



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: March 14, 2012

RE: General Mills/043-31016-00050

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

Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

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

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

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

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

Enclosures
FNPER.dot12/03/07



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Minor Source Operating Permit OFFICE OF AIR QUALITY

**General Mills
707 Pillsbury Lane
New Albany, Indiana 47150**

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

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a MSOP under 326 IAC 2-6.1.

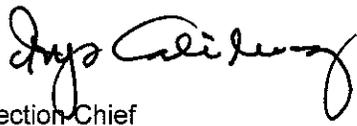
Operation Permit No.: M043-31016-00050	
Issued by:  Iryn Calilung, Section Chief Permits Branch Office of Air Quality	Issuance Date: March 14, 2012 Expiration Date: March 14, 2017

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 and A.2 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 2-5.1-3(c)][326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary refrigerated baked goods production facility.

Source Address:	707 Pillsbury Lane, New Albany, Indiana 47150
General Source Phone Number:	(812) 944-8411
SIC Code:	2045
County Location:	Floyd
Source Location Status:	Nonattainment for PM2.5 standard Attainment for all other criteria pollutants
Source Status:	Minor Source Operating Permit Program Minor Source, under PSD and Emission Offset Rules Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary

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

Boilers

- (1) Two (2) natural gas-fired boilers (BO1 and BO2), designated Nos. 1 and 2, respectively, both installed in 1959, each with maximum heat input rates of 10.1 MMBtu per hour, and exhausting through Stack Nos. 125 and 126, respectively;
- (2) One (1) natural gas-fired boiler (BO3), designated No. 3, installed in 1966, with a maximum heat input rate of 12.5 MMBtu per hour, and exhausting through Stack No. 127;

Externally Exhausting Dust Collectors

- (3) One (1) pneumatically conveyed flour reclaim collector, designated PCL, constructed in 1977, with an integral dust collector DC15, with a maximum handling capacity of 200 lbs/hr, and exhausting through Stack No. 68;
- (4) Two (2) pneumatically conveyed flour reclaim collectors, designated C1L and C2L, each constructed in 1977, with integral dust collectors DC17 and DC16, respectively, each with a maximum handling capacity of 1200 lbs/hr, and exhausting through Stack Nos. 66 and 67, respectively;
- (5) One (1) pneumatically conveyed flour reclaim collector, designated HJL, constructed in 1977, with an integral dust collector DC18, with a maximum handling capacity of 1200 lbs/hr, and exhausting through Stack No. 69;
- (6) One (1) pneumatically conveyed reclaim collector, identified as DC19, constructed in 1977, controlling Bin 43, constructed in 1977, with a maximum handling capacity of 1,000 lbs/hr, and exhausting through stack 56.

- (7) One (1) pneumatically conveyed flour reclaim collector, identified as DC20, constructed in 1977, controlling HJBP, constructed in 1977, with maximum handling capacity of 468 lbs/hr, and exhausting through stack 56.
- (8) One (1) pneumatically conveyed flour reclaim collector, designated BRL, constructed in 1977, with an integral dust collector DC24, with a maximum handling capacity of 1200 lbs/hr, and exhausting through Stack No. 71;
- (9) One (1) pneumatically conveyed horizontal bin with an integral dust collector DC30, constructed in 1981, with a maximum handling capacity of 60,000 lbs/hr, and exhausting through Stack No. 48;
- (10) One (1) pneumatically conveyed dusting flour reclaim bin with an integral dust collector DC37, with a maximum handling capacity of 55,000 lbs/hr, and exhausting through Stack No. 167;
- (11) One (1) pneumatically conveyed penthouse collector, designated PC, constructed in 1994, with an integral dust collector DC38, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 98a;
- (12) One (1) pneumatically conveyed surge bin, designated DC, constructed in 1992, with an integral dust collector DC48, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 98b;
- (13) One (1) pneumatically conveyed sugar grinding bin, with an integral dust collector DC50, with a maximum handling capacity of 180 lbs/hr, and exhausting through Stack No. 55;
- (14) Two (2) pneumatically conveyed unloader bins, designated Nos. 2 and 4, with integral dust collectors DC53 and DC60, respectively, with maximum handling capacities of 40,000 and 60,000 lbs/hr, respectively, and exhausting through Stack Nos. 139 and 137, respectively; and
- (15) One (1) pneumatically conveyed cookie blender with an integral dust collector DC58, with a maximum handling capacity of 4,000 lbs/hr, and exhausting through Stack No. 8;
- (16) One (1) pneumatically conveyed integral dust collector, identified as DC73, constructed in 1998, controlling the top of hungry jack ribbon blender 04, constructed in 1998, with a maximum handling capacity of 12,800 lbs/hr, and exhausting through Stack 61.
- (17) One (1) pneumatic flour conveyance and storage system with an integral dust collector DC74, constructed in 2010, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 150;
- (18) Two (2) pneumatically conveyed ribbon blenders with integral dust collectors DC77 and DC78, each constructed in 1998, each with a maximum handling capacity of 20,000 lbs/hr, and exhausting through Stack Nos. 153 and 154, respectively;
- (19) One (1) upstairs dry mix central vacuum system with an integral dust collector DC109, collecting fugitive raw materials at a maximum rate of 105 pounds per hour, and emissions exhausted through Stack 161.
- (20) One (1) central vacuum system with dust collector DC110, constructed in 1998, collecting fugitive raw materials at a maximum rate of 480 pounds per hour, and emissions exhausted through Stack 183.

- (21) One (1) bread flour cooling blender, identified as BR9, constructed in 1985, with an integral dust collector DC111, with a maximum handling capacity of 8,050 lbs/hr, and exhausting to stack No. 165.

Internally Exhausting Dust Collectors

- (22) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 1, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC01, and exhausting within the building;
- (23) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 2, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC02, and exhausting within the building;
- (24) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 3, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC03, and exhausting within the building;
- (25) One (1) pneumatically conveyed vertical tower bin, designated No. 4, with an integral dust collector DC04, exhausting within the building;
- (26) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 5, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC05, and exhausting within the building;
- (27) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 6, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC06, and exhausting within the building;
- (28) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 7, constructed in 1972, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC07, and exhausting within the building;
- (29) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 8, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC08, and exhausting within the building;
- (30) One (1) pneumatically conveyed vertical tower bin, designated No. 9, with an integral dust collector DC09, exhausting within the building;
- (31) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 10, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC10, and exhausting within the building;
- (32) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 11, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC11, and exhausting within the building;
- (33) Two (2) pneumatically conveyed starch bins, designated Nos. 12 and 13, with integral dust collectors DC12 and DC13, respectively, exhausting within the building;
- (34) One (1) pneumatically conveyed dusting flour collector, identified as DC14, controlling C2L/C1L, constructed in 1986, with a maximum handling capacity of 1,500lbs/hr, and exhausting within the building.
- (35) One (1) pneumatically conveyed reclaim collector, identified as DC21, controlling Bin 42,

- constructed in 1987, with a maximum handling capacity of 500 lbs/hr, and exhausting within the building.
- (36) One (1) pneumatically conveyed dusting flour collector, identified as DC22, controlling BIL & BRL, constructed in 1987, with a maximum handling capacity of 500 lbs/hr, and exhausting within the building.
 - (37) One (1) pneumatically conveyed integral dust collector, identified as DC25, controlling the No. 1 Entoleter, constructed in 1967, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
 - (38) One (1) pneumatically conveyed integral dust collector, identified as DC26, controlling the No. 2 Entoleter, constructed in 1967, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
 - (39) Two (2) pneumatically conveyed sugar grinding bins, identified as Bin 28 and Bin 29, constructed in 1967, with a combined maximum handling capacity of 2,000 lbs/hr, utilizing integral dust collector DC27, and exhausting within the building.
 - (40) One (1) pneumatically conveyed integral dust collector, identified as DC29, constructed in 1982, with a maximum handling capacity of 400 lbs/hr, and exhausting within the building.
 - (41) One (1) pneumatically conveyed corn sugar collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC34, and exhausting within the building.
 - (42) One (1) pneumatically conveyed salt bin, identified as DC1 Salt 1, constructed in 1982, with a maximum handling capacity of 7500 lbs/hr, utilizing integral dust collector DC35, and exhausting within the building.
 - (43) One (1) pneumatically conveyed flour bin, designated Western, with an integral dust collector DC36, exhausting within the building;
 - (44) One (1) pneumatically conveyed interim sugar collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC39, and exhausting within the building.
 - (45) One (1) pneumatically conveyed interim salt collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC40, and exhausting within the building.
 - (46) One (1) pneumatically conveyed interim soda collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC41, and exhausting within the building.
 - (47) One (1) pneumatically conveyed interim SALP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC42, and exhausting within the building.
 - (48) One (1) pneumatically conveyed interim S-SAPP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC43, and exhausting within the building.
 - (49) One (1) pneumatically conveyed interim SAPP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC44, and exhausting within the building.
 - (50) One (1) pneumatically conveyed integral dust collector, identified as DC45, controlling the Cookie Minors, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within

the building.

- (51) One (1) pneumatically conveyed integral dust collector, identified as DC46, controlling the Cookie/Combo Line 3 sugar, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (52) One (1) pneumatically conveyed integral dust collector, identified as DC51, controlling the sugar grinding starch, constructed in 1981, with a maximum handling capacity of 750 lbs/hr, and exhausting within the building.
- (53) One (1) pneumatically conveyed integral dust collector, identified as DC55, controlling the interim bag dump, constructed in 1977, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (54) One (1) pneumatically conveyed integral dust collector, identified as DC56, controlling PHL Gluten, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (55) One (1) pneumatically conveyed integral dust collector, identified as DC59, controlling the Can Prep, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (56) One (1) pneumatically conveyed integral dust collector, identified as DC62, controlling the Cookie Preblend, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (57) One (1) pneumatically conveyed integral dust collector, identified as DC63, controlling the CFL Soda, constructed in 1985, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (58) One (1) wet scrubber, identified as DC64, controlling a series of icing blenders, with a maximum handling capacity of 8,800 lbs/hr, and exhausting within the building.
- (59) One (1) pneumatically conveyed integral dust collector, identified as DC69, controlling corn meal particulate, constructed in 1989, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (60) One (1) pneumatically conveyed integral dust collector, identified as DC70, controlling the DSDM Gluten Supersack, with a maximum capacity of 3,000 lbs/hr, and exhausting within the building.
- (61) One (1) pneumatically conveyed integral dust collector/bin filter, identified as DC72, controlling the downstairs dry mix area, with maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (62) One (1) pneumatically conveyed integral dust collector, identified as DC76, controlling the gluten preblend bag dump, constructed in 1998, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (63) One (1) pneumatic dusting flour conveyance and storage system (BL79), with an integral dust collector DC79, exhausting inside the building;
- (64) One (1) pneumatically conveyed integral dust collector, identified as DC80, controlling the Combo Line 3 Xanthan Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.

- (65) One (1) pneumatically conveyed integral dust collector, identified as DC81, controlling the Combo Line 3 Panadam Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (66) One (1) pneumatically conveyed integral dust collector, identified as DC82, controlling the Combo Line 3 Diamodam Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (67) First Stage Minors Bin Nos. 1, 2 and 3 with three (3) integral dust collectors designated DC83, DC84 and DC85 exhausting within the building;
- (68) One (1) pneumatically conveyed integral dust collector, identified as DC86, controlling the Combo Line 3 GDL Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (69) One (1) pneumatically conveyed integral dust collector, identified as DC87, controlling the Combo Line 3 KCL Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (70) One (1) pneumatically conveyed integral dust collector, identified as DC88, controlling the Combo Line 3 SALP Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (71) One (1) pneumatically conveyed integral dust collector, identified as DC89, controlling the Combo Line 3 SAPP Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (72) One (1) pneumatically conveyed integral dust collector, identified as DC90, controlling the Combo Line 3 Soda Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (73) One (1) pneumatically conveyed integral dust collector, identified as DC91, controlling the Combo Line 3 Salt Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (74) One (1) pneumatically conveyed integral dust collector, identified as DC92, controlling the Combo Line 3 202 Sugar Bin, constructed in 1998, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (75) One (1) pneumatically conveyed integral dust collector, identified as DC93, controlling the Combo Line 3 Corn Sugar Bin, constructed in 1998, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (76) One (1) pneumatically conveyed integral dust collector, identified as DC94, controlling the Combo Line 3 Second Stage Minors Bin #1, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (77) One (1) pneumatically conveyed integral dust collector, identified as DC95, controlling the Combo Line 3 Second Stage Minors Bin #3, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (78) One (1) pneumatically conveyed integral dust collector, identified as DC96, controlling the Combo Line 3 Second Stage Minors Bin #2, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (79) One (1) pneumatically conveyed integral dust collector, identified as DC97, controlling the

- Combo Line 3 E. Soda Hopper, constructed in 1998, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (80) One (1) pneumatically conveyed integral dust collector, identified as DC98, controlling the Combo Line 3 Gluten Preblend Ribbon Blender, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (81) One (1) pneumatically conveyed integral dust collector, identified as DC101, controlling the Supersack Bag Dump, constructed in 1998, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (82) One (1) pneumatically conveyed integral final dust collector and slidegate, identified as DC102, constructed in 1998, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (83) One (1) pneumatic sugar conveyance with an air / material separator with an integral dust collector DC103, which exhausts inside the building, and a storage system with a sock vent which exhausts inside the building.
- (84) One (1) pneumatically conveyed dust collector, identified as DC107, controlling the corn sugar form the Puck Line sugar grinding area, constructed in 2000, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (85) One (1) pneumatically conveyed integral dust collector, identified as DC108, controlling the Combo Line 3 De-dusting system, with a maximum handling capacity of 6,000 lbs/hr, and exhausting within the building.
- (86) One (1) pneumatically conveyed integral dust collector, controlling the cookie sugar grinding bin, identified as DC112, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (87) One (1) pneumatically conveyed integral dusting flour reclaim collector, controlling the pie crust rice dusting, identified as DC 113, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (88) One (1) pneumatically conveyed integral dust collector, controlling the pie crust rice flour, identified as DC114, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (89) One (1) pneumatically conveyed integral HJ NFDM System dust collector, identified as DC115, constructed in 2003, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (90) One (1) pneumatically conveyed integral dust collector, controlling the pie crust sifter, identified as DC 116, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (91) One (1) pneumatically conveyed integral dust collector, controlling the gluten preblend, identified as DC117, constructed in 2010, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.

Miscellaneous Operations

- (92) One (1) Safety Kleen cold cleaner degreaser, designated No. 87, constructed in 1988, using a maximum of 0.056 gallons of solvent per day. and exhausting within the building;

- (93) Seventeen (17) Videojet coding units, utilizing no control devices, and exhausting within the building;
- (94) One (1) stick welding operation;
- (95) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million BTU per hour:
 - (a) Three (3) natural gas-fired HVAC / pest control heaters (AH30, AH31 and AH32), designated Nos. 1, 2, and 3, respectively, with maximum heat input rates of 4.5, 2.725, and 2.725 million (MM) British thermal units (Btu) per hour, respectively, exhausting through Stack Nos. 179, 184, and 166, respectively;
 - (b) Three (3) natural gas-fired pest control heaters (AH27, AH28 and AH29), designated Nos. 4, 5, and 6, respectively, with maximum heat input rates of 2.0, 2.5 and 2.0 MMBtu per hour, respectively, exhausting through Stack Nos. 85, 140, and 135, respectively;
 - (c) One (1) natural gas-fired pest control heater (AH26), designated No. 7, with a maximum heat input rate of 0.75 MMBtu per hour, exhausting through Stack No. 142;
 - (d) One (1) natural gas-fired HVAC / pest control heater (AH39), designated No. 8, with a maximum heat input rate of 0.40 MMBtu per hour, exhausting through Stack No. 185; and
 - (e) One (1) propane fired WWTP flare, with a maximum heat input capacity of 0.036 MMBtu per hour.
- (96) Four (4) general ventilation unit scrubbers (SB2, SB3, SB4 and SB5), located in PKL Rotoclone, BRL, C1L, and C2L, respectively, for removal of carbon dioxide refrigerant from the employee occupied area, exhausting through Stack Nos. 52, 60, 70, and 65, respectively;
- (97) Two (2) 14,000 gallon alcohol storage tanks, with four (4) compartments TA64, TA65, TA66 and TA67, exhausting through Stack Nos. 13 and 14, respectively, constructed in 1982 and 1985, respectively;
- (98) Sixteen (16) ammonia condensers;
- (99) Two (2) cooling towers, identified as CT8 and CT9, each with a 250 gal/hr circulation rate; and
- (100) Paved roads and parking lots with public access.

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-1.1-1]

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 2-1.1-1) shall prevail.

B.2 Permit Term [326 IAC 2-6.1-7(a)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

-
- (a) This permit, M043-31016-00050, is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date of this permit.
- (b) If IDEM, OAQ, upon receiving a timely and complete renewal permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, until the renewal permit has been issued or denied.

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

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

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

B.4 Enforceability

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

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

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

B.7 Duty to Provide Information

-
- (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 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) An annual notification shall be submitted by an authorized individual to the Office of Air Quality stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) The annual notice shall be submitted in the format attached no later than March 1 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
- (c) The notification 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.

B.9 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) 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 Permittee shall implement the PMPs.

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions.
- (c) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

B.10 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to M043-31016-00050 and issued pursuant to permitting programs approved into the state implementation plan have been either:
- (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted.
- (b) All previous registrations and permits are superseded by this permit.

B.11 Termination of Right to Operate [326 IAC 2-6.1-7(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 one hundred twenty (120) days prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-6.1-7.

B.12 Permit Renewal [326 IAC 2-6.1-7]

- (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 2-6.1-7. Such information shall be included in the application for each emission unit at this source. The renewal application does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

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

- (b) A timely renewal application is one that is:
- (1) Submitted at least one hundred twenty (120) days 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 2-6.1 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 2-6.1-4(b), in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.13 Permit Amendment or Revision [326 IAC 2-5.1-3(e)(3)][326 IAC 2-6.1-6]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-6.1-6 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

- (c) The Permittee shall notify the OAQ no later than thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

B.14 Source Modification Requirement

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

B.15 Inspection and Entry

[326 IAC 2-5.1-3(e)(4)(B)][326 IAC 2-6.1-5(a)(4)][IC 13-14-2-2][IC 13-17-3-2][IC 13-30-3-1]

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

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

B.16 Transfer of Ownership or Operational Control [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

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

The application which shall be submitted by the Permittee does require an affirmation that the statements in the application are true and complete by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement notice-only changes addressed in the request for a notice-only change immediately upon submittal of the request. [326 IAC 2-6.1-6(d)(3)]

B.17 Annual Fee Payment [326 IAC 2-1.1-7]

- (a) The Permittee shall pay annual fees due no later than thirty (30) calendar days of receipt of a bill from IDEM, OAQ,.
- (b) 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.18 Credible Evidence [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 2-6.1-5(a)(1)]

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

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

C.2 Permit Revocation [326 IAC 2-1.1-9]

Pursuant to 326 IAC 2-1.1-9 (Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

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

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

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

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

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

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

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

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

All required notifications shall be submitted to:

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

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project.

- (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 2-6.1-5(a)(2)]

C.8 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.
- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date.
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ if the Permittee submits to IDEM, OAQ a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

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

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

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

C.10 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. All monitoring and record keeping requirements not already legally required shall be implemented when operation begins.

C.11 Instrument Specifications [326 IAC 2-1.1-11]

- (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

C.12 Response to Excursions or Exceedances

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.13 Actions Related to Noncompliance Demonstrated by a Stack Test

- (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.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

C.14 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAQ, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.15 General Record Keeping Requirements [326 IAC 2-6.1-5]

- (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.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) Reports required by conditions in Section D of this permit shall be submitted to:

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

- (b) 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.

- (c) The first report shall cover the period commencing on the date of issuance of this permit or the date of initial start-up, whichever is later, and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit, "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Boilers

- (1) Two (2) natural gas-fired boilers (BO1 and BO2), designated Nos. 1 and 2, respectively, both installed in 1959, each with maximum heat input rates of 10.1 MMBtu per hour, and exhausting through Stack Nos. 125 and 126, respectively;
- (2) One (1) natural gas-fired boiler (BO3), designated No. 3, installed in 1966, with a maximum heat input rate of 12.5 MMBtu per hour, and exhausting through Stack No. 127;

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.1.1 Particulate Emission Limitation [326 IAC 6-2-3]

Pursuant to 326 IAC 6-2-3(d), the particulate emissions from each of the three (3) boilers (Boilers Nos. 1 through 3) shall in no case exceed 0.80 pounds per MMBtu heat input.

D.1.2 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and any associated control devices. Section B - Preventive Maintenance Plan contains the Permittee's obligation with regard to the preventive maintenance plan required by this condition.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Externally Exhausting Dust Collectors

- (3) One (1) pneumatically conveyed flour reclaim collector, designated PCL, constructed in 1977, with an integral dust collector DC15, with a maximum handling capacity of 200 lbs/hr, and exhausting through Stack No. 68;
- (4) Two (2) pneumatically conveyed flour reclaim collectors, designated C1L and C2L, each constructed in 1977, with integral dust collectors DC17 and DC16, respectively, each with a maximum handling capacity of 1200 lbs/hr, and exhausting through Stack Nos. 66 and 67, respectively;
- (5) One (1) pneumatically conveyed flour reclaim collector, designated HJL, constructed in 1977, with an integral dust collector DC18, with a maximum handling capacity of 1200 lbs/hr, and exhausting through Stack No. 69;
- (6) One (1) pneumatically conveyed reclaim collector, identified as DC19, constructed in 1977, controlling Bin 43, constructed in 1977, with a maximum handling capacity of 1,000 lbs/hr, and exhausting through stack 56.
- (7) One (1) pneumatically conveyed flour reclaim collector, identified as DC20, constructed in 1977, controlling HJBP, constructed in 1977, with maximum handling capacity of 468 lbs/hr, and exhausting through stack 56.
- (8) One (1) pneumatically conveyed flour reclaim collector, designated BRL, constructed in 1977, with an integral dust collector DC24, with a maximum handling capacity of 1200 lbs/hr, and exhausting through Stack No. 71;
- (9) One (1) pneumatically conveyed horizontal bin with an integral dust collector DC30, constructed in 1981, with a maximum handling capacity of 60,000 lbs/hr, and exhausting through Stack No. 48;
- (10) One (1) pneumatically conveyed dusting flour reclaim bin with an integral dust collector DC37, with a maximum handling capacity of 55,000 lbs/hr, and exhausting through Stack No. 167;
- (11) One (1) pneumatically conveyed penthouse collector, designated PC, constructed in 1994, with an integral dust collector DC38, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 98a;
- (12) One (1) pneumatically conveyed surge bin, designated DC, constructed in 1992, with an integral dust collector DC48, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 98b;
- (13) One (1) pneumatically conveyed sugar grinding bin, with an integral dust collector DC50, with a maximum handling capacity of 180 lbs/hr, and exhausting through Stack No. 55;
- (14) Two (2) pneumatically conveyed unloader bins, designated Nos. 2 and 4, with integral dust collectors DC53 and DC60, respectively, with maximum handling capacities of 40,000 and 60,000 lbs/hr, respectively, and exhausting through Stack Nos. 139 and 137, respectively; and
- (15) One (1) pneumatically conveyed cookie blender with an integral dust collector DC58, with a maximum handling capacity of 4,000 lbs/hr, and exhausting through Stack No. 8;

- (16) One (1) pneumatically conveyed integral dust collector, identified as DC73, constructed in 1998, controlling the top of hungry jack ribbon blender 04, constructed in 1998, with a maximum handling capacity of 12,800 lbs/hr, and exhausting through Stack 61.
 - (17) One (1) pneumatic flour conveyance and storage system with an integral dust collector DC74, constructed in 2010, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 150;
 - (18) Two (2) pneumatically conveyed ribbon blenders with integral dust collectors DC77 and DC78, each constructed in 1998, each with a maximum handling capacity of 20,000 lbs/hr, and exhausting through Stack Nos. 153 and 154, respectively;
 - (19) One (1) upstairs dry mix central vacuum system with an integral dust collector DC109, collecting fugitive raw materials at a maximum rate of 105 pounds per hour, and emissions exhausted through Stack 161.
 - (20) One (1) central vacuum system with dust collector DC110, constructed in 1998, collecting fugitive raw materials at a maximum rate of 480 pounds per hour, and emissions exhausted through Stack 183.
 - (21) One (1) bread flour cooling blender, identified as BR9, constructed in 1985, with an integral dust collector DC111, with a maximum handling capacity of 8,050 lbs/hr, and exhausting to stack No. 165.
- (The information describing the process contained in this emissions unit description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

In order to render 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment New Source Review) not applicable, the source shall comply with the following:

Dust Collector	Stack ID	PM Limit (lbs/hr)	PM10/PM2.5 Limit (lbs/hr)
DC15	68	0.19	0.19
DC16	67	0.51	0.51
DC17	66	0.43	0.43
DC18	69	0.48	0.48
DC19 and DC20	56	0.48 (combined)	0.48 (combined)
DC24	71	0.36	0.36
DC30	48	0.89	0.89
DC37	167	0.14	0.14
DC38	98a	0.48	0.48
DC48	98b	0.21	0.21
DC50	55	0.20	0.20
DC53	139	0.31	0.31
DC58	8	0.14	0.14
DC60	137	0.31	0.31
DC73	61	0.51	0.51
DC74	150	0.27	0.27
DC77	153	0.34	0.34
DC78	154	0.34	0.34
DC109	161	0.08	0.08
DC110	183	0.48	0.48
DC111	165	0.17	0.17

Compliance with these limits, combined with the PM and PM10 potential to emit from all other emission units at this source, shall limit the source-wide total emissions to less than 250 tons per year and shall render 326 IAC 2-2 (PSD) not applicable.

Compliance with these limits, combined with the PM2.5 potential to emit from all other emission units at this source, shall limit the source-wide total emissions to less than 100 tons per year and shall render 326 IAC 2-1.1-5 (Nonattainment New Source Review) not applicable.

D.2.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, particulate emissions from each of following emission units shall not exceed the pound per hour limit listed in the table below:

Dust Collector	Process Weight Rate (tons/hr)	Particulate Emissions (lbs/hr)
DC15	0.10	0.88
DC16 through DC18	0.60 (each)	2.91 (each)
DC19	0.50	2.58
DC20	0.234	1.55
DC24	0.60	2.91
DC30	30.00	40.04
DC37	27.50	37.77
DC38	17.50	27.90
DC48	17.50	27.90
DC50	0.09	0.82
DC53	20.00	30.51
DC58	2.00	6.52
DC60	30.00	40.04
DC73	6.40	14.22
DC74	17.50	27.90
DC77 and DC78	10.00 (each)	19.18 (each)
DC109	0.0525	0.57
DC110	0.24	1.58
DC111	4.025	10.42

The pounds per hour limitations were calculated with the following equations:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

D.2.3 Preventive Manitenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and their control devices. 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.2.4 Particulate Matter (PM)

In order to comply with Conditions D.2.1, and D.2.2, the dust collectors for PM, PM₁₀, and PM_{2.5} control shall be in operation at all times when the processes they control are in operation

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

D.2.5 Visible Emissions Notations

- (a) Visible emission notations of the following stack exhausts shall be performed once per day during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.

Stack ID
68
67
66
69
56
71
48
167
98a
98b
55
139
8
137
61
150
153
154
161
183
165

- (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.2.6 Baghouse Inspections

An inspection shall be performed each calendar quarter of all bags in each of the following dust collectors. All defective bags shall be replaced.

Control ID
DC15 through DC20
DC24
DC30
DC37
DC38
DC48
DC50
DC53
DC58
DC60
DC73 and DC74
DC77 and DC78
DC109 through DC111

D.2.7 Broken or Failed Bag Detection

- (a) For a single compartment baghouses 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 C - Response to Excursions or Exceedances).
- (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 line. 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 C - Response to Excursions or Exceedances).

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, dust traces or triboflows.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.2.8 Record Keeping Requirements

- (a) To document the compliance status with Condition D.2.5, the Permittee shall maintain a daily record of visible emission notations of each dust collector stack exhaust. 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, (i.e. the process did not operate that day).
- (b) To document the compliance status with Condition D.2.6, the Permittee shall maintain records of the results of the inspections required under Condition D.2.6.
- (c) Section C - General Record Keeping Requirements, contains the Permittee's obligations with regard to the records required by this condition.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Internally Exhausting Dust Collectors

- (22) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 1, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC01, and exhausting within the building;
- (23) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 2, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC02, and exhausting within the building;
- (24) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 3, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC03, and exhausting within the building;
- (25) One (1) pneumatically conveyed vertical tower bin, designated No. 4, with an integral dust collector DC04, exhausting within the building;
- (26) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 5, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC05, and exhausting within the building;
- (27) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 6, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC06, and exhausting within the building;
- (28) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 7, constructed in 1972, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC07, and exhausting within the building;
- (29) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 8, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC08, and exhausting within the building;
- (30) One (1) pneumatically conveyed vertical tower bin, designated No. 9, with an integral dust collector DC09, exhausting within the building;
- (31) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 10, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC10, and exhausting within the building;
- (32) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 11, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC11, and exhausting within the building;
- (33) Two (2) pneumatically conveyed starch bins, designated Nos. 12 and 13, with integral dust collectors DC12 and DC13, respectively, exhausting within the building;
- (34) One (1) pneumatically conveyed dusting flour collector, identified as DC14, controlling C2L/C1L, constructed in 1986, with a maximum handling capacity of 1,500lbs/hr, and exhausting within the building.

- (35) One (1) pneumatically conveyed reclaim collector, identified as DC21, controlling Bin 42, constructed in 1987, with a maximum handling capacity of 500 lbs/hr, and exhausting within the building.
- (36) One (1) pneumatically conveyed dusting flour collector, identified as DC22, controlling BIL & BRL, constructed in 1987, with a maximum handling capacity of 500 lbs/hr, and exhausting within the building.
- (37) One (1) pneumatically conveyed integral dust collector, identified as DC25, controlling the No. 1 Entoleter, constructed in 1967, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (38) One (1) pneumatically conveyed integral dust collector, identified as DC26, controlling the No. 2 Entoleter, constructed in 1967, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (39) Two (2) pneumatically conveyed sugar grinding bins, identified as Bin 28 and Bin 29, constructed in 1967, with a combined maximum handling capacity of 2,000 lbs/hr, utilizing integral dust collector DC27, and exhausting within the building.
- (40) One (1) pneumatically conveyed integral dust collector, identified as DC29, constructed in 1982, with a maximum handling capacity of 400 lbs/hr, and exhausting within the building.
- (41) One (1) pneumatically conveyed corn sugar collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC34, and exhausting within the building.
- (42) One (1) pneumatically conveyed salt bin, identified as DC1 Salt 1, constructed in 1982, with a maximum handling capacity of 7500 lbs/hr, utilizing integral dust collector DC35, and exhausting within the building.
- (43) One (1) pneumatically conveyed flour bin, designated Western, with an integral dust collector DC36, exhausting within the building;
- (44) One (1) pneumatically conveyed interim sugar collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC39, and exhausting within the building.
- (45) One (1) pneumatically conveyed interim salt collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC40, and exhausting within the building.
- (46) One (1) pneumatically conveyed interim soda collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC41, and exhausting within the building.
- (47) One (1) pneumatically conveyed interim SALP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC42, and exhausting within the building.
- (48) One (1) pneumatically conveyed interim S-SAPP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC43, and exhausting within the building.
- (49) One (1) pneumatically conveyed interim SAPP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC44, and exhausting within the building.
- (50) One (1) pneumatically conveyed integral dust collector, identified as DC45, controlling the Cookie Minors, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.

- (51) One (1) pneumatically conveyed integral dust collector, identified as DC46, controlling the Cookie/Combo Line 3 sugar, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (52) One (1) pneumatically conveyed integral dust collector, identified as DC51, controlling the sugar grinding starch, constructed in 1981, with a maximum handling capacity of 750 lbs/hr, and exhausting within the building.
- (53) One (1) pneumatically conveyed integral dust collector, identified as DC55, controlling the interim bag dump, constructed in 1977, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (54) One (1) pneumatically conveyed integral dust collector, identified as DC56, controlling PHL Gluten, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (55) One (1) pneumatically conveyed integral dust collector, identified as DC59, controlling the Can Prep, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (56) One (1) pneumatically conveyed integral dust collector, identified as DC62, controlling the Cookie Preblend, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (57) One (1) pneumatically conveyed integral dust collector, identified as DC63, controlling the CFL Soda, constructed in 1985, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (58) One (1) wet scrubber, identified as DC64, controlling a series of icing blenders, with a maximum handling capacity of 8,800 lbs/hr, and exhausting within the building.
- (59) One (1) pneumatically conveyed integral dust collector, identified as DC69, controlling corn meal particulate, constructed in 1989, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (60) One (1) pneumatically conveyed integral dust collector, identified as DC70, controlling the DSDM Gluten Supersack, with a maximum capacity of 3,000 lbs/hr, and exhausting within the building.
- (61) One (1) pneumatically conveyed integral dust collector/bin filter, identified as DC72, controlling the downstairs dry mix area, with maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (62) One (1) pneumatically conveyed integral dust collector, identified as DC76, controlling the gluten preblend bag dump, constructed in 1998, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (63) One (1) pneumatic dusting flour conveyance and storage system (BL79), with an integral dust collector DC79, exhausting inside the building;
- (64) One (1) pneumatically conveyed integral dust collector, identified as DC80, controlling the Combo Line 3 Xanthan Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (65) One (1) pneumatically conveyed integral dust collector, identified as DC81, controlling the Combo Line 3 Panadam Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.

- (66) One (1) pneumatically conveyed integral dust collector, identified as DC82, controlling the Combo Line 3 Diamodam Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (67) First Stage Minors Bin Nos. 1, 2 and 3 with three (3) integral dust collectors designated DC83, DC84 and DC85 exhausting within the building;
- (68) One (1) pneumatically conveyed integral dust collector, identified as DC86, controlling the Combo Line 3 GDL Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (69) One (1) pneumatically conveyed integral dust collector, identified as DC87, controlling the Combo Line 3 KCL Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (70) One (1) pneumatically conveyed integral dust collector, identified as DC88, controlling the Combo Line 3 SALP Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (71) One (1) pneumatically conveyed integral dust collector, identified as DC89, controlling the Combo Line 3 SAPP Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (72) One (1) pneumatically conveyed integral dust collector, identified as DC90, controlling the Combo Line 3 Soda Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (73) One (1) pneumatically conveyed integral dust collector, identified as DC91, controlling the Combo Line 3 Salt Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (74) One (1) pneumatically conveyed integral dust collector, identified as DC92, controlling the Combo Line 3 202 Sugar Bin, constructed in 1998, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (75) One (1) pneumatically conveyed integral dust collector, identified as DC93, controlling the Combo Line 3 Corn Sugar Bin, constructed in 1998, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (76) One (1) pneumatically conveyed integral dust collector, identified as DC94, controlling the Combo Line 3 Second Stage Minors Bin #1, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (77) One (1) pneumatically conveyed integral dust collector, identified as DC95, controlling the Combo Line 3 Second Stage Minors Bin #3, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (78) One (1) pneumatically conveyed integral dust collector, identified as DC96, controlling the Combo Line 3 Second Stage Minors Bin #2, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (79) One (1) pneumatically conveyed integral dust collector, identified as DC97, controlling the Combo Line 3 E. Soda Hopper, constructed in 1998, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.

- (80) One (1) pneumatically conveyed integral dust collector, identified as DC98, controlling the Combo Line 3 Gluten Preblend Ribbon Blender, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (81) One (1) pneumatically conveyed integral dust collector, identified as DC101, controlling the Supersack Bag Dump, constructed in 1998, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (82) One (1) pneumatically conveyed integral final dust collector and slidegate, identified as DC102, constructed in 1998, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (83) One (1) pneumatic sugar conveyance with an air / material separator with an integral dust collector DC103, which exhausts inside the building, and a storage system with a sock vent which exhausts inside the building.
- (84) One (1) pneumatically conveyed dust collector, identified as DC107, controlling the corn sugar form the Puck Line sugar grinding area, constructed in 2000, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (85) One (1) pneumatically conveyed integral dust collector, identified as DC108, controlling the Combo Line 3 De-dusting system, with a maximum handling capacity of 6,000 lbs/hr, and exhausting within the building.
- (86) One (1) pneumatically conveyed integral dust collector, controlling the cookie sugar grinding bin, identified as DC112, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (87) One (1) pneumatically conveyed integral dusting flour reclaim collector, controlling the pie crust rice dusting, identified as DC 113, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (88) One (1) pneumatically conveyed integral dust collector, controlling the pie crust rice flour, identified as DC114, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (89) One (1) pneumatically conveyed integral HJ NFDM System dust collector, identified as DC115, constructed in 2003, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (90) One (1) pneumatically conveyed integral dust collector, controlling the pie crust sifter, identified as DC 116, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (91) One (1) pneumatically conveyed integral dust collector, controlling the gluten preblend, identified as DC117, constructed in 2010, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.3.1 PSD and Nonattainment Minor Limit [326 IAC 2-2][326 IAC 2-1.1-5]

In order to render 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment New Source Review) not applicable, the Permittee shall comply with the following:

Dust Collector(s)	PM Limit (lbs/hr)	PM10/PM2.5 Limit (lbs/hr)
DC1 through DC13	0.393 (each)	0.138 (each)
DC14	0.024	0.008
DC21 and DC22	0.008 (each)	0.003 (each)
DC25 and DC26	0.16	0.006
DC27	0.031	0.011
DC29	0.006	0.002
DC34	0.024	0.008
DC35	0.118	0.041
DC36	0.942	0.330
DC39 through DC46	0.024 (each)	0.008 (each)
DC51	0.012	0.004
DC55 and DC56	0.024 (each)	0.008 (each)
DC59	0.031	0.011
DC62	0.016	0.006
DC63	0.024	0.008
DC64*	6.86	6.86
DC69	0.031	0.011

Dust Collector(s)	PM Limit (lbs/hr)	PM10/PM2.5 Limit (lbs/hr)
DC70 and DC72	0.047 (each)	0.017 (each)
DC76	0.039	0.014
DC79 through DC91	0.047 (each)	0.017 (each)
DC92 and DC93	0.079 (each)	0.028 (each)
DC94 through DC96	0.047 (each)	0.017 (each)
DC97	0.024	0.008
DC98	0.047	0.017
DC101	0.024	0.008
DC102	0.031	0.011
DC103	0.071	0.025
DC107	0.079	0.028
DC108	0.094	0.033
DC112	0.047	0.017
DC113 and DC114	0.039 (each)	0.014 (each)
DC115	0.031	0.011
DC116	0.016	0.006
DC117	0.047	0.017

*Note: DC64 is a wet scrubber.

Compliance with these limits, combined with the PM and PM10 potential to emit from all other emission units at this source, shall limit the source-wide total emissions to less than 250 tons per year and shall render 326 IAC 2-2 (PSD) not applicable.

Compliance with these limits, combined with the PM2.5 potential to emit from all other emission units at this source, shall limit the source-wide total emissions to less than 100 tons per year and shall render 326 IAC 2-1.1-5 (Nonattainment New Source Review) not applicable.

D.3.2 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2, particulate emissions from each of following emission units shall not exceed the pound per hour limit listed in the table below:

Dust Collector	Process Weight Rate (tons/hr)	Particulate Emissions (lbs/hr)
DC1 through DC13	12.50 (each)	22.27 (each)
DC14	0.75	3.38
DC21 and DC22	0.25 (each)	1.62 (each)
DC25 and DC26	0.50 (each)	2.58 (each)
DC27	1.00	4.10
DC29	0.20	1.39
DC34	0.75	3.38
DC35	3.75	9.94
DC36	30.00	40.04
DC39 through DC46	0.75 (each)	3.38 (each)
DC51	0.375	2.13
DC55 and DC56	0.75 (each)	3.38 (each)
DC59	1.00	4.10
DC62	0.50	2.58
DC63	0.75	3.38
DC64*	4.40	11.06
DC69	1.00	4.10

Dust Collector	Process Weight Rate (tons/hr)	Particulate Emissions (lbs/hr)
DC70 and DC72	1.50 (each)	5.38 (each)
DC76	1.25	4.76
DC79 through DC91	1.50 (each)	5.38 (each)
DC92 and DC93	2.50 (each)	7.58 (each)
DC94 through DC96	1.50 (each)	5.38 (each)
DC97	0.75	3.38
DC98	1.50	5.38
DC101	0.75	3.38
DC102	1.00	4.10
DC103	2.25	7.06
DC107	2.50	7.58
DC108	3.00	8.59
DC112	1.50	5.38
DC113 and DC114	1.25	4.76
DC115	1.00	4.10
DC116	0.50	2.58
DC117	1.50	5.38

*Note: DC64 is a wet scrubber

The pounds per hour limitations were calculated with the following equations:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

D.3.3 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan is required for these facilities and their control devices. 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.3.4 Particulate Matter (PM)

In order to comply with Conditions D.3.1, and D.3.2, the dust collectors and wet scrubber for PM, PM₁₀, and PM_{2.5} control shall be in operation at all times when the processes they control are in operation

Compliance Monitoring Requirements [326 IAC 2-6.1-5(a)(2)]

D.3.5 Baghouse Inspections

An inspection shall be performed of all bags in each of the following dust collectors on a semi-annual basis. All defective bags shall be replaced.

Control ID
DC1 through DC14
DC21 and DC22
DC25 through DC27
DC29
DC34 through DC36
DC39 through DC46
DC51
DC55 and DC56
DC59
DC62 and DC63
DC69 through DC72
DC76
DC79 through DC98
DC101 through
DC103
DC107 and DC108
DC112 through
DC117

D.3.6 Broken or Failed Bag Detection

- (a) For a single compartment baghouses 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 C - Response to Excursions or Exceedances).

- (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 line. 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 C - Response to Excursions or Exceedances).

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, dust traces or triboflows.

D.3.7 Wet Scrubber Parametric Monitoring

The Permittee shall record the liquid flow rate and the pressure drop for the one (1) wet scrubber, identified DC64, at least once per day when the icing blenders are in operation.

- (a) When for any one reading, the flow rate of the wet scrubber, identified as DC64, is less than the normal minimum of 2 gallons per minute, or a minimum established during the latest stack test, the Permittee shall take reasonable response steps.
- (b) When for any one reading, the pressure drop across the wet scrubber, identified as DC64, is outside the normal range of 0.5 to 4.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps.

A pressure reading that is outside the above mentioned range or a flow rate that is below the above mentioned minimum is not a deviation from this permit. Failure to take response steps shall be considered a deviation from this permit. Section C – Response to Excursions and Exceedances contains the Permittee's obligation with regard to the reasonable response steps required by this condition.

The instruments used for determining the pressure drop and flow rate 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.3.8 Scrubber Failure Detection

In the event that a scrubber malfunction has been observed for the wet scrubber (DC64):

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 C - Response to Excursions or Exceedances).

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.3.9 Record Keeping Requirements

- (a) To document the compliance status with Condition D.3.5, the Permittee shall maintain records of the results of the inspections required under Condition D.3.5.
- (b) To document the compliance status with Conditions D.3.7, the Permittee shall maintain a daily record of the liquid flow rate and the pressure drop of the one (1) wet scrubber, identified as DC64. The Permittee shall include in its daily record when a reading is not taken and the reason for the lack of a reading, (i.e. 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.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Cold Cleaner Degreaser

(92) One (1) Safety Kleen cold cleaner degreaser, designated No. 87, constructed in 1988, using a maximum of 0.056 gallons of solvent per day. and exhausting within the building;

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

D.4.1 Cold Cleaner Operation [326 IAC 8-3-2]

Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), the owner of a cold cleaner operation shall:

- (1) Equip the cleaner with a cover;
- (2) Equip the cleaner with a facility for draining cleaned parts;
- (3) Close the degreaser cover whenever parts are not being handled in the cleaner;
- (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
- (5) Provide a permanent, conspicuous label summarizing the operation requirements;
- (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.4.2 Preventive Manitenance Plan [326 IAC 1-6-3]

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

SECTION D.5 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: VOL Storage Vessels

- (97) Two (2) 14,000 gallon alcohol storage tanks, with four (4) compartments TA64, TA65, TA66 and TA67, exhausting through Stack Nos. 13 and 14, respectively, constructed in 1982 and 1985, respectively;

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

Emission Limitations and Standards [326 IAC 2-6.1-5(a)(1)]

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

Pursuant to 326 IAC 8-9-1(b), the two (2) 14,000 gallon alcohol storage tanks are subject to the reporting and record keeping provisions of 326 IAC 8-9-6(a) and 326 IAC 8-9-6(b) and are exempt from all other provisions of 326 IAC 8-9.

Record Keeping and Reporting Requirements [326 IAC 2-6.1-5(a)(2)]

D.5.2 Record Keeping Requirements

- (a) To document compliance with Condition D.5.1, the Permittee shall maintain permanent records at the source in accordance with (1) through (3) below:
- (1) The identification number of each storage vessel;
 - (2) The dimension of each storage vessel; and
 - (3) An analysis showing the capacity of each storage vessel.
- (b) Section C - General Record Keeping Requirements, contains the Permittee's obligations with regard to the records required by this condition.

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

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	General Mills
Address:	707 Pillsbury Lane
City:	New Albany, Indiana 47150
Phone #:	(812) 944-8411
MSOP #:	M043-31016-00050

I hereby certify that General Mills is:

still in operation.

I hereby certify that General Mills is:

no longer in operation.

in compliance with the requirements of MSOP M043-31016-00050.

not in compliance with the requirements of MSOP M043-31016-00050.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FAX NUMBER: (317) 233-6865

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ?_____, 25 TONS/YEAR SULFUR DIOXIDE ?_____, 25 TONS/YEAR NITROGEN OXIDES?_____, 25 TONS/YEAR VOC ?_____, 25 TONS/YEAR HYDROGEN SULFIDE ?_____, 25 TONS/YEAR TOTAL REDUCED SULFUR ?_____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ?_____, 25 TONS/YEAR FLUORIDES ?_____, 100 TONS/YEAR CARBON MONOXIDE ?_____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ?_____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ?_____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ?_____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ?_____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF "MALFUNCTION" AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. () _____
LOCATION: (CITY AND COUNTY) _____
PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____ INSP: _____
CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/20____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/20____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO2, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

Please note - This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6 and to qualify for the exemption under 326 IAC 1-6-4.

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

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

Addendum to the Technical Support Document (ATSD) for a
Federally Enforceable State Operating Permit (FESOP)
Transitioning to a Minor Source Operating Permit (MSOP)

Source Background and Description
--

Source Name:	General Mills
Source Location:	707 Pillsbury Lane, New Albany, IN 47150
County:	Floyd
SIC Code:	2045
Operation Permit No.:	043-31016-00050
Permit Reviewer:	Jason R. Krawczyk

On February 7, 2012, the Office of Air Quality (OAQ) had a notice published in the New Albany Tribune, New Albany, Indiana, stating that General Mills had applied for a Minor Source Operating Permit. The notice also stated that the OAQ proposed to issue a MSOP for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

Comments and Responses

On March 5, 2012, General Mills submitted comments to IDEM, OAQ on the draft FESOP transitioning to a MSOP.

The Technical Support Document (TSD) is used by IDEM, OAQ for historical purposes. IDEM, OAQ does not make any changes to the original TSD, but the Permit will have the updated changes. The comments and revised permit language are provided below with deleted language as ~~strikeouts~~ and new language **bolded**.

Comment 1:

General Mills requests the quarterly baghouse inspection frequency be reduce to a biannual baghouse inspection frequency.

Response to Comment 1:

One of the resolutions under Appeal Resolution F043-24591-00050, issued June 21, 2007 was to remove parametric monitoring and replace it with quarterly baghouse inspections. Therefore, the quarterly baghouse inspections cannot be removed.

For externally exhausting control devices, the requirement that the Permittee perform baghouse inspections each calendar quarter is maintained.

However, upon further evaluation, it was determined that the Permittee shall perform baghouse inspections for the internally exhausting control devices on a semi-annual basis. Based on this, Condition D.3.5 is changes as follows:

...

D.3.5 Baghouse Inspections

An inspection shall be performed ~~each calendar quarter~~ of all bags in each of the following dust collectors **on a semi-annual basis**. All defective bags shall be replaced.

...

IDEM Contact

- (a) Questions regarding this proposed Minor Source Operating Permit can be directed to Jason R Krawczyk at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5174 or toll free at 1-800-451-6027 extension 4-5174.
- (b) A copy of the permit 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

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

Technical Support Document (TSD) for a
Federally Enforceable State Operating Permit (FESOP)
Transitioning to a Minor Source Operating Permit (MSOP)

Source Description and Location

Source Name: General Mills
Source Location: 707 Pillsbury Lane, New Albany, IN 47150
County: Floyd
SIC Code: 2045
Operation Permit No.: 043-31016-00050
Permit Reviewer: Jason R. Krawczyk

On March 1, 2011, General Mills submitted an application to the OAQ requesting to renew its FESOP F043-22938-00050, issued on November 28, 2006. In addition to the application submitted on March 1, 2011, the Office of Air Quality (OAQ) received an application from General Mills, on October 7, 2011, related to the transition of a FESOP to a MSOP. These permit applications have been combined into one application identified as M043-31016-00050.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) FESOP No. F043-22943-00050, issued on November 28, 2006; and
- (b) Minor Permit Revision 043-24591-00050, issued June 21, 2007.

The application submitted on October 7, 2011 requested the removal of fuel oil capabilities from existing Boilers Nos. 1 through 3. By removing the No.2 and No.4 fuel oil capabilities from the existing boilers, the source wide potential to emit SO₂ is decreased below Title V thresholds and allows the source to qualify for a MSOP. Due to this application, the source is transitioning from a FESOP to a MSOP.

County Attainment Status

The source is located in Floyd County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective July 19, 2007, for the 8-hour ozone standard. ¹
PM ₁₀	Unclassifiable effective November 15, 1990.
NO ₂	Cannot be classified or better than national standards.
Pb	Not designated.

¹Attainment effective October 23, 2001, for the 1-hour ozone standard for the Louisville area, including Floyd County, and is a maintenance area for the 1-hour ozone National Ambient Air Quality Standard (NAAQS) for purposes of 40 CFR Part 51, Subpart X*. The 1-hour standard was revoked effective June 15, 2005.

Basic nonattainment designation effective federally April 5, 2005, for PM_{2.5}.

- (a) **Ozone Standards**
Volatile organic compounds (VOC) and Nitrogen Oxides (NO_x) 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 NO_x emissions are considered when evaluating the rule applicability relating to ozone. Floyd 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 Floyd 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**
Floyd County has been classified as attainment or unclassifiable in Indiana for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.

Fugitive Emissions

- (a) The fugitive emissions of criteria pollutants and hazardous air pollutants are counted toward the determination of 326 IAC 2-6.1 (Minor Source Operating Permits) applicability.
- (b) Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2, 326 IAC 2-3, or 326 IAC 2-7, and there is no applicable New Source Performance Standard that was in effect on August 7, 1980, fugitive emissions are not counted toward the determination of PSD, Emission Offset, and Part 70 Permit applicability.

Background and Description of Permitted Emission Units

On March 1, 2011, General Mills submitted an application to the OAQ requesting to renew its FESOP F043-22938-00050, issued on November 28, 2006. On October 7, 2011, the Office of Air Quality (OAQ) received an application from General Mills related to the transition of a FESOP to a MSOP. The source is removing the No.2 and No.4 fuel oil capabilities from Boilers 1 through 3. This removal decreases the source wide potential to emit SO₂ below Title V thresholds and allows the source to qualify for a MSOP. These permit applications have been combined into M043-31016-00050.

The source consists of the following permitted emission units:

- (a) Two (2) natural gas-fired boilers (BO1 and BO2), designated Nos. 1 and 2, respectively, both installed in 1959, each with maximum heat input rates of 10.1 MMBtu per hour, and exhausting through Stack Nos. 125 and 126, respectively;
- (b) One (1) natural gas-fired boiler (BO3), designated No. 3, installed in 1966, with a maximum heat input rate of 12.5 MMBtu per hour, and exhausting through Stack No. 127;
- (c) One (1) pneumatic flour conveyance and storage system with an integral dust collector DC74, constructed in 2010, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 150;

- (d) One (1) pneumatic dusting flour conveyance and storage system (BL79), with an integral dust collector DC79, exhausting inside the building;

Note: Previously the Dust Collector DC79 was identified as RC16002
- (e) One (1) pneumatic sugar conveyance with an air / material separator with an integral dust collector DC103, which exhausts inside the building, and a storage system with a sock vent which exhausts inside the building.
- (f) Two (2) pneumatically conveyed ribbon blenders with integral dust collectors DC77 and DC78, each constructed in 1998, each with a maximum handling capacity of 20,000 lbs/hr, and exhausting through Stack Nos. 153 and 154, respectively;
- (g) First Stage Minors Bin Nos. 1, 2 and 3 with three (3) integral dust collectors designated DC83, DC84 and DC85 exhausting within the building;

Note: Previously the DC83, DC84, and DC85 exhausts were identified as exhausting through stacks 160, 162, and 163.
- (h) One (1) pneumatically conveyed cookie blender with an integral dust collector DC58, with a maximum handling capacity of 4,000 lbs/hr, and exhausting through Stack No. 8;
- (i) One (1) pneumatically conveyed vertical tower bin, designated No. 4, with an integral dust collector DC04, exhausting within the building;

Note: Previously the DC04 exhaust was identified as exhausting through stack 20.
- (j) One (1) pneumatically conveyed vertical tower bin, designated No. 9, with an integral dust collector DC09, exhausting within the building;

Note: Previously the DC09 exhaust was identified as exhausting through stack 21.
- (k) One (1) pneumatically conveyed dusting flour reclaim bin with an integral dust collector DC37, with a maximum handling capacity of 55,000 lbs/hr, and exhausting through Stack No. 167;
- (l) One (1) pneumatically conveyed horizontal bin with an integral dust collector DC30, exhausting through Stack No. 48;
- (m) One (1) pneumatically conveyed sugar grinding bin, with an integral dust collector DC50, with a maximum handling capacity of 180 lbs/hr, and exhausting through Stack No. 55;
- (n) Two (2) pneumatically conveyed flour reclaim collectors, designated C1L and C2L, each constructed in 1977, with integral dust collectors DC17 and DC16, respectively, each with a maximum handling capacity of 1200 lbs/hr, and exhausting through Stack Nos. 66 and 67, respectively;
- (o) One (1) pneumatically conveyed flour reclaim collector, designated PCL, constructed in 1977, with an integral dust collector DC15, with a maximum handling capacity of 200 lbs/hr, and exhausting through Stack No. 68;
- (p) One (1) pneumatically conveyed flour reclaim collector, designated HJL, constructed in 1977, with an integral dust collector DC18, with a maximum handling capacity of 1200 lbs/hr, and exhausting through Stack No. 69;
- (q) One (1) pneumatically conveyed flour reclaim collector, designated BRL, constructed in 1977, with an integral dust collector DC24, with a maximum handling capacity of 1200 lbs/hr, and exhausting

through Stack No. 71;

- (r) One (1) pneumatically conveyed penthouse collector, designated PC, constructed in 1994, with an integral dust collector DC38, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 98a;
- (s) One (1) pneumatically conveyed surge bin, designated DC, constructed in 1992, with an integral dust collector DC48, with a maximum handling capacity of 35,000 lbs/hr, and exhausting through Stack No. 98b;
- (t) Two (2) pneumatically conveyed starch bins, designated Nos. 12 and 13, with integral dust collectors DC12 and DC13, respectively, exhausting within the building;

Note: Previously the DC12 and DC13 exhausts were identified as exhausting through stacks 104 and 105.
- (u) One (1) pneumatically conveyed flour bin, designated Western, with an integral dust collector DC36, exhausting within the building;
- (v) Two (2) pneumatically conveyed unloader bins, designated Nos. 2 and 4, with integral dust collectors DC53 and DC60, respectively, with maximum handling capacities of 40,000 and 60,000 lbs/hr, respectively, and exhausting through Stack Nos. 139 and 137, respectively; and
- (w) One (1) upstairs dry mix central vacuum system with an integral dust collector DC109, collecting fugitive raw materials at a maximum rate of 105 pounds per hour, and emissions exhausted through Stack 161.
- (x) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million BTU per hour:
 - (1) Three (3) natural gas-fired HVAC / pest control heaters (AH30, AH31 and AH32), designated Nos. 1, 2, and 3, respectively, with maximum heat input rates of 4.5, 2.725, and 2.725 million (MM) British thermal units (Btu) per hour, respectively, exhausting through Stack Nos. 179, 184, and 166, respectively;
 - (2) Three (3) natural gas-fired pest control heaters (AH27, AH28 and AH29), designated Nos. 4, 5, and 6, respectively, with maximum heat input rates of 2.0, 2.5 and 2.0 MMBtu per hour, respectively, exhausting through Stack Nos. 85, 140, and 135, respectively;
 - (3) One (1) natural gas-fired pest control heater (AH26), designated No. 7, with a maximum heat input rate of 0.75 MMBtu per hour, exhausting through Stack No. 142;
 - (4) One (1) natural gas-fired HVAC / pest control heater (AH39), designated No. 8, with a maximum heat input rate of 0.40 MMBtu per hour, exhausting through Stack No. 185.
 - (5) One (1) propane fired WWTP flare, with a maximum heat input capacity of 0.036 MMBtu per hour;
- (y) Four (4) general ventilation unit scrubbers (SB2, SB3, SB4 and SB5), located in PKL Rotoclone, BRL, C1L, and C2L, respectively, for removal of carbon dioxide refrigerant from the employee occupied area, exhausting through Stack Nos. 52, 60, 70, and 65, respectively;
- (z) One (1) Safety Kleen cold cleaner degreaser, designated No. 87, constructed in 1988, using a maximum of 0.056 gallons of solvent per day. and exhausting within the building;

- (aa) Two (2) 14,000 gallon alcohol storage tanks, with four (4) compartments TA64, TA65, TA66 and TA67, exhausting through Stack Nos. 13 and 14, respectively, constructed in 1982 and 1985, respectively;
- (bb) One (1) stick welding operation; and
- (cc) One (1) central vacuum system with dust collector DC110, constructed in 1998, collecting fugitive raw materials at a maximum rate of 480 pounds per hour, and emissions exhausted through Stack 183.

Emission Units and Pollution Control Equipment Previously Not Identified

The source contains the following new emission units:

- (a) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 1, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC01, and exhausting within the building;
- (b) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 2, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC02, and exhausting within the building;
- (c) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 3, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC03, and exhausting within the building;
- (d) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 5, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC05, and exhausting within the building;
- (e) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 6, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC06, and exhausting within the building;
- (f) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 7, constructed in 1972, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC07, and exhausting within the building;
- (g) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 8, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC08, and exhausting within the building;
- (h) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 10, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC10, and exhausting within the building;
- (i) One (1) pneumatically conveyed vertical tower bin, identified as Dust Collector Bin No. 11, constructed in 1981, with a maximum handling capacity of 25,000 lbs/hr, utilizing integral dust collector DC11, and exhausting within the building;
- (j) One (1) pneumatically conveyed dusting flour collector, identified as DC14, controlling C2L/C1L, constructed in 1986, with a maximum handling capacity of 1,500lbs/hr, and exhausting within the building.
- (k) One (1) pneumatically conveyed reclaim collector, identified as DC19, constructed in 1977, controlling Bin 43, constructed in 1977, with a maximum handling capacity of 1,000 lbs/hr, and

exhausting through stack 56.

- (l) One (1) pneumatically conveyed flour reclaim collector, identified as DC20, constructed in 1977, controlling HJBP, constructed in 1977, with maximum handling capacity of 468 lbs/hr, and exhausting through stack 56.
- (m) One (1) pneumatically conveyed reclaim collector, identified as DC21, controlling Bin 42, constructed in 1987, with a maximum handling capacity of 500 lbs/hr, and exhausting within the building.
- (n) One (1) pneumatically conveyed dusting flour collector, identified as DC22, controlling BIL & BRL, constructed in 1987, with a maximum handling capacity of 500 lbs/hr, and exhausting within the building.
- (o) One (1) pneumatically conveyed integral dust collector, identified as DC25, controlling the No. 1 Entoleter, constructed in 1967, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (p) One (1) pneumatically conveyed integral dust collector, identified as DC26, controlling the No. 2 Entoleter, constructed in 1967, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (q) Two (2) pneumatically conveyed sugar grinding bins, identified as Bin 28 and Bin 29, constructed in 1967, with a combined maximum handling capacity of 2,000 lbs/hr, utilizing integral dust collector DC27, and exhausting within the building.
- (r) One (1) pneumatically conveyed integral dust collector, identified as DC29, constructed in 1982, with a maximum handling capacity of 400 lbs/hr, and exhausting within the building.
- (s) One (1) pneumatically conveyed corn sugar collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC34, and exhausting within the building.
- (t) One (1) pneumatically conveyed salt bin, identified as DC1 Salt 1, constructed in 1982, with a maximum handling capacity of 7500 lbs/hr, utilizing integral dust collector DC35, and exhausting within the building.
- (u) One (1) pneumatically conveyed interim sugar collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC39, and exhausting within the building.
- (v) One (1) pneumatically conveyed interim salt collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC40, and exhausting within the building.
- (w) One (1) pneumatically conveyed interim soda collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC41, and exhausting within the building.
- (x) One (1) pneumatically conveyed interim SALP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC42, and exhausting within the building.
- (y) One (1) pneumatically conveyed interim S-SAPP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC43, and exhausting within the building.
- (z) One (1) pneumatically conveyed interim SAPP collector, with a maximum handling capacity of 1,500 lbs/hr, utilizing integral dust collector DC44, and exhausting within the building.
- (aa) One (1) pneumatically conveyed integral dust collector, identified as DC45, controlling the Cookie Minors, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.

- (bb) One (1) pneumatically conveyed integral dust collector, identified as DC46, controlling the Cookie/Combo Line 3 sugar, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (cc) One (1) pneumatically conveyed integral dust collector, identified as DC51, controlling the sugar grinding starch, constructed in 1981, with a maximum handling capacity of 750 lbs/hr, and exhausting within the building.
- (dd) One (1) pneumatically conveyed integral dust collector, identified as DC55, controlling the interim bag dump, constructed in 1977, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (ee) One (1) pneumatically conveyed integral dust collector, identified as DC56, controlling PHL Gluten, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (ff) One (1) pneumatically conveyed integral dust collector, identified as DC59, controlling the Can Prep, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (gg) One (1) pneumatically conveyed integral dust collector, identified as DC62, controlling the Cookie Preblend, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (hh) One (1) pneumatically conveyed integral dust collector, identified as DC63, controlling the CFL Soda, constructed in 1985, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (ii) One (1) wet scrubber, identified as DC64, controlling a series of icing blenders, with a maximum handling capacity of 8,800 lbs/hr, and exhausting within the building.
- (jj) One (1) pneumatically conveyed integral dust collector, identified as DC69, controlling corn meal particulate, constructed in 1989, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (kk) One (1) pneumatically conveyed integral dust collector, identified as DC70, controlling the DSDM Gluten Supersack, with a maximum capacity of 3,000 lbs/hr, and exhausting within the building.
- (ll) One (1) pneumatically conveyed integral dust collector/bin filter, identified as DC72, controlling the downstairs dry mix area, with maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (mm) One (1) pneumatically conveyed integral dust collector, identified as DC73, constructed in 1998, controlling the top of hungry jack ribbon blender 04, constructed in 1998, with a maximum handling capacity of 12,800 lbs/hr, and exhausting through Stack 61.
- (nn) One (1) pneumatically conveyed integral dust collector, identified as DC76, controlling the gluten preblend bag dump, constructed in 1998, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (oo) One (1) pneumatically conveyed integral dust collector, identified as DC80, controlling the Combo Line 3 Xanthan Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (pp) One (1) pneumatically conveyed integral dust collector, identified as DC81, controlling the Combo Line 3 Panadam Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.

- (qq) One (1) pneumatically conveyed integral dust collector, identified as DC82, controlling the Combo Line 3 Diamodam Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (rr) One (1) pneumatically conveyed integral dust collector, identified as DC86, controlling the Combo Line 3 GDL Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (ss) One (1) pneumatically conveyed integral dust collector, identified as DC87, controlling the Combo Line 3 KCL Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (tt) One (1) pneumatically conveyed integral dust collector, identified as DC88, controlling the Combo Line 3 SALP Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (uu) One (1) pneumatically conveyed integral dust collector, identified as DC89, controlling the Combo Line 3 SAPP Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (vv) One (1) pneumatically conveyed integral dust collector, identified as DC90, controlling the Combo Line 3 Soda Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (ww) One (1) pneumatically conveyed integral dust collector, identified as DC91, controlling the Combo Line 3 Salt Bin, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (xx) One (1) pneumatically conveyed integral dust collector, identified as DC92, controlling the Combo Line 3 202 Sugar Bin, constructed in 1998, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (yy) One (1) pneumatically conveyed integral dust collector, identified as DC93, controlling the Combo Line 3 Corn Sugar Bin, constructed in 1998, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (zz) One (1) pneumatically conveyed integral dust collector, identified as DC94, controlling the Combo Line 3 Second Stage Minors Bin #1, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (aaa) One (1) pneumatically conveyed integral dust collector, identified as DC95, controlling the Combo Line 3 Second Stage Minors Bin #3, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (bbb) One (1) pneumatically conveyed integral dust collector, identified as DC96, controlling the Combo Line 3 Second Stage Minors Bin #2, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (bbb) One (1) pneumatically conveyed integral dust collector, identified as DC97, controlling the Combo Line 3 E. Soda Hopper, constructed in 1998, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (ccc) One (1) pneumatically conveyed integral dust collector, identified as DC98, controlling the Combo Line 3 Gluten Preblend Ribbon Blender, constructed in 1998, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.

- (ddd) One (1) pneumatically conveyed integral dust collector, identified as DC101, controlling the Supersack Bag Dump, constructed in 1998, with a maximum handling capacity of 1,500 lbs/hr, and exhausting within the building.
- (eee) One (1) pneumatically conveyed integral final dust collector and slidegate, identified as DC102, constructed in 1998, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (fff) One (1) pneumatically conveyed dust collector, identified as DC107, controlling the corn sugar form the Puck Line sugar grinding area, constructed in 2000, with a maximum handling capacity of 5,000 lbs/hr, and exhausting within the building.
- (ggg) One (1) pneumatically conveyed integral dust collector, identified as DC108, controlling the Combo Line 3 De-dusting system, with a maximum handling capacity of 6,000 lbs/hr, and exhausting within the building.
- (hhh) One (1) bread flour cooling blender, identified as BR9, constructed in 1985, with an integral dust collector DC111, with a maximum handling capacity of 8,050 lbs/hr, and exhausting to stack No. 165.

Note: BR9 was included in the PTE calculations for MSOP Renewal 043-19812-00050, issued May 6, 2005 but was not incorporated into the permit.
- (iii) One (1) pneumatically conveyed integral dust collector, controlling the cookie sugar grinding bin, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (jjj) One (1) pneumatically conveyed integral dusting flour reclaim collector, controlling the pie crust rice dusting, identified as DC 113, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (kkk) One (1) pneumatically conveyed integral dust collector, controlling the pie crust rice flour, identified as DC114, with a maximum handling capacity of 2,500 lbs/hr, and exhausting within the building.
- (lll) One (1) pneumatically conveyed integral HJ NFDM System dust collector, identified as DC115, constructed in 2003, with a maximum handling capacity of 2,000 lbs/hr, and exhausting within the building.
- (mmm) One (1) pneumatically conveyed integral dust collector, controlling the pie crust sifter, identified as DC 116, with a maximum handling capacity of 1,000 lbs/hr, and exhausting within the building.
- (nnn) One (1) pneumatically conveyed integral dust collector, controlling the gluten preblend, identified as DC117, constructed in 2010, with a maximum handling capacity of 3,000 lbs/hr, and exhausting within the building.
- (ooo) Seventeen (17) Videojet coding units, utilizing no control devices, and exhausting within the building.
- (ppp) Sixteen (16) ammonia condensers;
- (qqq) Two (2) cooling towers, identified as CT8 and CT9, each with a 250 gal/hr circulation rate; and

Emission Units and Pollution Control Equipment Removed From the Source

The source has removed the following emission units:

- (a) One (1) propane-fired boiler, designated No. 4, installed in 1959, with a maximum heat input rate of 1.6 MMBtu per hour, exhausting through Stack No. 128;
- (b) One (1) pneumatically conveyed unloader bin, designated as No. 3, with integral dust collector DC52, and exhausting through stack No. 138.
- (c) One (1) pneumatically conveyed flour cooler with an integral dust collector DC61, exhausting through Stack No. 61;
- (d) One (1) 12,000 gallon No. 2 fuel oil/ No. 4 fuel oil storage tank, identified as TA77, exhausting through Stack No. 12, constructed in 1978;

“Integral Part of the Process” Determination

The following justification was incorporated into this permit from the initial MSOP 043-10995-00050, issued on November 9, 1999:

- (a) The dust collectors, which collect and return raw material and ingredients collected to the process shall be considered an integral part of the various pneumatically conveyed bins and collectors.
- (b) The production process could not be operated without the dust collectors also being in operation since the dust collectors are required to ensure that the all of the raw materials are used in the process.

IDEM, OAQ evaluated the justifications at the time of issuance of the initial MSOP 043-10995-00050 and agreed the dust collectors/baghouses will be considered as an integral part of the process. Therefore, the permitting level will be determined using the potential to emit after the dust collectors/baghouses. Operating conditions in the proposed permit will specify that the dust collectors/baghouses shall operate at all times when the pneumatic conveyance system is in operation.

Enforcement Issues

IDEM is reviewing whether the previously unidentified emission units would have required prior construction and/or operating approval and will take the appropriate action. This proposed approval is intended to satisfy the requirements of the construction permit rules.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – MSOP

The following table reflects the unlimited potential to emit (PTE) of the entire source before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	Greater than 100, Less than 250*
PM10 ⁽¹⁾	Less than 100, Greater than 25*
PM2.5	Less than 100, Greater than 25*
SO ₂	Less than 25
NO _x	Less than 25
VOC	Less than 25
CO	Less than 25
GHGs as CO ₂ e	Less than 100,000

- (1) Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant".

* The control devices for the dry ingredient dust collectors have been determined to be integral to the process therefore permit level was determined after control.

HAPs	Potential To Emit (tons/year)
Hexane	0.41
Formaldehyde	0.01
Combined HAPs	0.43

- (a) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of PM10 and PM2.5 are each less than one hundred (100) tons per year, but greater than or equal to twenty-five (25) tons per year. The PTE of all other regulated criteria pollutants are less than twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-6.1. A Minor Source Operating Permit (MSOP) will be issued.
- (b) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) of any single HAP is less than ten (10) tons per year and the PTE of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-7.
- (c) The potential to emit (PTE) (as defined in 326 IAC 2-1.1-1) greenhouse gases (GHGs) is less than the Title V subject to regulation threshold of one hundred thousand (100,000) tons of CO₂ equivalent emissions (CO₂e) per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.

PTE of the Entire Source After Issuance of the MSOP
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The table below summarizes the potential to emit of the entire source after issuance of this MSOP, reflecting all limits, of the emission units.

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of MSOP (tons/year)									
	PM	PM10*	PM2.5**	SO ₂	NO _x	VOC	CO	GHGs as CO ₂ e**	Total HAPs	Worst Single HAP
Pest Control Heaters	0.15	0.59	0.59	0.05	7.71	0.42	6.48	9,307	0.15	0.14 Hexane
Boilers 1 -3	0.27	1.09	1.09	0.09	14.32	0.79	12.03	17,292	0.27	0.26 Hexane
WWTP Flare	Negl	Negl	Negl	Negl	0.02	Negl	0.01	22	-	-
External Exhausting DCs	43.07	43.07	43.07	-	-	-	-	-	-	-
Internal Exhausting DCs	36.25	12.70	12.70	-	-	-	-	-	-	-
Wet Scrubber DC64	17.37	17.37	17.37	-	-	-	-	-	-	-
General Ventilation Units	1.26	1.26	1.26	-	-	-	-	12,528	-	-
Videojet Units	-	-	-	-	-	0.40	-	-	0.01	0.01
Cold Cleaner	-	-	-	-	-	0.07	-	-	-	-
Welding	0.02	0.02	0.02	-	-	-	-	-	Negl.	-
Ammonia Condensers	11.86	11.86	11.86	-	-	-	-	-	-	-
Cooling Towers (Fugitive)	0.46	0.46	0.46	-	-	-	-	-	-	-
Roadways (Fugitive)	1.95	0.39	0.10	-	-	-	-	-	-	-
Total PTE of Entire Source	110.25	87.96	87.96	0.13	22.05	1.68	18.52	39,149	0.43	0.41 Hexane
Title V Major Source Thresholds***	NA	100	100	100	100	100	100	100,000	25	10
PSD Major Source Thresholds***	250	250	250	250	250	250	250	100,000	NA	NA
Nonattainment NSR Major Source Thresholds	NA	NA	100	NA	NA	NA	NA	NA	NA	NA
Negl. = negligible *Under the Part 70 Permit program (40 CFR 70), particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10), not particulate matter (PM), is considered as a "regulated air pollutant". **PM _{2.5} listed is direct PM _{2.5} . ***The 100,000 CO ₂ e threshold represents the Title V and PSD subject to regulation thresholds for GHGs in order to determine whether a source's emissions are a regulated NSR pollutant under Title V and PSD.										

- (a) PSD and Nonattainment Minor Limits
 The potential to emit PM/PM10/PM2.5 from the entire source is greater than 250 tons per year before consideration of the integral controls (see Appendix A). The source has agreed to limit emission to less than the PSD and Nonattainment major source levels.

In order to render 326 IAC 2-2 (PSD) and 326 IAC 2-1.1-5 (Nonattainment New Source Review) not applicable, the source shall comply with the following:

Dust Collector(s)	PM Limit (lbs/hr)	PM10/PM2.5 Limit (lbs/hr)
DC1 through DC13	0.393 (each)	0.138 (each)
DC14	0.024	0.008
DC15	0.19	0.19
DC16	0.51	0.51
DC17	0.43	0.43
DC18	0.48	0.48
DC19 and DC20	0.48 (combined)	0.48 (combined)
DC21 and DC22	0.008 (each)	0.003 (each)
DC24	0.36	0.36
DC25 and DC26	0.16	0.006
DC27	0.031	0.011
DC29	0.006	0.002
DC30	0.89	0.89
DC34	0.024	0.008
DC35	0.118	0.041
DC36	0.942	0.330
DC37	0.14	0.14
DC38	0.48	0.48
DC39 through DC46	0.024 (each)	0.008 (each)
DC48	0.21	0.21
DC50	0.20	0.20
DC51	0.012	0.004
DC53	0.31	0.31
DC55 and DC56	0.024 (each)	0.008 (each)
DC58	0.14	0.14
DC59	0.031	0.011
DC60	0.31	0.31

Dust Collector(s)	PM Limit (lbs/hr)	PM10/PM2.5 Limit (lbs/hr)
DC62	0.016	0.006
DC63	0.024	0.008
DC64	6.86	6.86
DC69	0.031	0.011
DC70 and DC72	0.047 (each)	0.017 (each)
DC73	0.51	0.51
DC74	0.27	0.27
DC76	0.039	0.014
DC77 and DC78	0.34 (each)	0.34 (each)
DC79 through DC91	0.047 (each)	0.017 (each)
DC92 and DC93	0.079 (each)	0.028 (each)
DC94 through DC96	0.047 (each)	0.017 (each)
DC97	0.024	0.008
DC98	0.047	0.017
DC101	0.024	0.008
DC102	0.031	0.011
DC103	0.071	0.025
DC107	0.079	0.028
DC108	0.094	0.033
DC109	0.08	0.08
DC110	0.48	0.48
DC111	0.17	0.17
DC112	0.047	0.017
DC113 and DC114	0.039 (each)	0.014 (each)
DC115	0.031	0.011
DC116	0.016	0.006
DC117	0.047	0.017

Compliance with these limits, combined with the PM and PM10 potential to emit from all other emission units at this source, shall limit the source-wide total emissions to less than 250 tons per year and shall render 326 IAC 2-2 (PSD) not applicable.

Compliance with these limits, combined with the PM2.5 potential to emit from all other emission units at this source, shall limit the source-wide total emissions to less than 100 tons per year and shall render 326 IAC 2-1.1-5 (Nonattainment New Source Review) not applicable.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Dc (326 IAC 12), are not included in the permit for the three (3) boilers, designated as Boilers #1, #2, and #3. 40 CFR 60, Subpart Dc applies to each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million Btu per hour (MM Btu/hr) or less, but greater than or equal to 2.9 MW (10 MM Btu/hr)). Boilers #1 and #2 were constructed in 1959 and Boiler #3 was constructed in 1966, before the June 9, 1989, rule applicability date.
- (b) The requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60.110b, Subpart Kb) "Standards of Performance for Volatile Organic Liquid Storage Vessels" are not included in the permit for the one (1) 14,000 gallon alcohol storage tank exhausting through Stack No. 14. Although it was constructed in 1985, after the July 23, 1984 rule applicability date, the tank has a storage capacity of less than 75 cubic meters.

- (c) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included in the permit.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (d) The requirements of the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63.7480, Subpart DDDDD (326 IAC 20-95) are not included in the permit, because this source is not a major source of HAPs.
- (e) The requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63.11193, Subpart JJJJJ, are not included in the permit because Boilers No. 1 through 4 are gas-fired boilers, as defined by 40 CFR 63.11237, and are specifically exempted under 40 CFR 63.11195(e).
- (f) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included in the permit.

Compliance Assurance Monitoring (CAM)

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

State Rule Applicability Determination

The following state rules are applicable to the source:

- (a) 326 IAC 2-6.1 (Minor Source Operating Permits (MSOP))
MSOP applicability is discussed under the Permit Level Determination – MSOP section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This source is not a major stationary source, under PSD (326 IAC 2-2), because the potential to emit of all attainment regulated criteria pollutants are limited to less than 250 tons per year, the potential to emit greenhouse gases (GHGs) is less than 100,000 tons of CO₂e per year, and this source is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1). Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.
- (c) 326 IAC 2-1.1-5 (Nonattainment New Source Review)
This existing source is not a major stationary source, under 326 IAC 2-1.1-5 (Nonattainment New Source Review), because the potential to emit particulate matter with a diameter less than ten 2.5 micrometers (PM_{2.5}), is limited to less than 100 tons per year. Therefore, pursuant to 326 IAC 2-1.1-5, the Nonattainment New Source Review requirements do not apply.
- (d) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The potential to emit of any single HAP is less than ten (10) tons per year and the potential to emit of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA) and not subject to the provisions of 326 IAC 2-4.1.
- (e) 326 IAC 2-6 (Emission Reporting)
Pursuant to 326 IAC 2-6-1, this source is not subject to this rule, because it is not required to have an operating permit under 326 IAC 2-7 (Part 70), it is not located in Lake, Porter, or LaPorte County, and it does not emit lead into the ambient air at levels equal to or greater than 5 tons per year. Therefore, 326 IAC 2-6 does not apply.

- (f) 326 IAC 5-1 (Opacity Limitations)
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:
- (1) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (2) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.
- (g) 326 IAC 6-4 (Fugitive Dust Emissions Limitations)
Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions Limitations), the source shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4.
- (h) 326 IAC 6-5 (Fugitive Particulate Matter Emission Limitations)
The requirements of 326 IAC 6-5 are not applicable to the source because the potential fugitive particulate emissions are less than twenty five (25) tons per year.
- (i) 326 IAC 10-1 (Nitrogen Oxides Control in Clark and Floyd Counties)
The requirements of 326 IAC 10-1 are not applicable to the source because the source-wide potential to emit NO_x is less than one hundred (100) tons per year.

Boilers (Nos. 1 - 3)

- (j) 326 IAC 6-2-3 (Particulate Emission Limitations for Facilities Specified in 326 IAC 6-2-1(c))
This rule establishes limitations for sources of indirect heating, not located in the counties specified in 326 IAC 6-2-1(b), which were existing and in operation or which received permits to construct prior to September 21, 1983. The three (3) boilers (Nos. 1, 2, and 3), each constructed before September 21, 1983, are subject to 326 IAC 6-2-3 because they are not located in any of the specifically listed counties in 326 IAC 6-2-1(b). Pursuant to this rule, the PM emissions from each of the four boilers based on a total heat input rate of 32.70 MMBtu per hour shall be limited to 1.05 pounds per MMBtu heat input.

This limitation is based on the following equation:

$$Pt = \frac{C \times a \times h}{76.5 \times Q^{0.75} \times N^{0.25}}$$

where:

Pt = Pounds of particulate matter emitted per MMBtu heat input.

C = Maximum ground level concentration with respect to distance from the point source at the "critical" wind speed for level terrain = 50 μm^3

a = Plume rise factor = 0.67

h = Stack height = 43 ft

Q = Total source maximum operating capacity rating in MMBtu per hour = 32.70 MMBtu/hr

N = Number of stacks in fuel burning operation = 3

$$Pt = \frac{50 \times 0.67 \times 43}{76.5 \times 32.70^{0.75} \times 3^{0.25}} = 1.05 \text{ lb/MMBtu}$$

However, pursuant to 326 IAC 6-2-3(d), the allowable particulate emissions from all facilities used for indirect heating purposes which were existing and in operation on or before June 8, 1972, shall in no case exceed 0.80 pound per MMBtu heat input. Therefore, the allowable PM emissions from each of the three (3) boilers is 0.80 pound per MMBtu heat input.

- (k) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
Pursuant to 326 IAC 7-1.1-1, Boilers Nos. 1 through 3 are not subject to the requirements of 326 IAC 7-1.1, since each has unlimited sulfur dioxide (SO₂) emissions less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.
- (l) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Boilers Nos. 1 through 3 are not subject to the requirements of 326 IAC 8-1-6, since the potential unlimited VOC emissions from each are less than twenty-five (25) tons per year.

HVAC / Pest Control Heaters

- (m) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Each of the natural gas-fired HVAC and pest control heaters at this source is exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight. In addition, pursuant to 326 IAC 6-3-1(b)(14), each of the natural gas-fired pest control heaters at this source is also exempt from the requirements of 326 IAC 6-3, because they each have potential particulate emissions of less than five hundred fifty one thousandths (0.551) pound per hour.
- (n) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
Pursuant to 326 IAC 7-1.1-1, each of the natural gas-fired HVAC and pest control heaters at this source is not subject to the requirements of 326 IAC 7-1.1, since each has unlimited sulfur dioxide (SO₂) emissions less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.
- (o) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
Each of the natural gas-fired HVAC and pest control heaters at this source is not subject to the requirements of 326 IAC 8-1-6, since the potential unlimited VOC emissions from each unit is less than twenty-five (25) tons per year.

WWTP Flare

- (p) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
The WWTP flare is exempt from the requirements of 326 IAC 6-3, because, pursuant to 326 IAC 1-2-59, liquid and gaseous fuels and combustion air are not considered as part of the process weight. In addition, pursuant to 326 IAC 6-3-1(b)(14), the natural gas-fired WWTP flare at this source is also exempt from the requirements of 326 IAC 6-3, because it has potential particulate emissions less than five hundred fifty one thousandths (0.551) pound per hour.
- (q) 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations)
Pursuant to 326 IAC 7-1.1-1, the natural gas-fired WWTP flare at this source is not subject to the requirements of 326 IAC 7-1.1, since it has unlimited sulfur dioxide (SO₂) emissions less than twenty-five (25) tons per year and ten (10) pounds per hour respectively.
- (r) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The WWTP Flare at this source is not subject to the requirements of 326 IAC 8-1-6, since the potential unlimited VOC emissions are less than twenty-five (25) tons per year.

Material Handling (Dust Collectors and Scrubber)

- (s) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
 Pursuant to 326 IAC 6-3-2, particulate emissions from each of following emission units shall not exceed the pound per hour limit listed in the table below:

Dust Collector	Process Weight Rate (tons/hr)	Particulate Emissions (lbs/hr)
DC1 through DC13	12.50 (each)	22.27 (each)
DC14	0.75	3.38
DC15	0.10	0.88
DC16 through DC18	0.60 (each)	2.91 (each)
DC19	0.50	2.58
DC20	0.234	1.55
DC21 and DC22	0.25 (each)	1.62 (each)
DC24	0.60	2.91
DC25 and DC26	0.50 (each)	2.58 (each)
DC27	1.00	4.10
DC29	0.20	1.39
DC30	30.00	40.04
DC34	0.75	3.38
DC35	3.75	9.94
DC36	30.00	40.04
DC37	27.50	37.77
DC38	17.50	27.90
DC39 through DC46	0.75 (each)	3.38 (each)
DC48	17.50	27.90
DC50	0.09	0.82
DC51	0.375	2.13
DC53	20.00	30.51
DC55 and DC56	0.75 (each)	3.38 (each)
DC58	2.00	6.52
DC59	1.00	4.10
DC60	30.00	40.04

Dust Collector	Process Weight Rate (tons/hr)	Particulate Emissions (lbs/hr)
DC62	0.50	2.58
DC63	0.75	3.38
DC64*	4.40	11.06
DC69	1.00	4.10
DC70 and DC72	1.50 (each)	5.38 (each)
DC73	6.40	14.22
DC74	17.50	27.90
DC76	1.25	4.76
DC77 and DC78	10.00 (each)	19.18 (each)
DC79 through DC91	1.50 (each)	5.38 (each)
DC92 and DC93	2.50 (each)	7.58 (each)
DC94 through DC96	1.50 (each)	5.38 (each)
DC97	0.75	3.38
DC98	1.50	5.38
DC101	0.75	3.38
DC102	1.00	4.10
DC103	2.25	7.06
DC107	2.50	7.58
DC108	3.00	8.59
DC109	0.0525	0.57
DC110	0.24	1.58
DC111	4.025	10.42
DC112	1.50	5.38
DC113 and DC114	1.25	4.76
DC115	1.00	4.10
DC116	0.50	2.58
DC117	1.50	5.38

*Note: DC64 is a wet scrubber

The pounds per hour limitations were calculated with the following equations:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

DC1 through DC13, DC15 through DC20, DC24, DC30, DC35 through DC38, DC48, DC50, DC53, DC58, DC60, DC73, DC74, DC77, DC78, DC 92, DC93, DC103, and DC107 through DC111 shall be in operation at all times the operations they control are in operation, in order to comply with these limits.

Note: Since all of the dust collectors and the wet scrubber DC64 have been determined to be integral, the source shall operate all dust collectors and wet scrubber DC64 at all times the operations they control are in operation.

Videojet Coding Units

- (t) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-1(b)(14), the seventeen (17) videojet coding units are not subject to the requirements of 326 IAC 6-3-2 because particulate emissions from these units are less than five hundred fifty-one thousandths (0.551) pound per hour, each.
- (u) 326 IAC 8-1-6 (New Facilities; General Reduction Requirements)
The requirements of 326 IAC 8-1-6 are not applicable to the seventeen (17) videojet coding units because each of the units, although constructed after January 1, 1980, has the potential to emit VOC less than twenty-five (25) tons per year.
- (v) 326 IAC 8-5-5 (Graphic Arts Operations)
The seventeen (17) videojet coding units are not subject to the requirements of 326 IAC 8-5-5 because these units do not perform packaging rotogravure, publication rotogravure, and/or flexographic printing.
- (w) There are no 326 IAC 8 Rules that are applicable to the videojet coding units.

Cold Cleaner Degreaser

- (x) 326 IAC 8-3-2 (Cold Cleaner Operation)
The Safety Kleen cold cleaner degreaser is subject to the requirements of this rule. This rule applies to new facilities after January 1, 1980 performing organic solvent degreasing operations located anywhere in the state. Pursuant to 326 IAC 8-3-2 (Cold Cleaner Operations), for cold cleaning operations constructed after January 1, 1980, the Permittee shall:
 - (1) Equip the cleaner with a cover;
 - (2) Equip the cleaner with a facility for draining cleaned parts;
 - (3) Close the degreaser cover whenever parts are not being handled in the cleaner;
 - (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases;
 - (5) Provide a permanent, conspicuous label summarizing the operation requirements;
 - (6) Store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in such a manner that greater than twenty percent (20%) of the waste solvent (by weight) can evaporate into the atmosphere.
- (y) 326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)
The Safety Kleen cold cleaner degreaser is not subject to the requirements of this rule. This rule applies to existing cold cleaner degreasers as of July 1, 1990 and new cold cleaner degreasers constructed after July 1, 1990 without remote solvent reservoirs performing organic solvent degreasing operations located in Clark, Elkhart, Floyd, Lake, Marion, Porter, and St. Joseph Counties existing as of July 1, 1990. The Safety Kleen cold cleaner degreaser is a remote reservoir cleaner. Therefore, the requirements of this rule does not apply.

Welding

- (z) 326 IAC 6-3 (Particulate Emission Limitations, Work Practices, and Control Technologies)
Pursuant to 326 IAC 6-3-1(a)(9) the one (1) stick welding station is exempt from the requirements of 326 IAC 6-3, because the potential to consume welding wire is less than six hundred twenty-five (625) pounds per day.

Storage Tanks

- (aa) 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)
 The source is located Floyd County and has stationary vessels used to store volatile organic liquids (VOLs). The two (2) alcohol storage tanks have a capacity of less than thirty-nine thousand (39,000) gallons each, and are therefore only subject to the reporting and record keeping provisions of 326 IAC 8-9-6(a) and 326 IAC 8-9-6(b).

General Ventilation Units (SB2 - SB5)

- (bb) The primary purpose of the general ventilation units, identified as scrubbers SB2 through SB5, is to remove carbon dioxide refrigerant from the employee occupied areas. There are no applicable state rules for these units.

Compliance Determination, Monitoring and Testing Requirements
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- (a) The compliance determination and monitoring requirements applicable to this source are as follows:

Control ID	Stack ID	Parameter	Frequency	Range	Excursions and Exceedances
DC15 DC16 DC17 DC18 DC19 / DC20 DC24 DC30 DC37 DC38 DC48 DC50 DC53 DC58 DC60 DC73 DC74 DC77 DC78 DC109 DC110 DC111	68 67 66 69 56 71 48 167 98a 98b 55 139 8 137 61 150 153 154 161 183 165	Visible Emissions	Daily	Normal - Abnormal	Response Steps
		Baghouse Inspections	Quarterly		
DC1 through DC14 DC21 and DC22 DC25 through DC27 DC29 DC34 through DC36 DC39 through DC46 DC51 DC55 and DC56 DC59 DC62 and DC63 DC69 through DC72 DC76 DC79 through DC98 DC101 through DC103 DC107 and DC108 DC112 through DC117	NA	Baghouse Inspections	Quarterly	Normal - Abnormal	Response Steps
DC64	NA	Pressure Drop Flow Rate	Daily	0.5 - 4.0 inches H ₂ O 2 gal/min	Response Steps

- (b) There are no testing requirements applicable to this source.

Based on the assumed outlet grain loadings and pound per ton emission factors used, each control devices would need to meet a ninety-nine percent (99%) control efficiency to comply with the PSD/NA minor limits.

Conclusion and Recommendation

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant. An application for the purposes of this review was received on October 7, 2011.

The operation of this source shall be subject to the conditions of the attached proposed MSOP No. 043-31016-00050. The staff recommends to the Commissioner that this MSOP be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Jason R. Krawczyk at the Indiana Department Environmental Management, Office of Air Quality, Permits Branch, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5174 or toll free at 1-800-451-6027 extension4-5174.
- (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

SUMMARY OF EMISSIONS

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
Plt ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Uncontrolled / Unlimited Emissions (Tons/Yr)														
Pollutant	Pest Control Heaters	Nat. Gas Boilers No. 1-3	WWTP Flare	External Exhausting Dry Ingredient Dust Collectors *	Internal Exhausting Dry Ingredient Dust Collectors *	Wet Scrubber DC64	General Ventilation Units (Wet Scrubbers)	Videojet Coding Units	Cold Cleaner	Welding	Ammonia Condensers	Cooling Towers (Fugitive)	Roadways (Fugitive)	Total
PM	0.15	0.27	3.45E-04	43.07	36.25	17.37	1.26	-	-	0.02	11.86	0.46	1.95	110.25
PM10	0.59	1.09	1.21E-03	43.07	12.70	17.37	1.26	-	-	0.02	11.86	0.46	0.39	87.96
PM2.5	0.59	1.09	1.21E-03	43.07	12.70	17.37	1.26	-	-	0.02	11.86	0.46	0.10	87.96
VOC	0.42	0.79	1.72E-03	-	-	-	-	0.40	0.07	-	-	-	-	1.68
NOx	7.71	14.32	0.02	-	-	-	-	-	-	-	-	-	-	22.05
SO2	0.05	0.09	2.33E-03	-	-	-	-	-	-	-	-	-	-	0.13
CO	6.48	12.03	0.01	-	-	-	-	-	-	-	-	-	-	18.52
CO2e	9,307	17,292	22	-	-	-	12,528	-	-	-	-	-	-	39,149
Single HAP (Hexane)	0.14	0.26	-	-	-	-	-	0.01	-	-	-	-	-	0.41
Combined HAPs	0.15	0.27	-	-	-	-	-	0.01	-	7.10E-04	-	-	-	0.43

Note:

* The control devices for the dry ingredient dust collectors have been determined to be integral to the process therefore PTE is calculated after the use of the integral control devices.

Controlled / Unlimited Emissions (Tons/Yr)														
Pollutant	Pest Control Heaters	Boilers Nos. 1 - 3	WWTP Flare	External Exhausting Dry Ingredient Dust Collectors	Internal Exhausting Dry Ingredient Dust Collectors	Wet Scrubber DC64	General Ventilation Units (Wet Scrubbers)	Videojet Coding Units	Cold Cleaner	Welding	Ammonia Condensers	Cooling Towers (Fugitive)	Roadways (Fugitive)	Total
PM	0.15	0.27	3.45E-04	43.07	36.25	0.87	0.06	-	-	0.02	11.86	0.46	1.95	92.55
PM10	0.59	1.09	1.21E-03	43.07	12.70	0.87	0.06	-	-	0.02	11.86	0.46	0.39	70.25
PM2.5	0.59	1.09	1.21E-03	43.07	12.70	0.87	0.06	-	-	0.02	11.86	0.46	0.10	70.25
VOC	0.42	0.79	1.72E-03	-	-	-	-	0.40	0.07	-	-	-	-	1.68
NOx	7.71	14.32	0.02	-	-	-	-	-	-	-	-	-	-	22.05
SO2	0.05	0.09	0.00	-	-	-	-	-	-	-	-	-	-	0.13
CO	6.48	12.03	0.01	-	-	-	-	-	-	-	-	-	-	18.52
CO2e	9,307	17,292	22	-	-	-	12,528	-	-	-	-	-	-	39,149
Single HAP (Hexane)	0.14	0.26	-	-	-	-	-	0.01	-	-	-	-	-	0.41
Combined HAPs	0.15	0.27	-	-	-	-	-	0.01	-	7.10E-04	-	-	-	0.43

Appendix A: Emissions Calculations
HVAC / Pest Control Heater Combustion Emissions
Natural Gas

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
PH ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Emission Unit ID
4.50	39.42	HVAC / Pest Control Heater No.1
2.73	23.87	HVAC / Pest Control Heater No.2
2.73	23.87	HVAC / Pest Control Heater No.3
2.00	17.52	Pest Control Heater No.4
2.50	21.90	Pest Control Heater No.5
2.00	17.52	Pest Control Heater No.6
0.75	6.57	Pest Control Heater No.7
0.40	3.50	HVAC / Pest Control Heater No.8
17.60	154.18	

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
	1.9	7.6	7.6	0.6	100	5.5	84
					**see below		
Potential Emission in tons/yr	0.15	0.59	0.59	0.05	7.71	0.42	6.48

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 PM2.5 emission factor is filterable and condensable PM2.5 combined.
 **Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology:

All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutants

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	1.619E-04	9.251E-05	5.782E-03	1.388E-01	2.621E-04

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	3.854E-05	8.480E-05	1.079E-04	2.929E-05	1.619E-04

Combined HAPs: 0.15

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Greenhouse Gasses

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	9,251	0.18	0.17
Summed Potential Emissions in tons/yr	9,251		
CO2e Total in tons/yr	9,307		

Methodology:

The N2O Emission Factor for uncontrolled is 2.2.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emissions Calculations
Boiler (1-3) Combustion Emissions
Natural Gas**

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
Pit ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Heat Input Capacity MMBtu/hr	Potential Throughput MMCF/yr	Emission Unit ID
10.10	88.48	Boiler No. 1
10.10	88.48	Boiler No. 2
12.50	109.50	Boiler No. 3
32.70	286.45	

Emission Factor in lb/MMCF	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx 100 **see below	VOC	CO
Potential Emission in tons/yr	0.27	1.09	1.09	0.09	14.32	0.79	12.03

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
 PM2.5 emission factor is filterable and condensable PM2.5 combined.
 **Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology:
 All emission factors are based on normal firing.
 MMBtu = 1,000,000 Btu
 MMCF = 1,000,000 Cubic Feet of Gas
 Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03
 Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Hazardous Air Pollutants

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene 2.1E-03	Dichlorobenzene 1.2E-03	Formaldehyde 7.5E-02	Hexane 1.8E+00	Toluene 3.4E-03
Potential Emission in tons/yr	3.008E-04	1.719E-04	1.074E-02	2.578E-01	4.870E-04

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead 5.0E-04	Cadmium 1.1E-03	Chromium 1.4E-03	Manganese 3.8E-04	Nickel 2.1E-03
Potential Emission in tons/yr	7.161E-05	1.575E-04	2.005E-04	5.443E-05	3.008E-04

Combined HAPs: 0.27

The five highest organic and metal HAPs emission factors are provided above.
 Additional HAPs emission factors are available in AP-42, Chapter 1.4.

Greenhouse Gasses

Emission Factor in lb/MMcf	Greenhouse Gas		
	CO2 120,000	CH4 2.3	N2O 2.2
Potential Emission in tons/yr	17,187	0.33	0.32
Summed Potential Emissions in tons/yr	17,188		
CO2e Total in tons/yr	17,292		

Methodology:
 The N2O Emission Factor for uncontrolled is 2.2. The N2O Emission Factor for low Nox burner is 0.64.
 Emission Factors are from AP 42, Table 1.4-2 SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03.
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

Appendix A: Emission Calculations
WWTP Flare Combustion Emissions
Liquified Petroleum Gas (LPG)

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
Pit ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Heat Input Capacity	Potential Throughput	Emission Unit	SO2 Emission factor = 0.10 x S
MMBtu/hr	kgals/year	ID	S = Sulfur Content =
0.04	3.45	Boiler No. 4	13.50 grains/100ft ³
0.04	3.45		

Emission Factor in lb/kgal	Pollutant						
	PM*	PM10*	direct PM2.5**	SO2	NOx	VOC	CO
	0.2	0.7	0.7	1.35 (0.10S)	13.0	1.0 **TOC value	7.5
Potential Emission in tons/yr	0.00	0.00	0.00	0.00	0.02	0.00	0.01

*PM emission factor is filterable PM only. PM emissions are stated to be all less than 10 microns in aerodynamic equivalent diameter, footnote in Table 1.5-1, therefore PM10 is based on the filterable and condensable PM emission factors.

** No direct PM2.5 emission factor was given. Direct PM2.5 is a subset of PM10. If one assumes all PM10 to be all direct PM2.5, then a worst case assumption of direct PM2.5 can be made.

**The VOC value given is TOC. The methane emission factor is 0.2 lb/kgal.

Methodology:

1 gallon of LPG has a heating value of 94,000 Btu
 1 gallon of propane has a heating value of 91,500 Btu (use this to convert emission factors to an energy basis for propane)
 (Source - AP-42 (Supplement B 10/96) page 1.5-1)
 Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.0915 MMBtu
 Emission Factors are from AP42 (7/08), Table 1.5-1 (SCC #1-02-010-02)
 Propane Emission Factors shown. Please see AP-42 for butane.
 Emission (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) / 2,000 lb/ton

Greenhouse Gasses

Emission Factor in lb/kgal	Greenhouse Gas		
	CO2	CH4	N2O
	12,500	0.2	0.9
Potential Emission in tons/yr	22	0.00	0.00
Summed Potential Emissions in tons/yr	22		
CO2e Total in tons/yr	22		

Methodology:

The CO2 Emission Factor for Propane is 12500. The CO2 Emission Factor for Butane is 14300.
 Emission Factors are from AP 42 (7/08), Table 1.5-1 (SCC #1-02-010-02)
 Greenhouse Warming Potentials (GWP) from Table A-1 of 40 CFR Part 98 Subpart A.
 Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton
 CO2e (tons/yr) = CO2 Potential Emission ton/yr x CO2 GWP (1) + CH4 Potential Emission ton/yr x CH4 GWP (21) + N2O Potential Emission ton/yr x N2O GWP (310).

**Appendix A: Emission Calculations
Emissions from Externally Exhausting
Dry Ingredient Storage and Conveying Dust Collectors**

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Plt ID: 043-31016-00050
Permit No.: 043-00050
Permit Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Stack ID	Baghouse ID No. *	Outlet Grain Loading (gr/acf)	Control Efficiency (%)	Air Flow Rate (acfm)	Potential to Emit After Consideration of Integral Control		Potential to Emit Before Consideration of Integral Control	
					(lbs/hr)	(tons/yr)	(lbs/hr)	(tons/yr)
68	DC15	0.02000	99%	1125	0.19	0.84	19.29	84.47
67	DC16	0.02000	99%	3001	0.51	2.25	51.45	225.35
66	DC17	0.02000	99%	2498	0.43	1.88	42.83	187.59
69	DC18	0.02000	99%	2800	0.48	2.10	47.99	210.21
56	DC19 / DC20	0.02000	99%	19957	3.42	14.98	342.12	1498.49
71	DC24	0.02000	99%	2101	0.36	1.58	36.01	157.72
48	DC30	0.02000	99%	5205	0.89	3.91	89.23	390.82
167	DC37	0.02000	99%	800	0.14	0.60	13.72	60.08
98a	DC38	0.02000	99%	2811	0.48	2.11	48.18	211.04
98b	DC48	0.02000	99%	1200	0.21	0.90	20.57	90.10
55	DC50	0.02000	99%	1188	0.20	0.89	20.37	89.20
139	DC53	0.02000	99%	1790	0.31	1.34	30.69	134.44
8	DC58	0.02000	99%	796	0.14	0.60	13.64	59.75
137	DC60	0.02000	99%	1808	0.31	1.36	30.99	135.75
61	DC73	0.02000	99%	415	0.07	0.31	7.11	31.16
150	DC74	0.02000	99%	1600	0.27	1.20	27.43	120.14
153	DC77	0.02000	99%	2000	0.34	1.50	34.29	150.17
154	DC78	0.02000	99%	2000	0.34	1.50	34.29	150.17
161	DC109	0.02000	99%	466	0.08	0.35	7.98	34.97
183	DC110	0.02000	99%	2800	0.48	2.10	48.00	210.24
165	DC111	0.02000	99%	1000	0.17	0.75	17.14	75.09
Combined Potential Emissions:					43.07		4306.95	

Note:
* Dust Collectors have been determined to be integral to the process therefore PTE is calculated after the use of the integral control devices.
Assumed PM = PM10 = PM2.5

Methodology:
Potential to Emit After Consideration of Integral Control (lbs/hr) = Loading (grains/acfm) * Air Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr
Potential to Emit After Consideration of Integral Control (tons/yr) = Loading (grains/acfm) * Air Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs
Potential to Emit Before Consideration of Integral Control (lbs/hr) = Potential to Emit After Consideration of Integral Control (lbs/hr) / (1 - Control Efficiency)
Potential to Emit Before Consideration of Integral Control (tons/yr) = Potential to Emit Before Consideration of Integral Control (lbs/hr) * 8,760 hrs * 1 ton/2,000 lbs

Appendix A: Emissions Calculations
Emissions from Internally Exhausting
Dry Ingredient Storage and Conveying Dust Collectors

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
Plt ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Uncontrolled Emission Factor (lbs/ton)*		Control Efficiency
PM	PM10 / PM2.5	PM/PM10/PM2.5
3.14	1.10	99.0%

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

Dust Collector ID	Maximum Ingredient Throughput		Uncontrolled PTE of PM (lbs/hr)	Uncontrolled PTE of PM10/PM2.5 (lbs/hr)	Uncontrolled PTE of PM (tons/yr)	Uncontrolled PTE of PM10/PM2.5 (tons/yr)	Controlled PTE of PM (tons/yr)	Controlled PTE of PM10/PM2.5 (tons/yr)
	(lbs/hr)	(tons/hr)						
DC1	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC2	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC3	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC4	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC5	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC6	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC7	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC8	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC9	25000	12.5	39.25	13.75	171.92	60.23	1.72	0.60
DC10	25000	12.50	39.25	13.75	171.92	60.23	1.72	0.60
DC11	25000	12.50	39.25	13.75	171.92	60.23	1.72	0.60
DC12	25000	12.50	39.25	13.75	171.92	60.23	1.72	0.60
DC13	25000	12.50	39.25	13.75	171.92	60.23	1.72	0.60
DC14	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC21	500	0.25	0.79	0.28	3.44	1.20	0.03	0.01
DC22	500	0.25	0.79	0.28	3.44	1.20	0.03	0.01
DC25	1000	0.50	1.57	0.55	6.88	2.41	0.07	0.02
DC26	1000	0.50	1.57	0.55	6.88	2.41	0.07	0.02
DC27	2000	1.00	3.14	1.10	13.75	4.82	0.14	0.05
DC29	400	0.20	0.63	0.22	2.75	0.96	0.03	0.01
DC34	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC35	7500	3.75	11.78	4.13	51.57	18.07	0.52	0.18
DC36	60000	30.00	94.20	33.00	412.60	144.54	4.13	1.45
DC39	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC40	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC41	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC42	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC43	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC44	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC45	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC46	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC51	750	0.38	1.18	0.41	5.16	1.81	0.05	0.02
DC55	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC56	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC59	2000	1.00	3.14	1.10	13.75	4.82	0.14	0.05
DC62	1000	0.50	1.57	0.55	6.88	2.41	0.07	0.02
DC63	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC69	2000	1.00	3.14	1.10	13.75	4.82	0.14	0.05
DC70	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC72	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC76	2500	1.25	3.93	1.38	17.19	6.02	0.17	0.06
DC79	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC80	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC81	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC82	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC83	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC84	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC85	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC86	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC87	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC88	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC89	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC90	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC91	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC92	5000	2.50	7.85	2.75	34.38	12.05	0.34	0.12
DC93	5000	2.50	7.85	2.75	34.38	12.05	0.34	0.12
DC94	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC95	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC96	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC97	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC98	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC101	1500	0.75	2.36	0.83	10.31	3.61	0.10	0.04
DC102	2000	1.00	3.14	1.10	13.75	4.82	0.14	0.05
DC103	4500	2.25	7.07	2.48	30.94	10.84	0.31	0.11
DC107	5000	2.50	7.85	2.75	34.38	12.05	0.34	0.12
DC108	6000	3.00	9.42	3.30	41.26	14.45	0.41	0.14
DC112	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
DC113	2500	1.25	3.93	1.38	17.19	6.02	0.17	0.06
DC114	2500	1.25	3.93	1.38	17.19	6.02	0.17	0.06
DC115	2000	1.00	3.14	1.10	13.75	4.82	0.14	0.05
DC116	1000	0.50	1.57	0.55	6.88	2.41	0.07	0.02
DC117	3000	1.50	4.71	1.65	20.63	7.23	0.21	0.07
Totals:					3625.00	1269.90	36.25	12.70

Note:

*The uncontrolled potential emissions of particulate from dry ingredient storage and conveying before controls are estimated using AP-42 Table 11.12-2 emission factors for the uncontrolled truck unloading of cement supplement to elevated storage silo (pneumatic). No AP-42 emission factors exist for dry ingredient (including flour) pneumatic conveyance.

Assumed PM10 = PM2.5

Methodology:

Maximum Hourly Throughput (tons/hr) = [Maximum Hourly Throughput (lbs/hr)] / [2000 lbs/ton]
 Uncontrolled PTE of PM or PM10 (lbs/year) = [Maximum Hourly Throughput (tons/hr)] * [Emission Factor (lbs/ton)]
 Uncontrolled PTE of PM or PM10 (tons/year) = [Uncontrolled PTE of PM or PM10 (lbs/year)] * [8760 hours/year] / [2000 lbs/ton]
 Controlled PTE of PM or PM10 (tons/year) = [Uncontrolled PTE of PM or PM10 (tons/year)] * [1 - Control Efficiency]

**Appendix A: Emission Calculations
Wet Scrubber DC64 Emissions**

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Plt ID: 043-31016-00050
Permit No.: 043-00050
Permit Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Baghouse ID No.	Outlet Grain Loading (gr/acf)	Air Flow Rate (acfm)	Control Efficiency (%)	Potential to Emit Before Control (lbs/hr)	Potential to Emit Before Control (tons/yr)	Potential to Emit After Control (lbs/hr)	Potential to Emit After Control (tons/yr)
DC64	0.02000	1157	95.00%	3.97	17.37	0.20	0.87
Potential Emissions:					17.37		0.87

Note:

Assumed PM = PM10 = PM2.5

Methodology:

Potential to Emit Before Control (lbs/hr) = Loading (grains/acfm) * Air Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr

Potential to Emit Before Control (tons/yr) = Loading (grains/acfm) * Air Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8,760 hrs / 2,000 lbs

Potential to Emit After Control (lbs/hr) = Potential to Emit Before Control (lbs/hr) / (1 - Control Efficiency)

Potential to Emit After Control (tons/yr) = Potential to Emit After Control (lbs/hr) * 8,760 hrs / 2,000 lbs

**Appendix A: Emission Calculations
Particulate and CO2e Emissions
From General Ventilation Units**

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Plt ID: 043-31016-00050
Permit No.: 043-00050
Permit Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Particulate Emissions

Stack ID	Scrubber ID No.	Outlet Grain Loading (gr/acf)	Air Flow Rate (acfm)	Control Efficiency	Uncontrolled PTE (lbs/hr) (tons/yr)		Controlled PTE (lbs/hr) (tons/yr)	
52	SB2	0.00023	2000	95.00%	0.08	0.34	0.00	0.02
60	SB3	0.00023	1200	95.00%	0.05	0.20	0.00	0.01
65	SB4	0.00023	3030	95.00%	0.12	0.51	0.01	0.03
70	SB5	0.00023	1253	95.00%	0.05	0.21	0.00	0.01
Combined Potential Emissions:						1.26		0.06

Note:

Assumed PM = PM10 = PM2.5

Methodology:

Uncontrolled Potential to Emit (tons/yr) = Loading (grains/acfm) * Air Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs * 1/(1-Control Efficiency)
 Controlled Emissions (tons/yr) = Loading (grains/acfm) * Air Flow Rate (acfm) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs

CO2e Emissions

Actual CO2 purchased in Fiscal Year 2011 (June 2010 - May 2011) was 17,897,364 lbs. The source estimates that CO2 purchases for operating 8,760 hrs/yr would be approximately 40% higher, or 25,056,310 lbs (12,528 tons/yr).

**Appendix A: Emission Calculations
VOC & HAP Emissions
From Inkjet Printers**

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Plt ID: 043-31016-00050
Permit No.: 043-00050
Permit Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Inkjet Printers Solvent/Ink Usage (VOC)

Material	Density (lb/gal)	Annual Usage (gal)	VOC Content (lbs/gal)	Potential VOC Emissions		
				(lb/hr)	(lb/day)	(tons/yr)
16-4530 Ink	6.67	92.65	1.67	1.76E-02	4.23E-01	7.73E-02
V710-D Make-Up Fluid	6.57	71.60	2.63	2.15E-02	0.52	0.09
V469-D Ink	7.22	50.54	4.26	0.02	0.59	0.11
V904-Q Cleaning Solution	6.55	12.63	1.96	2.83E-03	0.07	0.01
16-4525 Make-Up Fluid	6.51	324.29	0.65	0.02	0.58	0.11
				0.09	2.18	0.40

Notes:

Annual 2010 usage information provided by source and extrapolated out to 8,760 hours of operation.
VOC Contents obtained from product MSDS sheets.

Methodology:

Potential VOC Emissions (tons/yr) = Annual Usage (gal) * VOC Content (lbs/gal) * 1 ton / 2,000 lbs
Potential VOC Emissions (lb/hr) = Annual Usage (gal) * VOC Content (lbs/gal) * 1 yr / 8760 hrs
Potential VOC Emissions (lb/day) = Potential VOC (lb/hr) * 24

Inkjet Printers Solvent/Ink Usage (HAP)

Material	Density (lb/gal)	Annual Usage (gal)	Chromium III Content (lbs/gal)	Potential Chromium III Emissions (tons/yr)
V469-D Ink	7.22	50.54	0.48	0.01
				0.01

Notes:

Annual 2010 usage information provided by source and extrapolated out to 8,760 hours of operation.
HAP Contents obtained from product MSDS sheets.

Methodology:

Potential HAP Emissions (tons/yr) = Annual Usage (gal) * HAP Content (lbs/gal) * 1 ton / 2,000 lbs

**Appendix A: Emission Calculations
VOC Emissions
From Safety Kleen Cold Cleaning Degreaser No. 87**

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Plt ID: 043-31016-00050
Permit No.: 043-00050
Permit Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Safety Kleen Cold Cleaning Degreaser

Material	Unit ID	Density (lb/gal)	Daily Solvent Usage (gal)	Annual Solvent Usage (gal)	Weight % Volatile (H2O & Organics)	Weight % Water	Weight % Organics	Volume % Water	Volume % Non Volatiles (Solids)	Potential VOC (lb/hr)	Potential VOC (lb/day)	Potential VOC (tons/yr)
Safety Kleen	No. 87	6.50	0.056	20.40	100.00%	0.00%	100.00%	0.00%	0.00%	0.02	0.36	0.07

Notes:

Daily Solvent Usage provided by source in MSOP 043-10995-00050

Methodology:

Potential VOC (lb/hr) = Annual Emissions x Density / 8760 hrs/yr

Potential VOC (lb/day) = Potential VOC (lb/hr) * 24

Potential VOC (tons/yr) = Annual Emissions * Density / 2000lbs

Appendix A: Emissions Calculations
Welding and Thermal Cutting

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
Pit ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)	EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)				HAPS (lbs/hr)
			PM = PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr	
WELDING											
Stick (E7018 electrode)	6	0.03	0.0211	0.0009			0.004	0.000	0.000	0	0.000
EMISSION TOTALS											
Potential Emissions lbs/hr							0.00				0.00
Potential Emissions lbs/day							0.09				0.00
Potential Emissions tons/year							0.02				0.00

Methodology:

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.
Welding emissions, lb/hr: (# of stations)(max. lbs of electrode used/hr/station)(emission factor, lb. pollutant/lb. of electrode used)
Emissions, lbs/day = emissions, lbs/hr x 24 hrs/day
Emissions, tons/yr = emissions, lb/hr x 8,760 hrs/year x 1 ton/2,000 lbs

**Appendix A: Emission Calculations
Ammonia Condenser Emissions**

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
Pit ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Emission Unit	Circulation Rate (gal/hr)	Total Liquid Drift (%)	Total Dissolved Solids (ppm)	PM / PM10 / PM2.5 Emissions	
				(lb/hr)	(ton/yr)
CO2	600	0.02%	2,080	0.12	0.55
CO4	1200	0.02%	2,290	0.28	1.21
CO5	1200	0.02%	2,290	0.28	1.21
CO6	1200	0.02%	2,290	0.28	1.21
CO7	1200	0.02%	2,290	0.28	1.21
CO8	1200	0.02%	2,290	0.28	1.21
CO9	300	0.02%	1,740	0.05	0.23
CO11	350	0.02%	1,740	0.06	0.27
CO12	350	0.02%	1,740	0.06	0.27
CO17	1700	0.02%	1,760	0.30	1.31
CO18	350	0.02%	636	0.02	0.10
CO19	350	0.02%	636	0.02	0.10
CO23	1200	0.02%	2,290	0.28	1.21
CO24	600	0.02%	2,290	0.14	0.60
CO25	600	0.02%	2,290	0.14	0.60
CO26	600	0.02%	2,290	0.14	0.60
Total:				2.71	11.86

Note:

Assume PM = PM10 = PM2.5

Methodology:

Emissions (lb/hr) = Circulation Rate (gal/hr) * Total Liquid Drift (%) * Total Dissolved Solids (ppm) * 60min/hr * 8.345 lb/gal * 1 / 1,000,000

Emissions (tons/yr) = Emissions (lb/hr) * 8,760 hours * 1 ton / 2,000 lbs

**Appendix A: Emission Calculations
Cooling Tower Emissions**

Company Name: General Mills
Address City IN Zip: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
Plt ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Emission Unit	Circulation Rate (gal/hr)	Total Liquid Drift (%)	Total Dissolved Solids (ppm)	PM / PM10 / PM2.5 Emissions	
				(lb/hr)	(ton/yr)
CT8	250	0.02%	2,080	0.05	0.23
CT9	250	0.02%	2,080	0.05	0.23
Total:				0.10	0.46

Note:
 Assume PM = PM10 = PM2.5

Methodology:
 Emissions (lb/hr) = Circulation Rate (gal/hr) * Total Liquid Drift (%) * Total Dissolved Solids (ppm) * 60min/hr * 8.345 lb/gal * 1/ 1,000,000
 Emissions (tons/yr) = Emissions (lb/hr) * 8,760 hours * 1 ton / 2,000 lbs

**Appendix A: Emission Calculations
Fugitive Dust Emissions - Paved Roads**

Company Name: General Mills
Source Address: 707 Pillsbury Lane, New Albany, IN 47150
Permit Number: 043-31016-00050
Source ID: 043-00050
Reviewer: Jason R. Krawczyk
Date: January 10, 2012

Paved Roads at Industrial Site

The following calculations determine the amount of emissions created by paved roads, based on 8,760 hours of use and AP-42, Ch 13.2.1 (1/2011).

Vehicle Information (provided by source)

Type	Maximum number of vehicles per day	Number of one-way trips per day per vehicle	Maximum trips per day (trip/day)	Maximum Weight Loaded (tons/trip)	Total Weight driven per day (ton/day)	Maximum one-way distance (feet/trip)	Maximum one-way distance (mi/trip)	Maximum one-way miles (miles/day)	Maximum one-way miles (miles/yr)
Delivery Truck	100.0	1.0	100.0	20.0	2000.0	1320	0.250	25.0	9125.0
Delivery Truck	100.0	1.0	100.0	40.0	4000.0	1320	0.250	25.0	9125.0
Plant Vehicles	10.0	1.0	10.0	5.0	50.0	2640	0.500	5.0	1825.0
Total			210.0		6050.0			55.0	20075.0

Average Vehicle Weight Per Trip = $\frac{28.8}{1}$ tons/trip
 Average Miles Per Trip = $\frac{0.26}{1}$ miles/trip

Unmitigated Emission Factor, $E_f = [k * (sL)^{0.91} * (W)^{1.02}]$ (Equation 1 from AP-42 13.2.1)

	PM	PM10	PM2.5	
where k =	0.011	0.0022	0.00054	lb/VMT = particle size multiplier (AP-42 Table 13.2.1-1)
W =	28.8	28.8	28.8	tons = average vehicle weight (provided by source)
sL =	0.6	0.6	0.6	g/m ² = mean silt loading for iron and steel production facilities (AP-42 Table 13.2.1-3)

Taking natural mitigation due to precipitation into consideration, Mitigated Emission Factor, $E_{ext} = E * [1 - (p/4N)]$ (Equation 2 from AP-42 13.2.1)

Mitigated Emission Factor, $E_{ext} = E_f * [1 - (p/4N)]$

where p = $\frac{125}{365}$ days of rain greater than or equal to 0.01 inches (see Fig. 13.2.1-2)
 N = 365 days per year

	PM	PM10	PM2.5	
Unmitigated Emission Factor, $E_f =$	0.213	0.043	0.0105	lb/mile
Mitigated Emission Factor, $E_{ext} =$	0.195	0.039	0.0096	lb/mile

Process	Unmitigated PTE of PM (tons/yr)	Unmitigated PTE of PM10 (tons/yr)	Unmitigated PTE of PM2.5 (tons/yr)	Mitigated PTE of PM (tons/yr)	Mitigated PTE of PM10 (tons/yr)	Mitigated PTE of PM2.5 (tons/yr)
Delivery Truck	0.97	0.19	0.05	0.89	0.18	0.04
Delivery Truck	0.97	0.19	0.05	0.89	0.18	0.04
Plant Vehicles	0.19	0.04	0.01	0.18	0.04	0.01
	2.14	0.43	0.10	1.95	0.39	0.10

Methodology

Total Weight driven per day (ton/day) = [Maximum Weight Loaded (tons/trip)] * [Maximum trips per day (trip/day)]
 Maximum one-way distance (mi/trip) = [Maximum one-way distance (feet/trip)] / [5280 ft/mile]
 Maximum one-way miles (miles/day) = [Maximum trips per year (trip/day)] * [Maximum one-way distance (mi/trip)]
 Average Vehicle Weight Per Trip (ton/trip) = SUM[Total Weight driven per day (ton/day)] / SUM[Maximum trips per day (trip/day)]
 Average Miles Per Trip (miles/trip) = SUM[Maximum one-way miles (miles/day)] / SUM[Maximum trips per year (trip/day)]
 Unmitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Unmitigated Emission Factor (lb/mile)] * (ton/2000 lbs)
 Mitigated PTE (tons/yr) = [Maximum one-way miles (miles/yr)] * [Mitigated Emission Factor (lb/mile)] * (ton/2000 lbs)

Abbreviations

PM = Particulate Matter
 PM10 = Particulate Matter (<10 um)
 PM2.5 = Particle Matter (<2.5 um)
 PTE = Potential to Emit



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

SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: Theodore Iverson
General Mills
707 Pillsbury Lane
New Albany, IN 47150-2238

DATE: March 14, 2012

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

SUBJECT: Final Decision
Minor Source Operating Permit (MSOP)
043-31016-00050

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



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March 14, 2012

TO: New Albany Floyd Co. Public Library

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

Subject: **Important Information for Display Regarding a Final Determination**

Applicant Name: General Mills
Permit Number: 043-31016-00050

You previously received information to make available to the public during the public comment period of a draft permit. Enclosed is a copy of the final decision and supporting materials for the same project. Please place the enclosed information along with the information you previously received. To ensure that your patrons have ample opportunity to review the enclosed permit, **we ask that you retain this document for at least 60 days.**

The applicant is responsible for placing a copy of the application in your library. If the permit application is not on file, or if you have any questions concerning this public review process, please contact Joanne Smiddie-Brush, OAQ Permits Administration Section at 1-800-451-6027, extension 3-0185.

Enclosures
Final Library.dot 11/30/07

Mail Code 61-53

IDEM Staff	PWAY 3/14/2012 General Mills 043-31016-00050 (final)		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	Type of Mail: CERTIFICATE OF MAILING ONLY	

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		Theodore Iverson General Mills 707 Pillsbury Ln New Albany IN 47150-2238 (Source CAATS)										
2		John Cervenak Plant Mgr General Mills 707 Pillsbury Ln New Albany IN 47150-2238 (RO CAATS)										
3		Mr. Robert Bottom Paddlewheel Alliance P.O. Box 35531 Louisville KY 40232-5531 (Affected Party)										
4		Floyd County Commissioners 311-319 West 1st St, Rm 214 New Albany IN 47150 (Local Official)										
5		New Albany City Council and Mayors Office City County Building #316 New Albany IN 47150 (Local Official)										
6		New Albany Floyd Co Public Library 180 W Spring St New Albany IN 47150-3692 (Library)										
7		Floyd County Health Department 1917 Bono Rd New Albany IN 47150-4607 (Health Department)										
8		Ms. Sue Green 1985 Kopley Road Georgetown IN 47122 (Affected Party)										
9												
10												
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