 CFR 60.116b(a), (b), (c), and (e)(3)(i)

SECTION E.3 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR ORGANIC LIQUIDS DISTRIBUTION (40 CFR 63, Subpart EEEE)

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

- (nnn) 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.

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

E.3.1 General Provisions Relating to NESHAP EEEE [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.4480, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart EEEE in accordance with schedule in 40 CFR 63 Subpart EEEE.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

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

E.3.2 Organic Liquids Distribution NESHAP [326 IAC 20-81][40 CFR Part 63, Subpart EEEE]

The Permittee which engages in organic liquid distribution with the following provisions of 40 CFR 63, Subpart EEEE (included as Attachment C of this permit), as specified as follows:

- (1) 40 CFR 63.2330
- (2) 40 CFR 63.2334(a)
- (3) 40 CFR 63.2338(b)(2), (3)(ii) - (iv), and (4)
- (4) 40 CFR 63.2341(b)(1)
- (5) 40 CFR 63.2343(c)(1)(i), (c)(2)(i), (c)(2)(ii), (c)(3), (d)(1), and (d)(4)
- (6) 40 CFR 63.2346(c)
- (7) 40 CFR 63.2378(b)(1) - (3) and (c)
- (8) 40 CFR 63.2382(b)(1)
- (9) 40 CFR 63.2386(a), (b)(1) - (3), (c)(1) - (3), (c)(6), (c)(8), (c)(10), (d)(2)(i), (d)(3) - (4), and (e)
- (10) 40 CFR 63.2390(a) and (d)
- (11) 40 CFR 63.2394
- (12) 40 CFR 63.2396(a)(3)
- (13) 40 CFR 63.2398
- (14) 40 CFR 63.2402
- (15) 40 CFR 63.2406

SECTION E.4 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR MAJOR SOURCES: INDUSTRIAL, COMMERCIAL, AND INSTITUTIONAL BOILERS AND PROCESS HEATERS (40 CFR 63, Subpart DDDDD)

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

- (ee) 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.

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

E.4.1 General Provisions Relating to NESHAP DDDDD [326 IAC 20-1] [40 CFR Part 63, Subpart A]

- (a) Pursuant to 40 CFR 63.7565, the Permittee shall comply with the provisions of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1, as specified in 40 CFR Part 63, Subpart DDDDD in accordance with schedule in 40 CFR 63 Subpart DDDDD.

- (b) Pursuant to 40 CFR 63.10, the Permittee shall submit all required notifications and reports to:

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

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

E.4.2 Industrial, Commercial, and Institutional Boilers and Process Heaters NESHAP [326 IAC 20-95][40 CFR Part 63, Subpart DDDDD]

Pursuant to 40 CFR 63, Subpart DDDDD, the Permittee shall comply with the provisions of the National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters (included as attachment D of this permit), as specified as follows:

- (1) 40 CFR 63.7480
- (2) 40 CFR 63.7485
- (3) 40 CFR 63.7490(a)(1), (d)
- (4) 40 CFR 63.7495(b), (d)
- (5) 40 CFR 63.7499(l)
- (6) 40 CFR 63.7500(a)(1), (3)
- (7) 40 CFR 63.7501
- (8) 40 CFR 63.7505(a)
- (9) 40 CFR 63.7515(e)
- (10) 40 CFR 63.7540(a)(10), (b)
- (11) 40 CFR 63.7545(a), (b)

- (12) 40 CFR 63.7550(a), (b), (c), (d)
- (13) 40 CFR 63.7555(a)
- (14) 40 CFR 63.7560
- (15) 40 CFR 63.7565
- (16) 40 CFR 63.7570
- (17) 40 CFR 63.7575
- (18) Table 3 - Work Practice Standards
- (19) Table 9 - Reporting Requirements
- (20) Table 10 - Applicability of General Provisions to Subpart DDDDD

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Cargill, Inc.
Source Address: 1100 Indianapolis Blvd, Hammond, Indiana 46320
Part 70 Permit No.: T089-27009-00203

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 AND ENFORCEMENT BRANCH
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
Phone: (317) 233-0178
Fax: (317) 233-6865**

**PART 70 OPERATING PERMIT
EMERGENCY OCCURRENCE REPORT**

Source Name: Cargill, Inc.
Source Address: 1100 Indianapolis Blvd, Hammond, Indiana 46320
Part 70 Permit No.: T089-27009-00203

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 317-233-0178, ask for Compliance Section); and
 - The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16.

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

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

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

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N
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: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 N. Senate Avenue
Indianapolis, IN 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

Part 70 Quarterly Report

Source Name: Cargill, Inc.
Source Address: 1100 Indianapolis Blvd, Hammond, Indiana 46320
Part 70 Permit No.: T089-27009-00203
Facility: 800-04-E
Parameter: Total SO2 emissions
Limits: Less than forty (40) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Quarter _____ YEAR: _____

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

- No deviations occurred in this quarter.
- Deviation/s occurred in this quarter.

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 N. Senate Avenue
Indianapolis, IN 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

Part 70 Quarterly Report

Source Name: Cargill, Inc.
Source Address: 1100 Indianapolis Blvd, Hammond, Indiana 46320
Part 70 Permit No.: T089-27009-00203
Facility: 800-04-E
Parameter: Total H2S emissions
Limits: Less than ten (10) tons per twelve (12) consecutive month period with compliance determined at the end of each month.

Quarter _____ YEAR: _____

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

- No deviations occurred in this quarter.
- Deviation/s occurred in this quarter.

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 N. Senate Avenue
Indianapolis, IN 46204-2251
Phone: 317-233-0178
Fax: 317-233-6865**

Part 70 Quarterly Report

Source Name: Cargill, Inc.
Source Address: 1100 Indianapolis Blvd, Hammond, Indiana 46320
Part 70 Permit No.: T089-27009-00203
Facility: 121-01-G, 89-01-G, 124A-01-G, 104-01-R, and 800-04-E
Parameter: Total SO2 emissions - 326 IAC 7-4.1-5(b)
Limits: quarterly report of the 12 month rolling average of SO2 emissions

Quarter _____ YEAR: _____

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

- No deviations occurred in this quarter.
- Deviation/s occurred in this quarter.

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
PART 70 OPERATING PERMIT
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Cargill, Inc.
Source Address: 1100 Indianapolis Blvd, Hammond, Indiana 46320
Part 70 Permit No.: T089-27009-00203

Months: _____ to _____ Year: _____

Page 1 of 2

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

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

**Technical Support Document (TSD) for a Part 70 Administrative
Amendment**

Source Description and Location

Source Name:	Cargill, Inc.
Source Location:	1100 Indianapolis Blvd., Hammond, IN 46320
County:	Lake
SIC Code:	2046
Operation Permit No.:	T 089-27009-00203
Operation Permit Issuance Date:	June 13, 2011
Administrative Amendment No.:	089-31149-00203
Permit Reviewer:	Aida DeGuzman

Existing Approvals

The source was issued Part 70 Operating Permit Renewal No. 089-27009-00203 on June 13, 2011.

There have been no approvals issued to the source after the issuance of the Part 70 Operating Permit Renewal.

County Attainment Status

The source is located in Lake County.

Pollutant	Designation
O ₂	Better than national standards.
CO	Attainment effective February 18, 2000, for the part of the city of East Chicago bounded by Columbus Drive on the north; the Indiana Harbor Canal on the west; 148 th Street, if extended, on the south; and Euclid Avenue on the east. Unclassifiable or attainment effective November 15, 1990, for the remainder of East Chicago and Lake County.
O ₃	Attainment effective May 11, 2010, for the 8-hour ozone standard. ¹
PM ₁₀	Attainment effective March 11, 2003, for the cities of East Chicago, Hammond, Whiting, and Gary. Unclassifiable effective November 15, 1990, for the remainder of Lake County.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.
¹ 1Nonattainment Severe 17 effective November 15, 1990, for the Chicago-Gary-Lake County area for the 1-hour ozone standard which was revoked effective June 15, 2005. Basic nonattainment designation effective federally April 5, 2005, for PM2.5.	

(a) Ozone Standards

Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to ozone. Lake County has

been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

(b) PM_{2.5}

U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM_{2.5}. On March 7, 2005, the Indiana Attorney General's Office, on behalf of IDEM, filed a lawsuit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's New Source Review Rule for PM_{2.5} promulgated on May 8, 2008. These rules became effective on July 15, 2008. Therefore, direct PM_{2.5} and SO₂ emissions were reviewed pursuant to the requirements of Nonattainment New Source Review, 326 IAC 2-1.1-5. See the State Rule Applicability – Entire Source section.

(c) Other Criteria Pollutants

Lake County has been classified as attainment or unclassifiable in Indiana for all the other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

The existing source includes a grain elevator, which supports the wet corn milling plant that has an applicable New Source Performance Standard (Subpart DD) that was in effect on August 7, 1980, Even though Cargill's grain elevator is not subject to this NSPS, its fugitive emissions are counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

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

Pollutant	Emissions (ton/yr)
PM	200.57
PM ₁₀	206.00
PM _{2.5}	204.92
SO ₂	474.92
VOC	599.94
CO	583.59
NO _x	345.61
GHG	>100,0000

- (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, emissions of GHG are equal to or greater than one hundred thousand (100,000) tons of CO₂ equivalent (CO₂e) emissions per year, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(ff)(1).
- (b) This existing source is a major stationary source, under Emission Offset (326 IAC 2-3), because PM_{2.5}, a nonattainment regulated pollutant, is emitted at a rate of 100 tons per year or more.
- (c) These emissions are based upon the Part 70 Operating Permit Renewal 089-27009-00203, issued on June 13, 2011.

- (d) This existing source is a major source of HAPs, as defined in 40 CFR 63.2, because HAP emissions are greater than ten (10) tons per year for a single HAP and greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed an Administrative Amendment application, submitted by Cargill, Inc. on November 15, 2011, relating to the modification of the existing bin system in the starch production area.

Cargill will be eliminating the Starch Milling Units Nos. 1 and 2 (ID Nos. 59-01S and 59-02-S) and their associated dust collectors (CE59-01-S and CE59-02-S). This modification will allow the dried starch from the No. 2 Starch Dryer to transfer directly to Cornstarch Storage Bin No. 23 (ID No. 120-04-S). The modification will require the increase in the blower output to Bin 23 and will result in an increase in the airflow into the cornstarch storage bin.

Enforcement Issues

There are no pending enforcement actions related to this modification.

Emission Calculations

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

Permit Level Determination – Part 70

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

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE calculated based upon the federally enforceable limit of 0.01 gr/dscf and 0.56 lb/hour both in the SIP and the Part 70 Operating Permit.

PTE Change of the Modified Process			
Starch Handling into Cornstarch Storage Bin No. 23			
Pollutant	PTE Before Modification (ton/yr)	PTE After Modification (ton/yr)	Increase from Modification (ton/yr)
PM	0.49	2.45	1.96
PM ₁₀	0.49	2.45	1.96
PM _{2.5}	0.49	2.45	1.96
SO ₂	-	-	-
VOC	-	-	-
CO	-	-	-
NO _x	-	-	-
HAPs	-	-	-

- (a) The proposed operational change to the starch handling will result in a PTE of less than 5 tons per year emissions increase for PM and PM₁₀, which is considered exempt under

326 IAC 2-7-10.5. Therefore, the change will be incorporated into the Part 70 Operating Permit through an administrative amendment under 326 IAC 2-7-11.

Permit Level Determination – PSD and Nonattainment New Source Review

The table below summarizes the potential to emit, reflecting all limits, of the emission unit that was already made federally enforceable into the SIP and the Part 70 Operating Permit.

Permit Level Determination – PSD Actual to PTE Test

The Permittee has provided information as part of the application for this approval that, based on Actual to Future PTE/Allowable test in 326 IAC 2-2-2(d)(3), this modification at a major stationary source will not be major for Prevention of Significant Deterioration under 326 IAC 2-2-1. IDEM, OAQ has not reviewed this information and will not be making any determination in this regard as part of this approval. The applicant will be required to keep records and report in accordance with Source obligation in 326 IAC 2-2-8.

Process / Emission Unit	Actual to PTE (ton/yr)						
	CO	NO _x	PM	PM ₁₀	PM _{2.5}	SO ₂	VOC
Baseline Actual (Starch Handling into Cornstarch Storage Bin No. 23)	0.00	0.00	0.35	0.35	0.35	0.00	0.00
PTE (Starch Handling into Cornstarch Storage Bin No. 23)	0.00	0.00	2.45	2.45	2.45	0.00	0.00
Emissions Increase	0.00	0.00	2.11	2.11	2.11	0.00	0.00
PSD Significant Levels	100	40	25	15	-	40	40
Nonattainment NSR Significant Level	-	-	-	-	10	-	-

- (a) 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.
- (b) This modification to an existing major stationary source is not major because the emissions increase is less than the Nonattainment NSR significant level. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment NSR requirements do not apply.

Note: With the operational change, Cornstarch Storage Bin No. 23 will still be able to meet the same limit in the SIP (326 IAC 6.8-2-8) and Condition D.6.1 of the Part 70 Operating Permit.

This emission unit was not included in the Netting done in SSM 089-25241-00203, issued on May 20, 2008.

Federal Rule Applicability Determination

- (a) The change in the method of operation for the starch handling into Cornstarch Storage Bin No. 23 will not affect the federal rule applicability determination already made for this operation.

State Rule Applicability Determination

The following state rules are applicable to the source due to the modification:

- (a) **326 IAC 2-1.1-5 (Nonattainment New Source Review)**
Nonattainment New Source Review applicability is discussed under the Permit Level Determination – PSD and Nonattainment New Source Review section.
- (b) **326 IAC 2-2 (PSD)**
PSD applicability is discussed under the Permit Level Determination – PSD and Nonattainment New Source Review section.
- (c) The change in the method of operation for the starch handling into Cornstarch Storage Bin No. 23 will not affect the state rule applicability determination already made for this operation.

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.

Proposed Changes

The changes listed below have been made to Part 70 Operating Permit No. (T089-27009-00203). Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

Sections A.2, D.0 and D.6 have been revised as follows:

Section A.2

~~(eee) Starch Milling Systems #1 and #2 (Unit IDs 59-01-S and 59-02-S), installed in July 1976, each with a maximum throughput of 15 ton/hr. 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.~~

~~(kkk jji)~~ **jjj) Cornstarch Storage Bins #20 through #36 (Unit IDs 120-01-S through 120-17-S), installed in July 1990 and approved in 2011 for modification to increase airflow into Cornstarch Storage Bin No. 23 (ID 120-04-S) to allow for the dried starch from the No.2 Starch Dryer to directly convey starch to Cornstarch Storage Bin No. 23 (ID 120-04-S), each with a maximum throughput of 75 ton/hr.** Cornstarch 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.

Section D.0

D.0.1 Consent Decree Limitations

Pursuant to the Consent Decree entered by the United States District Court for the District of Minnesota on March 3, 2006 in United States v. Cargill, Inc. No. 05-2037 (D.Minn.), the Permittee shall comply with the following emission limitations:

Emission Source Description	EU or Emission Point ID	VOC (lb/hr)	CO (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)
Corn Syrup Solid Manufacturing System #2	18-03-R	0.45	-	-	-
Batch Scale Hopper #1	34-01-S	0.07	-	-	-
Dextrin Starch Reactor #1	34-02-S	0.27	-	-	-
Dextrin Starch Cooler #1	34-03-S	0.06	-	-	-
Surge Hopper #1	34-05-S	0.17	-	-	-
Dextrin Feed Hopper #1 (System #1)	34-06-S	0.02	-	-	-
Dextrin Feed Hopper #2 (System #1)	34-07-S	0.02	-	-	-
Dextrin Starch Cooler #2	34B-01-S	0.06	-	-	-
Surge Hopper #2	34B-03-S	0.17	-	-	-
Dextrin Starch Reactor #2	34B-04-S	0.27	-	-	-
Dextrin Feed Hopper #3 (System #2)	34B-05-S	0.02	-	-	-
Dextrin Feed Hopper #4 (System #2)	34B-06-S	0.02	-	-	-
Batch Scale Hopper #2	34B-13-S	0.10	-	-	-
Dextrin Bulk loading Equipment	48-09-S	0.39	-	-	-
Starch Milling System #1	59-01-S	0.16	-	-	-
Starch Milling System #2	59-02-S	0.16	-	-	-
Starch Ring Dryer #2	59-03-S	1.19	19.00	-	-
Dried Corn Syrup Conveying System	93-04-W	0.03	-	-	-
Corn Syrup Solids Conveying System	93-05-W	0.03	-	-	-
Frodex Semi-Bulk Packing System	93-08-W	0.03	-	-	-
Cornstarch Bag Dumping Station #1	93-09-W	0.02	-	-	-
Cornstarch Bag Dumping Station #2	93-10-W	0.02	-	-	-
Starch Bulk Loading	93-14-W	0.09	-	-	-
Starch Bulk loading Vacuum System	93-15-W	0.01	-	-	-
Starch Mixing and Bagging System #1	93-16-W	0.05	-	-	-
Starch Mixing and Bagging System #2	93-17-W	0.10	-	-	-
P.G. Starch Receiver	93-18-W	0.13	-	-	-
Channel 2 Receiver	93-32-W	0.08	-	-	-
Channel 3 Receiver	93-33-W	0.08	-	-	-
Channel 4 Receiver	93-34-W	0.08	-	-	-
Channel 6 Receiver	93-35-W	0.06	-	-	-
Channel 2/3 Packing	93-36-W	0.39	-	-	-

Emission Source Description	EU or Emission Point ID	VOC (lb/hr)	CO (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)
Channel 4/6 Packing	93-37-W	0.39	-	-	-
Central Vacuum System	93-38-W	0.02	-	-	-
P.G. Starch Packing	93.39-W	0.05	-	-	-
Corn Syrup Spray Dryer/Cooler System #3	100-01-R	0.50	1.00	-	-
Corn Spray Dryer #4	100-03-R	0.86	1.00	-	-
Activated Carbon Regeneration Furnace #2	104-01-R	10 ppm or 95% destruction	100 ppm or 90% destruction	0.11	5.0
Cornstarch Storage Bin #20	120-01-S	0.05	-	-	-
Cornstarch Storage Bin #21	120-02-S	0.05	-	-	-
Cornstarch Storage Bin #22	120-03-S	0.05	-	-	-
Cornstarch Storage Bin #23	120-04-S	0.05	-	-	-
Cornstarch Storage Bin #24	120-05-S	0.05	-	-	-
Cornstarch Storage Bin #25	120-06-S	0.05	-	-	-
Cornstarch Storage Bin #26	120-07-S	0.05	-	-	-
Cornstarch Storage Bin #27	120-08-S	0.05	-	-	--
Cornstarch Storage Bin #28	120-09-S	0.05	-	-	-
Cornstarch Storage Bin #29	120-10-S	0.05	-	-	-
Cornstarch Storage Bin #30	120-11-S	0.05	-	-	-
Cornstarch Storage Bin #31	120-12-S	0.05	-	-	-
Cornstarch Storage Bin #32	120-13-S	0.05	-	-	-
Cornstarch Storage Bin #33	120-14-S	0.05	-	-	-
Cornstarch Storage Bin #34	120-15-S	0.05	-	-	-
Cornstarch Storage Bin #35	120-16-S	0.05	-	-	-
Cornstarch Storage Bin #36	120-17-S	0.05	-	-	-
Fiber Drying Equipment	89-01-G	10.57	-	3.95	-
Gluten Dryer System	121-01-G	3.72	2.95	0.68	-
Germ Dryer/Cooler	124A-01-G	3.97	0.46	0.77	-
Starch Ring Dryer #3	125-01-S	0.86	6.00	-	-
Waxy Cornstarch Bulk Storage Bins #95	126-01-S	0.18	-	-	-
Waxy Cornstarch Bulk Storage Bins #96	126-02-S	0.18	-	-	-
Waxy Cornstarch Bulk Storage Bins #97	126-03-S	0.18	-	-	-
Waxy Cornstarch Bulk Storage Bins #98	126-04-S	0.18	-	-	-
Sp. Starch Process with Starch Ring Dryer #4	128-01-S	0.90	6.00	-	-
Thermal Oxidizer	S128-14-S	1.33	8.61	-	-
Cornstarch Blending System #1	130-01-S	0.04	-	-	-
Cornstarch Blending System #2	130-02-S	0.04	-	-	-
Cornstarch Blending System #3	130-03-S	0.04	-	-	-
Cornstarch Blending System #4	130-04-S	0.04	-	-	-
Dextrin Blender	130-05-S	0.09	-	-	-
Germ Tank 1310	200-01-G	0.16	-	-	-
Gluten Tank 1410	200-02-G	0.16	-	-	-
Germ Tank 1110	200-03-G	0.16	-	-	-
Gluten Tank 1010	200-04-G	0.16	-	-	-
Bulk Loadout	200-05-G	3.89	-	-	-
Biogas Flare	800-05-E	0.78	1.71	-	-

Emission Source Description	EU or Emission Point ID	VOC (lb/hr)	CO (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)
HCL Tank - Refinery		0.08	-	-	-
Bldg 128 Tank Farm		0.08	-	-	-
3 Gluten Filters		0.42	-	-	-
3 Gluten Vacuum Pumps		0.77	-	-	-
Refinery Vacuum Pumps (1-3)		0.43	-	-	-
Refinery Vacuum Pumps (4-6)		0.64	-	-	-
Refinery Vacuum Pumps (7-8)		0.64	-	-	-
WWTP Centrifuges (2)		0.04	-	-	-

*Note - in order to avoid duplication of requirements the above units are also subject to the following compliance determination, compliance monitoring, recordkeeping and reporting conditions: D.1.5, D.1.6, D.1.7, D.1.8, D.3.16, D.3.17, D.3.19, D.3.20, D.5.12, D.5.13, D.5.15, D.5.16, D.6.6, D.6.12, D.6.13, and D.6.15.

Section D.6

D.6.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8-2]

Pursuant to 326 IAC 6.8-2 (Lake County: PM10 Emission Requirements) 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)
Batch Scale Hopper #1 (34-01-S)	0.01	0.04
Dextrin Starch Reactor #1 (34-02-S)	0.01	0.180
Dextrin Starch Cooler #1 (34-03-S)	0.01	0.042
Surge Hopper #1 (34-05-S)	0.01	0.11
Dextrin Feed Hoppers #1 and #2 (34-06-S & 34-07-S)	0.01 each	0.030 each
Batch Scale Hopper #2 (34B-13-S)	0.01	0.067
Dextrin Starch Reactor #2 (34B-04-S)	0.01	0.179
Dextrin Starch Cooler #2 (34B-01-S)	0.01	0.042
Surge Hopper #2 (34B-03-S)	0.01	0.114
Dextrin Feed Hoppers #3 and #4 (34B-05-S & 34B-06-S)	0.01 each	0.030 each
Dextrin Bulk Loading Equipment (48-09-S)	0.01	0.26
Starch Ring Dryer #2 (59-03-S)	0.006	3.50
Starch Milling Systems #1 and #2 (59-01-S and 59-02-S)	0.01 each	0.43 each
Starch Ring Dryer #3 (125-01-S)	0.006	3.50
Special Starch Process / Starch Ring Dryer #4 (128-01-S)	0.01	3.5
Cornstarch Storage Bins 20-36 (120-01-S to 120-17-S) only 5 may operate at one time	0.01 each	0.56 each
Waxy Cornstarch Storage Bins 95-98 (126-01-S to 126-04-S) only 1 may operate at a time	0.01 each	0.16 each
Cornstarch Blending Systems 1-4 (130-01-S to 130-04-S)	0.01	0.42
Dextrin Blender (130-05-S)	0.01	0.248

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

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

(a) Emissions of VOC from the following units shall not exceed the following limitations:

Unit Name	Unit ID	VOC Limit (lbs/hr)
Cornstarch Storage Bin 20	120-01-S	0.05
Cornstarch Storage Bin 21	120-02-S	0.05
Cornstarch Storage Bin 22	120-03-S	0.05
Cornstarch Storage Bin 23	120-04-S	0.05
Cornstarch Storage Bin 24	120-05-S	0.05
Cornstarch Storage Bin 25	120-06-S	0.05
Cornstarch Storage Bin 26	120-07-S	0.05
Cornstarch Storage Bin 27	120-08-S	0.05
Cornstarch Storage Bin 28	120-09-S	0.05
Cornstarch Storage Bin 29	120-10-S	0.05
Cornstarch Storage Bin 30	120-11-S	0.05
Cornstarch Storage Bin 31	120-12-S	0.05
Cornstarch Storage Bin 32	120-13-S	0.05
Cornstarch Storage Bin 33	120-14-S	0.05
Cornstarch Storage Bin 34	120-15-S	0.05
Cornstarch Storage Bin 35	120-16-S	0.05
Cornstarch Storage Bin 36	120-17-S	0.05
Starch Ring Dryer #3	125-01-S	0.86
Starch Ring Dryer #4	128-01-S	0.90
Starch Reactors (4)	128-02-S thru 128-04-S & 128-07-S	0.06
Cornstarch Blending System 1	130-01-S	0.04
Cornstarch Blending System 2	130-02-S	0.04
Cornstarch Blending System 3	130-03-S	0.04
Cornstarch Blending System 4	130-04-S	0.04
Dextrin Blender	130-05-S	0.09
Batch Scale Hopper #1	34-01-S	0.07
Dextrin Starch Reactor #1	34-02-S	0.27
Dextrin Starch Cooler #1	34-03-S	0.06
Surge Hopper #1	34-05-S	0.17
Dextrin Feed Hopper #1	34-06-S	0.02
Dextrin Feed Hopper #2	34-07-S	0.02
Dextrin Starch Cooler #2	34B-01-S	0.06
Surge Hopper #2	34B-03-S	0.17
Dextrin Starch Reactor #2	34B-04-S	0.27
Dextrin Feed Hopper #3	34B-05-S	0.02
Dextrin Feed Hopper #4	34B-06-S	0.02
Batch Scale Hopper #2	34B-13-S	0.10
Dextrin Bulk Loading	48-09-S	0.39
Starch Milling System #1	59-01-S	0.16
Starch Milling System #2	59-02-S	0.16
Starch Ring Dryer #2	59-03-S	1.19

D.6.9 Visible Emissions Notations [40 CFR 64]

(a) Visible emission notations of units' 48-09-S, 59-03-S, ~~59-01-S, 59-02-S~~, 125-01-S, 128-01-S, 120-01-S through 120-17-S, and 130-01-S through 130-05-S stack exhaust shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

D.6.11 Parametric Monitoring (Dust Collectors) [40 CFR 64]

The Permittee shall record the pressure drop across each control device used in the Starch Production Area at least once per day when the associated facility 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. Section C - Response to Excursions or Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition. A pressure reading that is outside the following ranges or a range established during the latest stack test is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit.

Unit ID	Control Equipment	Pressure Drop Range (inches of water)
Dextrin Bulk Loading Equipment (48-09-S)	Dust Collector	0.1 - 6
Starch Milling Systems #1 and #2 (59-01-S and 59-02-S)	Dust Collectors	0.1 - 6 each
Cornstarch Storage Bins 20-36 (120-01-S to 120-17-S)	Dust Collectors	0.1 - 6 each
Cornstarch Blending Systems 1-4 (130-01-S to 130-04-S)	Dust Collectors	0.1 - 6 each
Dextrin Blender (130-05-S)	Dust Collector	0.1 - 6

The instrument used for determining the pressure shall comply with Section C - Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ and shall be calibrated or replaced at least once every six (6) months.

Conclusion and Recommendation

The change shall be subject to the conditions of the attached Part 70 Administrative Amendment No. 089-31147-00000. The staff recommends to the Commissioner that this Part 70 Administrative Amendment Modification be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Aida DeGuzman at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) (233-4972) or toll free at 1-800-451-6027 extension (3-4972).
- (b) A copy of the findings is available on the Internet at: <http://www.in.gov/ai/appfiles/idem-caats/>
- (c) For additional information about air permits and how the public and interested parties can participate, refer to the IDEM's Guide for Citizen Participation and Permit Guide on the Internet at: www.idem.in.gov

Company Name: Cargill, Inc.
 Address, City IN Zip: 1100 Indianapolis Blvd., Hammond, IN 46320
 AA No.: 089-31149
 Plt ID: 089-00203
 Reviewer: Aida De Guzman

Date Application Received: 15-Nov-2011

PM/PM10/PM2.5 Potential to Emit (PTE)

Process/Facility	PTE Before Change			PTE After Change		
	Air Flow (dscfm)	SIP Limit Outlet Grain Loading (gr/dscf) and in (D.6.1)	PM/PM10/PM2.5 Potential to Emit (tons/year)	Air Flow (dscfm)	Outlet Grain Loading (gr/dscf)	PM/PM10/PM2.5 Potential to Emit (tons/year)
Starch Production Area (SECTION D.6)						
Cornstarch Storage Bin No. 23 (ID No. 120-04-S)	1,302	0.01	0.49	6,526	0.01	2.45
For 326 IAC 2-7-10.5 Applicability PTE change (PTE After Change-PTE Before Change)						1.96

The Cornstarch Storage Bin No. 23 (ID No. 120-040S) has a limit of 0.01 gr/dscf and 0.56 lb/hour both in SIP and Part 70 Operating Permit.

Company Name: Cargill, Inc.
 Address, City IN Zip: 1100 Indianapolis Blvd., Hammond, IN 46320
 AA No.: 089-31149
 Plt ID: 089-00203
 Reviewer: Aida De Guzman

Date Application Received: 15-Nov-2011

PM/PM10/PM2.5 Potential to Emit (PTE)

Process/Facility	Baseline Actual			Future Potential to Emit			SIP Limit (lb/hr)
	Hours of Operation (hours/yr)	Controlled Actual PM10 Emissions Rate	PM10 Potential to Emit (tons/year)	Hours of Operation (hours/yr)	Future Controlled PTE/Limit (lb/hr)	PM/PM10/PM2.5 Potential to Emit (tons/year)	
Starch Production Area (SECTION D.6)							
Cornstarch Storage Bin No. 23 (ID No. 120-04-S)	6,187	0.112	0.35	8,760	0.56	2.45	0.56
Actual to Future PTE/Allowable						2.11	

This modification is still meet the SIP limit of 0.56 lb/hr.

Cornstarch Storage Bin No. 23 (ID No. 120-04-S) did not go through netting in SSM 089-25241.

The Cornstarch Storage Bin No. 23 (ID No. 120-040S) has a limit of 0.01 gr/dscf and 0.56 lb/hour both in SIP and Part 70 Operating Permit.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
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SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Michael Golando
Cargill Inc.
1100 Indianapolis Blvd
Hammond, Indiana 46320

DATE: November 30, 2011

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

SUBJECT: Final Decision
Title V
089-31149-00203

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 11/30/2011 Cargill, Inc. 089-31149-00203 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handing Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		Michael Golando Cargill, Inc. 1100 Indianapolis Blvd Hammond IN 46320 (Source CAATS)									
2		James V Fritz Facility Mgr Cargill, Inc. 1100 Indianapolis Blvd Hammond IN 46320 (RO CAATS)									
3		East Chicago City Council 4525 Indianapolis Blvd East Chicago IN 46312 (Local Official)									
4		Gary - Hobart Water Corp 650 Madison St, P.O. Box M486 Gary IN 46401-0486 (Affected Party)									
5		Lake County Health Department-Gary 1145 W. 5th Ave Gary IN 46402-1795 (Health Department)									
6		WJOB / WZVN Radio 6405 Olcott Ave Hammond IN 46320 (Affected Party)									
7		Hammond City Council and Mayors Office 5925 Calumet Avenue Hammond IN 46320 (Local Official)									
8		Laurence A. McHugh Barnes & Thornburg 100 North Michigan South Bend IN 46601-1632 (Affected Party)									
9		Shawn Sobocinski 3229 E. Atlanta Court Portage IN 46368 (Affected Party)									
10		Ms. Carolyn Marsh Lake Michigan Calumet Advisory Council 1804 Oliver St Whiting IN 46394-1725 (Affected Party)									
11		Mark Coleman 9 Locust Place Ogden Dunes IN 46368 (Affected Party)									
12		Mr. Chris Hernandez Pipefitters Association, Local Union 597 8762 Louisiana St., Suite G Merrillville IN 46410 (Affected Party)									
13		Craig Hogarth 7901 West Morris Street Indianapolis IN 46231 (Affected Party)									
14		Lake County Commissioners 2293 N. Main St, Building A 3rd Floor Crown Point IN 46307 (Local Official)									
15		Anthony Copeland 2006 E. 140th Street East Chicago IN 46312 (Affected Party)									

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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1		Barbara G. 506 Lilac Street East Chicago IN 46312 (Affected Party)										
2		Mr. Robert Garcia 3733 Parrish Avenue East Chicago IN 46312 (Affected Party)										
3		Susan Grenzebach OCS Environmental 130 Lincoln St. Porter IN 46304 (Consultant)										
4		Ms. Karen Kroczek 8212 Madison Ave Munster IN 46321-1627 (Affected Party)										
5		Calumet Township Trustee 31 E 5th Avenue Gary IN 46402 (Affected Party)										
6		Joseph Hero 11723 S Oakridge Drive St. John IN 46373 (Affected Party)										
7		Gary City Council 401 Broadway # 209 Gary IN 46402 (Local Official)										
8		Ron Novak Hammond Dept. of Environmental Management 5925 Calumnet Ave. Hammond IN 46320 (Local Official)										
9		Mr. Larry Davis 268 South, 600 West Hebron IN 46341 (Affected Party)										
10		Gitte Laasby Post Tribune 1433 E. 83rd Ave Merrillville IN 46410 (Affected Party)										
11		Susan Severtson City of Gary Law Dept. 401 Broadway 4th Floor Gary IN 46402 (Local Official)										
12		Mark Zeltwanger 26545 CR 52 Nappanee IN 46550 (Affected Party)										
13												
14												
15												

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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