



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: July 6, 2009

RE: Nestle USA, Inc. / 095-27579-00129

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

Notice of Decision: Approval - Effective Immediately

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

If you wish to challenge this decision, IC 4-21.5-3-7 and IC 13-15-7-3 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office Environmental Adjudication, 100 North Senate Avenue, Government Center North, Suite N 501E, Indianapolis, IN 46204, **within eighteen (18) 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-MOD.dot 12/3/07



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New Source Construction and Federally Enforceable State Operating Permit OFFICE OF AIR QUALITY

Nestle USA, Inc.
4300 West 73rd Street
Anderson, Indiana 46013

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

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

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

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 FESOP under 326 IAC 2-8.

Operation Permit No.: F095-23798-00129	
Original document signed by: Nisha Sizemore, Chief Permits Branch Office of Air Quality	Issuance Date: March 6, 2007 Expiration Date: March 6, 2012

First Significant Permit Modification No.: 095-27579-00129	
Issued by:  Alfred C. Dumauval, Ph.D, Section Chief Permits Branch Office of Air Quality	Issuance Date: July 6, 2009 Expiration Date: March 6, 2012

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SECTION A

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

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary food processing and bottling plant.

Source Address:	4301 West 73rd Street, Anderson, Indiana 46013
Mailing Address:	4301 West 73rd Street, Anderson, Indiana 46013
General Source Phone Number:	(765) 778-6019
SIC Code:	2026, 2023, 3085
County Location:	Madison
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State 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 [326 IAC 2-8-3(c)(3)]

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

Nesquik Liquid and Coffeemate Liquid Production:

- (a) Two (2) pneumatic conveyance systems for transporting sugar from railcars to storage silos, identified as EU-1a and EU-1b, approved for construction in 2007, with a combined maximum throughput capacity of 66,000 pounds per hour, with emissions from each conveyance system controlled by an integral cyclone/filter (107a and 107b) and an integral vent filter (122a and 122b), respectively, with emissions exhausting inside the building.
- (b) Four (4) storage silos for storing sugar, identified as EU-2a through EU-2d, approved for construction in 2007, with a maximum combined storage capacity of 800 tons and a combined maximum throughput capacity of 66,000 pounds per hour, with emissions controlled by integral bag filters (211a and 211b) and integral vent filters (409a and 409b). 211a and 211b exhaust to stacks V211a and V211b, and 409a and 409b exhaust inside the building.
- (c) One (1) pneumatic conveyance system for transporting sugar from storage silos to the sugar dissolving operation, identified as EU-3, approved for construction in 2007, with a maximum throughput capacity of 66,000 pounds per hour, with emissions controlled by an integral bag filter (511), and exhausting inside the building.
- (d) One (1) cocoa dumping station, identified as EU-4, approved for construction in 2007, with a maximum throughput capacity of 6,000 pounds per hour, with emissions controlled by an integral bag filter (708), and exhausting inside the building.
- (e) One (1) pneumatic conveyance system for transporting cocoa from the cocoa dumping station to the cocoa dissolving operation, identified as EU-5, approved for construction in 2007, with a maximum throughput capacity of 8,820 pounds per hour, with emissions controlled by an integral bag filter (723), and exhausting inside the building.

- (f) Six (6) minor ingredients dumping stations, identified as EU-6a through EU-6f, approved for construction in 2007, with a combined maximum throughput capacity of 19,800 pounds per hour, with emissions on each conveyance system controlled by an integral bag filter (1202a through 1202f, respectively), and exhausting inside the building.
- (g) Six (6) major ingredients receiving for transporting major ingredients from the dumping stations to a homogenization operation, identified as EU-8a through EU-8f, approved for construction in 2007, with a combined maximum throughput capacity of 60,000 pounds per hour, with emissions from each conveyance system controlled by an integral bag filter (1304a through 1304f, respectively), and exhausting to stacks V1304a through V1304f, respectively.
- (h) One (1) completely enclosed hydraulic transfer system for transporting vegetable oil from tankcars to vegetable oil storage tanks and then to the CML mixing, identified as VegOilTransfer, approved for construction in 2007, with a maximum throughput capacity of 6,500 pounds per hour, with uncontrolled emissions exhausting inside the building.

Boost Production:

- (i) One (1) Tapioca Dextrin & Fructose Transfer Station, identified as EU-16, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#101 for particulate control, and exhausting inside the building.
- (j) One (1) Soya Cyclone and Hopper, identified as EU-17, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#1309 for particulate control, and exhausting inside the building.
- (k) Major Ingredients Cyclones and Silos, identified as EU-18, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#309 for particulate control, and exhausting inside the building.
- (l) One (1) Big Bag Filling Station, identified as EU-19, approved for construction in 2009, with a maximum capacity of 13,244 pounds per hour, using an integral fabric filter identified as Filter#607 for particulate control, and exhausting inside the building.
- (m) Weighing Hoppers before Scanima, identified as EU-20, approved for construction in 2009, with a maximum capacity of 1,125 pounds per hour, using an integral fabric filter identified as Filter#814 for particulate control, and exhausting inside the building.
- (n) Micro & Macro Ingredients Transfer Station, identified as EU-21, approved for construction in 2009, with a maximum capacity of 250 pounds per hour, using an integral fabric filter identified as Filter#1601 for particulate control, and exhausting inside the building.
- (o) Pre-weight Dumping Station, identified as EU-22, approved for construction in 2009, with a maximum capacity of 20 pounds per hour, using an integral fabric filter identified as Filter#1701 for particulate control, and exhausting inside the building.
- (p) Cocoa Dumping Station, identified as EU-23, approved for construction in 2009, with a maximum capacity of 8,816 pounds per hour, using an integral fabric filter identified as Filter#1801 for particulate control, and exhausting inside the building.

Container Production and Filling:

- (q) One (1) pneumatic conveyance system for transporting polyethylene terephthalate resin pellets (PET) from railcars to two (2) storage silos, identified as EU-9, approved for

- construction in 2007, with a maximum throughput capacity of 33,000 pounds per hour, with emissions controlled by an integral bag filter (1407) and an integral vent filter (1507), with emissions exhausting inside the building.
- (r) Two (2) storage silos for storing polyethylene terephthalate resin pellets (PET), identified as EU-10a and EU-10b, approved for construction in 2007, each with a maximum storage capacity of 200 tons, with a combined maximum throughput capacity of 33,000 pounds per hour, each with emissions controlled by an integral cyclone/filter (1515), and exhausting inside the building.
 - (s) Four (4) PET drying hopper operations, identified as EU-11a through EU-11d, approved for construction in 2007, with a combined maximum throughput capacity of 10,666 pounds per hour, using electric heaters, with emissions from each hopper controlled by integral cyclone and bag filters (11a through 11d, respectively), and exhausting inside the building.
 - (t) One (1) container preforming operation, identified as EU-12, approved for construction in 2007, with a maximum throughput capacity of 10,666 pounds of resin per hour, using electric heaters, with uncontrolled emissions exhausting inside the building.
 - (u) One (1) container blowmolding operation, identified as EU-13, approved for construction in 2007, with a maximum throughput capacity of 10,666 pounds of resin per hour, using electric heaters, using compressed air as blowing agent, with uncontrolled emissions exhausting inside the building.
 - (v) Six (6) container sterilization and filling facilities, identified as EU-14a through EU-14f, approved for construction in 2007, with a combined maximum throughput capacity of 10,666 pounds of plastic containers per hour, using a VOC/oxidizer rinse to sanitize containers prior to filling, with emissions from each sterilization and filling facility controlled by a wet scrubber (F1a through F1f, respectively), and exhausting to stacks VF1a through VF1f, respectively.
 - (w) One (1) PET scrap grinding and transfer operation, identified as EU-15a and EU-15b, approved for construction in 2007, with a maximum grinding capacity of 2,000 pounds of plastic scrap per hour, with emissions controlled by integral cyclone/bag filters (2000a and 2000c and 2000d) and deduster (2000b), and exhausting inside the building.
 - (x) Two (2) container sterilization and filling facilities, identified as EU28a and EU28b, approved for construction in 2009, with a combined maximum throughput capacity of 43,200 bottles per hour, using a VOC/oxidizer rinse to sanitize containers prior to filling, with emissions from each sterilization and filling facility controlled by a wet scrubber (F1g and F1h, respectively), and exhausting to stacks VF1g and VF1h, respectively.
 - (y) Polyshield Drying, identified as EU-24, approved for construction in 2009, with a maximum capacity of 110 pounds per hour, using fabric filter identified as Filter#24 for particulate control, and exhausting inside the building.
 - (z) MXD6/BB10 Drying, identified as EU-25, approved for construction in 2009, with a maximum capacity of 66 pounds per hour, using fabric filter identified as Filter#25, for particulate control, and exhausting inside the building.
 - (aa) One (1) container preform operation, identified as EU-26, approved for construction in 2009, with a maximum capacity of 44,800 preforms per hour, uncontrolled and exhausting inside the building.
 - (bb) One (1) container blowmolding operation, identified as EU-27, approved for construction in 2009, with a maximum capacity of 1,975 pounds per hour, uncontrolled and exhausting inside the building.

Boilers:

- (cc) Two (2) natural gas-fired boilers, identified as Boiler1 and Boiler2, approved for construction in 2007, each with a maximum heat input capacity of 99 MMBtu per hour, each equipped with ultra low-NOx burners (9 ppm NOx) and using flue gas recirculation for NOx control, with emissions exhausting to stacks VBoiler1 and VBoiler2, respectively. Under 40 CFR 60, Subpart Dc, Boiler1 and Boiler2 are considered to be Small Industrial-Commercial-Institutional Steam Generating Units.
- (dd) One (1) natural gas-fired boiler, identified as Boiler3, approved for construction in 2007, with a maximum heat input capacity of 11.8 MMBtu per hour, equipped with low-NOx burners for NOx control, with emissions exhausting to stack VBoiler3. Under 40 CFR 60, Subpart Dc, Boiler3 is considered to be a Small Industrial-Commercial-Institutional Steam Generating Unit.
- (ee) One (1) natural gas-fired boiler, identified as Boiler4, approved for construction in 2009, with a maximum heat input capacity of 99 MMBtu per hour, equipped with ultra low-NOx burners (9ppm NOx) and using flue gas recirculation for NOx control, with emissions exhausting to stack VBoiler4. Under 40 CFR 60, Subpart Dc, Boiler4 is considered to be a small industrial-commercial-institutional steam generating unit.

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million BTU per hour, consisting of seventy-nine (79) space heaters and HVAC units with a combined heat input capacity of 60.5 MMBtu per hour.
- (b) VOC and HAP storage containers storing lubricating oils, hydraulic oils, machining oils, or machining fluids.
- (c) Closed loop heating and cooling systems.
- (d) Activities associated with the treatment of wastewater streams.
- (e) Noncontact cooling tower systems, consisting of natural draft cooling towers not regulated under a NESHAP.
- (f) Replacement or repair of electrostatic precipitators, bags in baghouses, and filters in other air filtration equipment.
- (g) Heat exchanger cleaning and repair.
- (h) Process vessel degassing and cleaning to prepare for internal repairs.
- (i) Paved roads and parking lots with public access.
- (j) Blowdown for the following: sight glass, boiler, cooling tower, compressors and/or pumps.
- (k) Emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower, consisting of three (3) diesel-fueled generators, identified as Gen1, Gen2, and Gen3, approved for construction in 2007, each rated at 750 brake horsepower, each with a displacement of 14.9 liters, with emissions uncontrolled and exhausting to stacks VGen1, VGen2, and VGen3. Under 40 CFR 60, Subpart IIII, Gen1, Gen2, and Gen3 are considered to be stationary compression ignition internal combustion engines (CI ICE).
- (l) An emergency fire pump engine, consisting of one (1) diesel-fueled pump engine,

identified as Pump1, approved for construction in 2007, rated at 183 horsepower, with a displacement of 6.8 liters, with emissions uncontrolled and exhausting to stack VPump1. Under 40 CFR 60, Subpart IIII, Pump1 is considered to be a stationary compression ignition internal combustion engine (CI ICE).

- (m) Emissions from three (3) laboratories, as defined in 326 IAC 2-7-1(21)(D).
- (n) Emissions from research and development activities as defined in 326 IAC 2-7-1(21)(E).
- (o) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour, consisting of three (3) space heaters and HVAC units with a combined heat input capacity of 7.50 MMBtu per hour.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 Definitions [326 IAC 2-8-1]

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

B.2 Revocation of Permits [326 IAC 2-1.1-9(5)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this permit if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

B.3 Affidavit of Construction [326 IAC 2-5.1-3(h)] [326 IAC 2-5.1-4][326 IAC 2-8]

This document shall also become the approval to operate pursuant to 326 IAC 2-5.1-4 and [326 IAC 2-8] when prior to the start of operation, the following requirements are met:

- (a) The attached Affidavit of Construction shall be submitted to the Office of Air Quality (OAQ), verifying that the emission units were constructed as proposed in the application or the permit. The emission units covered in this permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM if constructed as proposed.
- (b) If actual construction of the emission units differs from the construction proposed in the application, the source may not begin operation until the permit has been revised pursuant to 326 IAC 2 and an Operation Permit Validation Letter is issued.
- (c) The Permittee shall attach the Operation Permit Validation Letter received from the Office of Air Quality (OAQ) to this permit.

B.4 Permit Term [326 IAC 2-8-4(2)][326 IAC 2-1.1-9.5][IC 13-15-3-6(a)]

- (a) This permit, F095-23798-00129, 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.5 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.6 Enforceability [326 IAC 2-8-6]

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.7 Severability [326 IAC 2-8-4(4)]

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.8 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

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

B.9 Duty to Provide Information [326 IAC 2-8-4(5)(E)]

- (a) The Permittee shall furnish to IDEM, OAQ within a reasonable time, any information that IDEM, OAQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1). 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.10 Certification [326 IAC 2-8-3(d)][326 IAC 2-8-4(3)(C)(i)][326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an "authorized individual" of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification. One (1) certification may cover multiple forms in one (1) submittal.
- (c) An "authorized individual" is defined at 326 IAC 2-1.1-1(1).

B.11 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

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

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

- (c) The annual compliance certification report shall include the following:
- (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM, OAQ may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.12 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)][326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days after issuance of this permit, including the following information on each facility:
- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

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

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

The PMP extension notification does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A copy of the PMPs shall be submitted to IDEM, OAQ upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMPs do not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (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.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section), or
Telephone Number: 317-233-0178 (ask for Compliance Section)
Facsimile Number: 317-233-6865

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

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

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

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

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

The notification which shall be submitted by the Permittee does not require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) The Permittee seeking to establish the occurrence of an emergency shall make records available upon request to ensure that failure to implement a PMP did not cause or contribute to an exceedance of any limitations on emissions. However, IDEM, OAQ may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
- (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
- (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.
- Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.
- (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

B.15 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of permits established prior to F095-23798-00129 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.16 Termination of Right to Operate [326 IAC 2-8-9][326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.17 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

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

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

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

B.18 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)][326 IAC 2-8-7(a)][326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Federally Enforceable State Operating Permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:

- (1) That this permit contains a material mistake.
- (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
- (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

- (c) Proceedings by IDEM, OAQ to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.19 Permit Renewal [326 IAC 2-8-3(h)]

- (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 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by 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 nine (9) months prior to the date of the expiration of this permit; and
 - (2) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (c) If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ any additional information identified as being needed to process the application.

B.20 Permit Amendment or Revision [326 IAC 2-8-10][326 IAC 2-8-11.1]

- (a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.
- (b) Any application requesting an amendment or modification of this permit shall be submitted to:
- Indiana Department of Environmental Management
Permit Administration and Support Section, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- Any such application shall be certified by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.21 Operational Flexibility [326 IAC 2-8-15][326 IAC 2-8-11.1]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d) without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the limitations provided in this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

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

and

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

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

- (5) The Permittee maintains records on-site, on a rolling five (5) year basis, which document all such changes and emission trades that are subject to 326 IAC 2-8-15(b) through (d). The Permittee shall make such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ in the notices specified in 326 IAC 2-8-15(b)(2), (c)(1), and (d).

- (b) **Emission Trades [326 IAC 2-8-15(c)]**
The Permittee may trade emissions increases and decreases at the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (c) **Alternative Operating Scenarios [326 IAC 2-8-15(d)]**
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ, or U.S. EPA is required.
- (d) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.22 Source Modification Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.23 Inspection and Entry [326 IAC 2-8-5(a)(2)][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 FESOP 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.24 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 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 the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

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

B.26 Credible Evidence [326 IAC 2-8-4(3)][326 IAC 2-8-5][62 FR 8314] [326 IAC 1-1-6]

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

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-8-4(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 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

- (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-3 (Emission Offset) not applicable;
- (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
- (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) The potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD) not applicable.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.3 Opacity [326 IAC 5-1]

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

- (a) Opacity shall not exceed an average of 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 or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

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. The

notifications do not require a certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-1, emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Demolition and Renovation**
The Permittee shall thoroughly inspect the affected facility or part of the facility where the demolition or renovation will occur for the presence of asbestos pursuant to 40 CFR 61.145(a).
- (g) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos.

Testing Requirements [326 IAC 2-8-4(3)]

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

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

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

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (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 2-8-4][326 IAC 2-8-5(a)(1)]

C.10 Compliance Monitoring [326 IAC 2-8-4(3)][326 IAC 2-8-5(a)(1)]

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

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

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

The notification which shall be submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

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

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

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

C.12 Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)][326 IAC 2-8-5(1)]

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

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

Corrective Actions and Response Steps [326 IAC 2-8-4][326 IAC 2-8-5(a)(1)]

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68]

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

C.14 Response to Excursions or Exceedances [326 IAC 2-8-4] [326 IAC 2-8-5]

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

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

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4][326 IAC 2-8-5]

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

The response action documents submitted pursuant to this condition do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.16 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (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, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.17 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The Permittee shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance and Enforcement Branch, Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years, unless otherwise specified in this permit. For the purpose of this permit "calendar year" means the twelve (12) month period from January 1 to December 31 inclusive.
- (f) The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ. The general public may request this information from the IDEM, OAQ under 326 IAC 17.1.

Stratospheric Ozone Protection

C.18 Compliance with 40 CFR 82 and 326 IAC 22-1

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

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

SECTION D.1 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Nesquik Liquid and Coffeemate Liquid Production and Boost Production

- (a) Two (2) pneumatic conveyance systems for transporting sugar from railcars to storage silos, identified as EU-1a and EU-1b, approved for construction in 2007, with a combined maximum throughput capacity of 66,000 pounds per hour, with emissions from each conveyance system controlled by an integral cyclone/filter (107a and 107b) and an integral vent filter (122a and 122b), respectively, with emissions exhausting inside the building.
- (b) Four (4) storage silos for storing sugar, identified as EU-2a through EU-2d, approved for construction in 2007, with a maximum combined storage capacity of 800 tons and a combined maximum throughput capacity of 66,000 pounds per hour, with emissions controlled by integral bag filters (211a and 211b) and integral vent filters (409a and 409b). 211a and 211b exhaust to stacks V211a and V211b, and 409a and 409b exhaust inside the building.
- (c) One (1) pneumatic conveyance system for transporting sugar from storage silos to the sugar dissolving operation, identified as EU-3, approved for construction in 2007, with a maximum throughput capacity of 66,000 pounds per hour, with emissions controlled by an integral bag filter (511), and exhausting inside the building.
- (d) One (1) cocoa dumping station, identified as EU-4, approved for construction in 2007, with a maximum throughput capacity of 6,000 pounds per hour, with emissions controlled by an integral bag filter (708), and exhausting inside the building.
- (e) One (1) pneumatic conveyance system for transporting cocoa from the cocoa dumping station to the cocoa dissolving operation, identified as EU-5, approved for construction in 2007, with a maximum throughput capacity of 8,820 pounds per hour, with emissions controlled by an integral bag filter (723), and exhausting inside the building.
- (f) Six (6) minor ingredients dumping stations, identified as EU-6a through EU-6f, approved for construction in 2007, with a combined maximum throughput capacity of 19,800 pounds per hour, with emissions on each conveyance system controlled by an integral bag filter (1202a through 1202f, respectively), and exhausting inside the building.
- (g) Six (6) major ingredients receiving for transporting major ingredients from the dumping stations to a homogenization operation, identified as EU-8a through EU-8f, approved for construction in 2007, with a combined maximum throughput capacity of 60,000 pounds per hour, with emissions from each conveyance system controlled by an integral bag filter (1304a through 1304f, respectively), and exhausting to stacks V1304a through V1304f, respectively.
- (h) One (1) completely enclosed hydraulic transfer system for transporting vegetable oil from tankcars to vegetable oil storage tanks and then to the CML mixing, identified as VegOilTransfer, approved for construction in 2007, with a maximum throughput capacity of 6,500 pounds per hour, with uncontrolled emissions exhausting inside the building.
- (i) One (1) Tapioca Dextrin & Fructose Transfer Station, identified as EU-16, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using fabric filter identified as Filter#101 for particulate control, and exhausting inside the building.
- (j) One (1) Soya Cyclone and Hopper, identified as EU-17, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using fabric filter identified as Filter#1309 for particulate control, and exhausting inside the building.

- (k) Major Ingredients Cyclones and Silos, identified as EU-18, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using fabric filter identified as Filter#309 for particulate control, and exhausting inside the building.
- (l) One (1) Big Bag Filling Station, identified as EU-19, approved for construction in 2009, with a maximum capacity of 13,244 pounds per hour, using fabric filter identified as Filter#607 for particulate control, and exhausting inside the building.
- (m) Weighing Hoppers before Scanima, identified as EU-20, approved for construction in 2009, with a maximum capacity of 1,125 pounds per hour, using fabric filter identified as Filter#814 for particulate control, and exhausting inside the building.
- (n) Micro & Macro Ingredients Transfer Station, identified as EU-21, approved for construction in 2009, with a maximum capacity of 250 pounds per hour, using fabric filter identified as Filter#1601 for particulate control, and exhausting inside the building.
- (o) Pre-weight Dumping Station, identified as EU-22, approved for construction in 2009, with a maximum capacity of 20 pounds per hour, using fabric filter identified as Filter#1701 for particulate control, and exhausting inside the building.
- (p) Cocoa Dumping Station, identified as EU-23, approved for construction in 2009, with a maximum capacity of 8,816 pounds per hour, using fabric filter identified as Filter#1801 for particulate control, and exhausting inside the building.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.1.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated there under, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

D.1.2 Effective Date of the Permit [IC 13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.1.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Operation Conditions

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.1.5 Particulate Control

- (a) The Permittee shall operate the integral cyclones, vent filters, baghouses, and fabric filters on these facilities (EU-1a, EU-1b, EU-2a, EU-2b, EU-2c, EU-2d, EU-3, EU-4, EU-5, EU-6a through EU-6f, EU-8a through EU-8f, EU-16, EU-17, EU-18, EU-19, EU-20, EU-21, EU-22, EU-23, EU-24 and EU-25) and control emissions from these facilities at all times that these facilities are in operation.

- (b) In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.

SECTION D.2 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Container Production and Filling

- (q) One (1) pneumatic conveyance system for transporting polyethylene terephthalate resin pellets (PET) from railcars to two (2) storage silos, identified as EU-9, approved for construction in 2007, with a maximum throughput capacity of 33,000 pounds per hour, with emissions controlled by an integral bag filter (1407) and an integral vent filter (1507), with emissions exhausting inside the building.
- (r) Two (2) storage silos for storing polyethylene terephthalate resin pellets (PET), identified as EU-10a and EU-10b, approved for construction in 2007, each with a maximum storage capacity of 200 tons, with a combined maximum throughput capacity of 33,000 pounds per hour, each with emissions controlled by an integral cyclone/filter (1515), and exhausting inside the building.
- (s) Four (4) PET drying hopper operations, identified as EU-11a through EU-11d, approved for construction in 2007, with a combined maximum throughput capacity of 10,666 pounds per hour, using electric heaters, with emissions from each hopper controlled by integral cyclone and bag filters (11a through 11d, respectively), and exhausting inside the building.
- (t) One (1) container preforming operation, identified as EU-12, approved for construction in 2007, with a maximum throughput capacity of 10,666 pounds of resin per hour, using electric heaters, with uncontrolled emissions exhausting inside the building.
- (u) One (1) container blowmolding operation, identified as EU-13, approved for construction in 2007, with a maximum throughput capacity of 10,666 pounds of resin per hour, using electric heaters, using compressed air as blowing agent, with uncontrolled emissions exhausting inside the building.
- (v) Six (6) container sterilization and filling facilities, identified as EU-14a through EU-14f, approved for construction in 2007, with a combined maximum throughput capacity of 10,666 pounds of plastic containers per hour, using a VOC/oxidizer rinse to sanitize containers prior to filling, with emissions from each sterilization and filling facility controlled by a wet scrubber (F1a through F1f, respectively), and exhausting to stacks VF1a through VF1f, respectively.
- (w) One (1) PET scrap grinding and transfer operation, identified as EU-15a and EU-15b, approved for construction in 2007, with a maximum grinding capacity of 2,000 pounds of plastic scrap per hour, with emissions controlled by integral cyclone/bag filters (2000a and 2000c and 2000d) and deduster (2000b), and exhausting inside the building.
- (x) Two (2) container sterilization and filling facilities, identified as EU28a and EU28b, approved for construction in 2009, with a combined maximum throughput capacity of 43,200 bottles per hour, using a VOC/oxidizer rinse to sanitize containers prior to filling, with emissions from each sterilization and filling facility controlled by a wet scrubber (F1g and F1h, respectively), and exhausting to stacks VF1g and VF1h, respectively.
- (y) Polyshield Drying, identified as EU-24, approved for construction in 2009, with a maximum capacity of 110 pounds per hour, using fabric filter identified as Filter#24 for particulate control, and exhausting inside the building.
- (z) MXD6/BB10 Drying, identified as EU-25, approved for construction in 2009, with a maximum capacity of 66 pounds per hour, using fabric filter identified as Filter#25, for particulate control, and exhausting inside the building.

- (aa) One (1) container preform operation, identified as EU-26, approved for construction in 2009, with a maximum capacity of 44,800 preforms per hour, uncontrolled and exhausting inside the building.
- (bb) One (1) container blowmolding operation, identified as EU-27, approved for construction in 2009, with a maximum capacity of 1,975 pounds per hour, uncontrolled and exhausting inside the building.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.2.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated there under, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

D.2.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.2.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Operation Conditions

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.4 Volatile Organic Compound (VOC) Limitation [326 IAC 2-8]

Pursuant to 326 IAC 2-8-4 (FESOP):

- (a) The VOC emissions, after controls, from each Container Sterilization facility (EU-14a through EU14-f and EU28a through EU-28b) shall not exceed 1.77 pounds per hour.
- (b) The minimum overall VOC control efficiency for each scrubber (Scrubber F1a through F1h) shall be 67.8%.

Compliance with these limits, combined with the VOC emissions from all other emission units at this source, shall limit the source-wide total VOC emissions to less than 100 tons per year and shall render 326 IAC 2-7 (Part 70 Permits) not applicable.

D.2.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for EU-14a through EU-14f, EU-28a through EU-28b, and their control devices (F1a through F1h).

Compliance Determination Requirements

D.2.6 VOC Control

In order to comply with Condition D.2.4, the wet scrubbers F1a through F1h shall be in operation and control emissions from the container sterilization and filling facilities EU-14a through EU-14f and EU-28a through EU-28b at all times that these processes are in operation.

D.2.7 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

In order to verify compliance with Conditions D.2.4, the Permittee shall perform VOC emission testing for one (1) of the wet scrubbers F1a through F1h within 60 days after achieving the maximum capacity, but not later than 180 days after initial startup, utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Subsequent tests shall be performed on a unit that has not been previously tested. Testing shall be conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.2.8 Parametric Monitoring

The Permittee shall monitor and record the pressure drop and flow rate of the wet scrubbers (F1a through F1h) controlling the container sterilization and filling facilities (EU-14a through EU-14f and EU-28a through EU-28b) at least once per day when the associated process is in operation. When for any one reading, the pressure drop across the scrubber is outside the normal range of 1.5 and 6.5 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. When for any one reading, the flow rate of any of the scrubbers is less than the minimum of 7.0 gallons per minute, or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. 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 in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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 at least once every six (6) months.

D.2.9 Scrubber Malfunction

In the event that a scrubber malfunction has been observed, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.2.10 Record Keeping Requirements

- (a) To document compliance with Condition D.2.9, the Permittee shall maintain daily records of pressure drop and flow rate for the wet scrubbers (F1a through F1h) during normal operation.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Boilers

- (cc) Two (2) natural gas-fired boilers, identified as Boiler1 and Boiler2, approved for construction in 2007, each with a maximum heat input capacity of 99 MMBtu per hour, each equipped with ultra low-NOx burners (9 ppm NOx) and using flue gas recirculation for NOx control, with emissions exhausting to stacks VBoiler1 and VBoiler2, respectively. Under 40 CFR 60, Subpart Dc, Boiler1 and Boiler2 are considered to be Small Industrial-Commercial-Institutional Steam Generating Units.
- (ee) One (1) natural gas-fired boiler, identified as Boiler4, approved for construction in 2009, with a maximum heat input capacity of 99 MMBtu per hour, equipped with ultra low-NOx burners (9ppm NOx) and using flue gas recirculation for NOx control, with emissions exhausting to stack VBoiler4. Under 40 CFR 60, Subpart Dc, Boiler4 is considered to be a small industrial-commercial-institutional steam generating unit.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.3.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated there under, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

D.3.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.3.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Operation Conditions

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.4 Particulate [326 IAC 6-2-4]

- (a) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the particulate emissions from the boilers, identified as {Boiler1 and Boiler2}, shall each be limited to less than 0.27 pounds per million Btu heat input.
- (b) Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), the particulate emissions from the boiler, identified as Boiler 4, shall be less than 0.25 pound per million Btu heat input.

This emission limit was calculated using the following equation:

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

Where Pt = emission rate limit (lbs/MMBtu)
Q = total source heat input capacity (MMBtu/hr)

D.3.5 CO Limit [326 IAC 2-8]

- (a) The CO emissions from Boiler 1 shall not exceed 0.037 pound per MMBtu.
- (b) The CO emissions from Boiler 2 shall not exceed 0.037 pound per MMBtu.
- (c) The CO emissions from Boiler 4 shall not exceed 0.037 pound per MMBtu.

Compliance with the above limits, combined with the potential to emit CO from other emission units at the source, shall limit the CO from the entire source to less than 100 tons per twelve (12) consecutive month period and render 326 IAC 2-7 (Part 70 Permits) not applicable.

D.3.6 Volatile Organic Compound (VOC) Limit [326 IAC 2-8]

- (a) The VOC emissions from Boiler 1 shall not exceed 0.004 pound per MMBtu.
- (b) The VOC emissions from Boiler 2 shall not exceed 0.004 pound per MMBtu.
- (c) The VOC emissions from Boiler 4 shall not exceed 0.004 pound per MMBtu.

Compliance with the above limits, combined with the potential to emit VOC from other emission units at the source, shall limit the VOC from the entire source to less than 100 tons per twelve (12) consecutive month period and render 326 IAC 2-7 (Part 70 Permits) not applicable.

D.3.7 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the boilers.

Compliance Determination Requirements

D.3.8 Testing Requirement

In order to verify compliance with Conditions D.3.5 and D.3.6, the Permittee shall perform CO and VOC mission testing for Boilers 1, 2 and 4 within 60 days after achieving the maximum capacity, but not later than 180 days after initial startup, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C - Performance Testing.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.3.9 Record Keeping Requirements [326 IAC 12]

- (a) Pursuant to 326 IAC 12, the Permittee shall maintain daily records of the amount of fuel used in Boiler 1, Boiler 2 and Boiler 4. This requirement is not federally enforceable.
- (b) Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall maintain monthly records of the amount of fuel used in Boiler 1, Boiler 2 and Boiler 4.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

New Source Performance Standards (NSPS) Requirements [326 IAC 2-8-4(1)]

D.3.10 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

-
- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for Boiler1 and Boiler2, except as otherwise specified in 40 CFR Part 60, Subpart Dc.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

D.3.11 Standard of Performance for Small Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Dc]

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of Standard of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, which are incorporated by reference as 326 IAC 12, for Boiler1 and Boiler2 as follows:

New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units

§ 60.40c Applicability and delegation of authority.

(a) Except as provided in paragraph (d) of this section, the affected facility to which this subpart applies is 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 (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/hr).

(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, §60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 71 FR 9884, Feb. 27, 2006]

§ 60.41c Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act and in subpart A of this part.

Annual capacity factor means the ratio between the actual heat input to a steam generating unit from an individual fuel or combination of fuels during a period of 12 consecutive calendar months and the potential heat input to the steam generating unit from all fuels had the steam generating unit been operated for 8,760 hours during that 12-month period at the maximum design heat input capacity. In the case of steam generating units that are rented or leased, the actual heat input shall be determined based on the combined heat input from all operations of the affected facility during a period of 12 consecutive calendar months.

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388–77, 90, 91, 95, or 98a, Standard Specification for Classification of Coals by Rank (IBR—see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels derived from coal for the purposes of creating useful heat, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

Coal refuse means any by-product of coal mining or coal cleaning operations with an ash content greater than 50 percent (by weight) and a heating value less than 13,900 kilojoules per kilogram (kJ/kg) (6,000

Btu per pound (Btu/lb) on a dry basis.

Cogeneration steam generating unit means a steam generating unit that simultaneously produces both electrical (or mechanical) and thermal energy from the same primary energy source.

Combined cycle system means a system in which a separate source (such as a stationary gas turbine, internal combustion engine, or kiln) provides exhaust gas to a steam generating unit.

Combustion research means the experimental firing of any fuel or combination of fuels in a steam generating unit for the purpose of conducting research and development of more efficient combustion or more effective prevention or control of air pollutant emissions from combustion, provided that, during these periods of research and development, the heat generated is not used for any purpose other than preheating combustion air for use by that steam generating unit (i.e., the heat generated is released to the atmosphere without being used for space heating, process heating, driving pumps, preheating combustion air for other units, generating electricity, or any other purpose).

Conventional technology means wet flue gas desulfurization technology, dry flue gas desulfurization technology, atmospheric fluidized bed combustion technology, and oil hydrodesulfurization technology.

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396–78, 89, 90, 92, 96, or 98, “Standard Specification for Fuel Oils” (incorporated by reference—see §60.17).

Dry flue gas desulfurization technology means a sulfur dioxide (SO₂) control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a dry powder material. This definition includes devices where the dry powder material is subsequently converted to another form. Alkaline reagents used in dry flue gas desulfurization systems include, but are not limited to, lime and sodium compounds.

Duct burner means a device that combusts fuel and that is placed in the exhaust duct from another source (such as a stationary gas turbine, internal combustion engine, kiln, etc.) to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

Emerging technology means any SO₂ control system that is not defined as a conventional technology under this section, and for which the owner or operator of the affected facility has received approval from the Administrator to operate as an emerging technology under §60.48c(a)(4).

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

Fluidized bed combustion technology means a device wherein fuel is distributed onto a bed (or series of beds) of limestone aggregate (or other sorbent materials) for combustion; and these materials are forced upward in the device by the flow of combustion air and the gaseous products of combustion. Fluidized bed combustion technology includes, but is not limited to, bubbling bed units and circulating bed units.

Fuel pretreatment means a process that removes a portion of the sulfur in a fuel before combustion of the fuel in a steam generating unit.

Heat input means heat derived from combustion of fuel in a steam generating unit and does not include the heat derived from preheated combustion air, recirculated flue gases, or exhaust gases from other sources (such as stationary gas turbines, internal combustion engines, and kilns).

Heat transfer medium means any material that is used to transfer heat from one point to another point.

Maximum design heat input capacity means the ability of a steam generating unit to combust a stated maximum amount of fuel (or combination of fuels) on a steady state basis as determined by the physical design and characteristics of the steam generating unit.

Natural gas means (1) a naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane, or (2) liquefied petroleum (LP) gas, as defined by the American Society for Testing and Materials in ASTM D1835–86, 87, 91, or 97, "Standard Specification for Liquefied Petroleum Gases" (incorporated by reference—see §60.17).

Noncontinental area means the State of Hawaii, the Virgin Islands, Guam, American Samoa, the Commonwealth of Puerto Rico, or the Northern Mariana Islands.

Oil means crude oil or petroleum, or a liquid fuel derived from crude oil or petroleum, including distillate oil and residual oil.

Potential sulfur dioxide emission rate means the theoretical SO₂ emissions (nanograms per joule [ng/J], or pounds per million Btu [lb/million Btu] heat input) that would result from combusting fuel in an uncleaned state and without using emission control systems.

Process heater means a device that is primarily used to heat a material to initiate or promote a chemical reaction in which the material participates as a reactant or catalyst.

Residual oil means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6, as defined by the American Society for Testing and Materials in ASTM D396–78, 89, 90, 92, 96, or 98, "Standard Specification for Fuel Oils" (incorporated by reference—see §60.17).

Steam generating unit means a device that combusts any fuel and produces steam or heats water or any other heat transfer medium. This term includes any duct burner that combusts fuel and is part of a combined cycle system. This term does not include process heaters as defined in this subpart.

Steam generating unit operating day means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire 24-hour period.

Wet flue gas desulfurization technology means an SO₂ control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a liquid material. This definition includes devices where the liquid material is subsequently converted to another form. Alkaline reagents used in wet flue gas desulfurization systems include, but are not limited to, lime, limestone, and sodium compounds.

Wet scrubber system means any emission control device that mixes an aqueous stream or slurry with the exhaust gases from a steam generating unit to control emissions of particulate matter (PM) or SO₂.

Wood means wood, wood residue, bark, or any derivative fuel or residue thereof, in any form, including but not limited to sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues.

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 65 FR 61752, Oct. 17, 2000; 71 FR 9884, Feb. 27, 2006]

§ 60.43c Standard for particulate matter.

(d) The PM and opacity standards under this section apply at all times, except during periods of startup, shutdown, or malfunction.

(e)(1) On or after the date on which the initial performance test is completed or is required to be completed under §60.8, whichever date comes first, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, gas, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels and has a heat input capacity of 8.7 MW (30 MMBtu/h) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that contain particulate matter emissions in excess of 13 ng/J (0.030 lb/MMBtu) heat input, except as provided in paragraphs (e)(2) and (e)(3) of this section. Affected facilities subject to this paragraph, are also subject to the requirements of paragraphs (c) and (d) of this section.

[55 FR 37683, Sept. 12, 1990, as amended at 65 FR 61753, Oct. 17, 2000; 71 FR 9885, Feb. 27, 2006]

§ 60.45c Compliance and performance test methods and procedures for particulate matter.

(c) Units that burn only oil containing no more than 0.5 weight percent sulfur or liquid or gaseous fuels with potential sulfur dioxide emission rates of 230 ng/J (0.54 lb/MMBtu) heat input or less are not required to conduct emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned.

[55 FR 37683, Sept. 12, 1990, as amended at 65 FR 61753, Oct. 17, 2000; 71 FR 9885, Feb. 27, 2006]

§ 60.47c Emission monitoring for particulate matter.

(c) Units that burn only oil that contains no more than 0.5 weight percent sulfur or liquid or gaseous fuels with potential sulfur dioxide emission rates of 230 ng/J (0.54 lb/MMBtu) heat input or less are not required to conduct PM emissions monitoring if they maintain fuel supplier certifications of the sulfur content of the fuels burned.

[55 FR 37683, Sept. 12, 1990, as amended at 65 FR 61753, Oct. 17, 2000; 71 FR 9886, Feb. 27, 2006]

§ 60.48c Reporting and recordkeeping requirements.

(a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by §60.7 of this part. This notification shall include:

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

(2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c.

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

(4) Notification if an emerging technology will be used for controlling SO₂ emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

(b) The owner or operator of each affected facility subject to the SO₂ emission limits of §60.42c, or the PM or opacity limits of §60.43c, shall submit to the Administrator the performance test data from the initial and any subsequent performance tests and, if applicable, the performance evaluation of the CEMS and/or COMS using the applicable performance specifications in appendix B.

(g) The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. The owner or operator of an affected facility that only burns very low sulfur fuel oil or other liquid or gaseous fuels with potential sulfur dioxide emissions rate of 140 ng/J (0.32 lb/MMBtu) heat input or less shall record and maintain records of the fuels combusted during each

calendar month.

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

[55 FR 37683, Sept. 12, 1990, as amended at 64 FR 7465, Feb. 12, 1999; 65 FR 61753, Oct. 17, 2000; 71 FR 9886, Feb. 27, 2006]

D.3.12 One Time Deadlines Relating to NSPS Subpart Dc

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

- (a) Pursuant to 40 CFR 60.7(a)(1), submit notification of the date of construction of Boiler1 and Boiler2 no later than 30 days after commencement of construction.
- (b) Pursuant to 40 CFR 60.7(a)(3), submit notification of the date of initial startup of Boiler1 and Boiler2 within 15 days of startup. This notification shall include the design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility, if applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c, and the annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

SECTION D.4 EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description: Boilers

- (q) One (1) natural gas-fired boiler, identified as Boiler3, approved for construction in 2007, with a maximum heat input capacity of 11.8 MMBtu per hour, equipped with low-NOx burners for NOx control, with emissions exhausting to stack VBoiler3. Under 40 CFR 60, Subpart Dc, Boiler3 is considered to be a Small Industrial-Commercial-Institutional Steam Generating Unit.

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.4.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated there under, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

D.4.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.4.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Operation Conditions

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.4.4 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (PM Emissions for Sources of Indirect Heating), the particulate emissions from Boiler3 shall be limited to less than 0.27 pounds per million Btu heat input.

This emission limit was calculated using the following equation:

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

Where Pt = emission rate limit (lbs/MMBtu)
Q = total source heat input capacity (MMBtu/hr)

D.4.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this boiler.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.4.7 Record Keeping Requirements [326 IAC 12]

- (a) Pursuant to 326 IAC 12, the Permittee shall maintain daily records of the amount of fuel used in Boiler3. This requirement is not federally enforceable.
- (b) Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall maintain monthly records of the amount of fuel used in Boiler3.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

New Source Performance Standards (NSPS) Requirements [326 IAC 2-8-4(1)]

D.4.8 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for Boiler3, except as otherwise specified in 40 CFR Part 60, Subpart Dc.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

D.4.9 Standard of Performance for Small Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR Part 60, Subpart Dc]

Pursuant to 40 CFR Part 60, Subpart Dc, the Permittee shall comply with the provisions of Standard of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, which are incorporated by reference as 326 IAC 12, for Boiler3 as follows:

New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units

§ 60.40c Applicability and delegation of authority.

(a) Except as provided in paragraph (d) of this section, the affected facility to which this subpart applies is 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 (Btu/hr)) or less, but greater than or equal to 2.9 MW (10 million Btu/hr).

(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, §60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 71 FR 9884, Feb. 27, 2006]

§ 60.41c Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act and in subpart A of this part.

Annual capacity factor means the ratio between the actual heat input to a steam generating unit from an individual fuel or combination of fuels during a period of 12 consecutive calendar months and the potential heat input to the steam generating unit from all fuels had the steam generating unit been operated for 8,760 hours during that 12-month period at the maximum design heat input capacity. In the case of steam generating units that are rented or leased, the actual heat input shall be determined based on the

combined heat input from all operations of the affected facility during a period of 12 consecutive calendar months.

Coal means all solid fuels classified as anthracite, bituminous, subbituminous, or lignite by the American Society of Testing and Materials in ASTM D388–77, 90, 91, 95, or 98a, Standard Specification for Classification of Coals by Rank (IBR—see §60.17), coal refuse, and petroleum coke. Coal-derived synthetic fuels derived from coal for the purposes of creating useful heat, including but not limited to solvent refined coal, gasified coal, coal-oil mixtures, and coal-water mixtures, are also included in this definition for the purposes of this subpart.

Coal refuse means any by-product of coal mining or coal cleaning operations with an ash content greater than 50 percent (by weight) and a heating value less than 13,900 kilojoules per kilogram (kJ/kg) (6,000 Btu per pound (Btu/lb) on a dry basis.

Cogeneration steam generating unit means a steam generating unit that simultaneously produces either electrical (or mechanical) and thermal energy from the same primary energy source.

Combined cycle system means a system in which a separate source (such as a stationary gas turbine, internal combustion engine, or kiln) provides exhaust gas to a steam generating unit.

Combustion research means the experimental firing of any fuel or combination of fuels in a steam generating unit for the purpose of conducting research and development of more efficient combustion or more effective prevention or control of air pollutant emissions from combustion, provided that, during these periods of research and development, the heat generated is not used for any purpose other than preheating combustion air for use by that steam generating unit (i.e., the heat generated is released to the atmosphere without being used for space heating, process heating, driving pumps, preheating combustion air for other units, generating electricity, or any other purpose).

Conventional technology means wet flue gas desulfurization technology, dry flue gas desulfurization technology, atmospheric fluidized bed combustion technology, and oil hydrodesulfurization technology.

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396–78, 89, 90, 92, 96, or 98, “Standard Specification for Fuel Oils” (incorporated by reference—see §60.17).

Dry flue gas desulfurization technology means a sulfur dioxide (SO₂) control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a dry powder material. This definition includes devices where the dry powder material is subsequently converted to another form. Alkaline reagents used in dry flue gas desulfurization systems include, but are not limited to, lime and sodium compounds.

Duct burner means a device that combusts fuel and that is placed in the exhaust duct from another source (such as a stationary gas turbine, internal combustion engine, kiln, etc.) to allow the firing of additional fuel to heat the exhaust gases before the exhaust gases enter a steam generating unit.

Emerging technology means any SO₂ control system that is not defined as a conventional technology under this section, and for which the owner or operator of the affected facility has received approval from the Administrator to operate as an emerging technology under §60.48c(a)(4).

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

Fluidized bed combustion technology means a device wherein fuel is distributed onto a bed (or series of beds) of limestone aggregate (or other sorbent materials) for combustion; and these materials are forced

upward in the device by the flow of combustion air and the gaseous products of combustion. Fluidized bed combustion technology includes, but is not limited to, bubbling bed units and circulating bed units.

Fuel pretreatment means a process that removes a portion of the sulfur in a fuel before combustion of the fuel in a steam generating unit.

Heat input means heat derived from combustion of fuel in a steam generating unit and does not include the heat derived from preheated combustion air, recirculated flue gases, or exhaust gases from other sources (such as stationary gas turbines, internal combustion engines, and kilns).

Heat transfer medium means any material that is used to transfer heat from one point to another point.

Maximum design heat input capacity means the ability of a steam generating unit to combust a stated maximum amount of fuel (or combination of fuels) on a steady state basis as determined by the physical design and characteristics of the steam generating unit.

Natural gas means (1) a naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane, or (2) liquefied petroleum (LP) gas, as defined by the American Society for Testing and Materials in ASTM D1835–86, 87, 91, or 97, "Standard Specification for Liquefied Petroleum Gases" (incorporated by reference—see §60.17).

Noncontinental area means the State of Hawaii, the Virgin Islands, Guam, American Samoa, the Commonwealth of Puerto Rico, or the Northern Mariana Islands.

Oil means crude oil or petroleum, or a liquid fuel derived from crude oil or petroleum, including distillate oil and residual oil.

Potential sulfur dioxide emission rate means the theoretical SO₂ emissions (nanograms per joule [ng/J], or pounds per million Btu [lb/million Btu] heat input) that would result from combusting fuel in an uncleaned state and without using emission control systems.

Process heater means a device that is primarily used to heat a material to initiate or promote a chemical reaction in which the material participates as a reactant or catalyst.

Residual oil means crude oil, fuel oil that does not comply with the specifications under the definition of distillate oil, and all fuel oil numbers 4, 5, and 6, as defined by the American Society for Testing and Materials in ASTM D396–78, 89, 90, 92, 96, or 98, "Standard Specification for Fuel Oils" (incorporated by reference—see §60.17).

Steam generating unit means a device that combusts any fuel and produces steam or heats water or any other heat transfer medium. This term includes any duct burner that combusts fuel and is part of a combined cycle system. This term does not include process heaters as defined in this subpart.

Steam generating unit operating day means a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire 24-hour period.

Wet flue gas desulfurization technology means an SO₂ control system that is located between the steam generating unit and the exhaust vent or stack, and that removes sulfur oxides from the combustion gases of the steam generating unit by contacting the combustion gases with an alkaline slurry or solution and forming a liquid material. This definition includes devices where the liquid material is subsequently converted to another form. Alkaline reagents used in wet flue gas desulfurization systems include, but are not limited to, lime, limestone, and sodium compounds.

Wet scrubber system means any emission control device that mixes an aqueous stream or slurry with the exhaust gases from a steam generating unit to control emissions of particulate matter (PM) or SO₂.

Wood means wood, wood residue, bark, or any derivative fuel or residue thereof, in any form, including but not limited to sawdust, sanderdust, wood chips, scraps, slabs, millings, shavings, and processed pellets made from wood or other forest residues.

[55 FR 37683, Sept. 12, 1990, as amended at 61 FR 20736, May 8, 1996; 65 FR 61752, Oct. 17, 2000; 71 FR 9884, Feb. 27, 2006]

§ 60.48c Reporting and recordkeeping requirements.

(a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by §60.7 of this part. This notification shall include:

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

(g) The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. The owner or operator of an affected facility that only burns very low sulfur fuel oil or other liquid or gaseous fuels with potential sulfur dioxide emissions rate of 140 ng/J (0.32 lb/MMBtu) heat input or less shall record and maintain records of the fuels combusted during each calendar month.

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

[55 FR 37683, Sept. 12, 1990, as amended at 64 FR 7465, Feb. 12, 1999; 65 FR 61753, Oct. 17, 2000; 71 FR 9886, Feb. 27, 2006]

D.4.10 One Time Deadlines Relating to NSPS Subpart Dc

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

- (a) Pursuant to 40 CFR 60.7(a)(1), submit notification of the date of construction of Boiler3, no later than 30 days after commencement of construction.
- (b) Pursuant to 40 CFR 60.7(a)(3), submit notification of the date of initial startup of Boiler3, within 15 days of startup. This notification shall include the design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility, if applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c, and the annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

SECTION D.5

EMISSIONS UNIT OPERATION CONDITIONS

Emissions Unit Description:

Insignificant Activities: Emergency Generators and Emergency Fire Pump Engine

- (k) Emergency diesel generators not exceeding one thousand six hundred (1,600) horsepower, consisting of three (3) diesel-fueled generators, identified as Gen1, Gen2, and Gen3, approved for construction in 2007, each rated at 591 brake horsepower, each with a displacement of 14.9 liters, with emissions uncontrolled and exhausting to stacks VGen1, VGen2, and VGen3. Under 40 CFR 60, Subpart IIII, Gen1, Gen2, and Gen3 are considered to be stationary compression ignition internal combustion engines (CI ICE).
- (l) A emergency fire pump engine, consisting of one (1) diesel-fueled pump engine, identified as Pump1, approved for construction in 2007, rated at 183 horsepower, with a displacement of 6.8 liters, with emissions uncontrolled and exhausting to stack VPump1. Under 40 CFR 60, Subpart IIII, Pump1 is considered to be a stationary compression ignition internal combustion engine (CI ICE).

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

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

Construction Conditions

General Construction Conditions

D.5.1 Permit No Defense

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated there under, as well as other applicable local, state, and federal requirements.

Effective Date of the Permit

D.5.2 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

D.5.3 Modification to Construction Conditions [326 IAC 2]

All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

Operation Conditions

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

D.5.4 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

(a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the emergency generators (Gen1, Gen2, and Gen3) and the emergency fire pump engine (Pump1), except as otherwise specified in 40 CFR Part 60, Subpart IIII.

(b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

D.5.5 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60, Subpart IIII] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the provisions of Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, which are incorporated by reference as 326 IAC 12, for the emergency generators (Gen1, Gen2, and Gen3) and the emergency fire pump engine (Pump1), as follows:

Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

§ 60.4200 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (3) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:

(i) Manufactured after April 1, 2006 and are not fire pump engines, or

(ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

Emission Standards for Owners and Operators

§ 60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?

(a) Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1).

(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine

power for their 2007 model year and later emergency stationary CI ICE.

(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.

§ 60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine.

Fuel Requirements for Owners and Operators

§ 60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

(a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.

(c) Owners and operators of pre-2011 model year stationary CI ICE subject to this subpart may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of paragraphs (a) and (b) of this section beyond the dates required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

Other Requirements for Owners and Operators

§ 60.4208 What is the deadline for importing or installing stationary CI ICE produced in the previous model year?

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

(b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.

(c) After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.

(d) After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.

(e) After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.

(f) After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.

(g) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited

to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (f) of this section after the dates specified in paragraphs (a) through (f) of this section.

(h) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

§ 60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

(a) If you are an owner or operator of an emergency stationary CI internal combustion engine, you must install a non-resettable hour meter prior to startup of the engine.

Compliance Requirements

§ 60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?

(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, owners and operators may only change those settings that are permitted by the manufacturer. You must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

(b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.

(c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's specifications.

(e) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. For owners and operators of emergency engines meeting standards under §60.4205 but not §60.4204, any operation other than emergency operation, and maintenance and testing as permitted in this section, is prohibited.

Testing Requirements for Owners and Operators

§ 60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (d) of this section.

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F.

(b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

(d) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in paragraph (c) of this section.

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

Notification, Reports, and Records for Owners and Operators

§ 60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

General Provisions

§ 60.4218 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

Definitions

§ 60.4219 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

Combustion turbine means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and sub-components comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/electric generating system.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

Diesel particulate filter means an emission control technology that reduces PM emissions by trapping the particles in a flow filter substrate and periodically removes the collected particles by either physical action or by oxidizing (burning off) the particles in a process called regeneration.

Emergency stationary internal combustion engine means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

Engine manufacturer means the manufacturer of the engine. See the definition of "manufacturer" in this section.

Fire pump engine means an emergency stationary internal combustion engine certified to NFPA requirements that is used to provide power to pump water for fire suppression or protection.

Manufacturer has the meaning given in section 216(1) of the Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new stationary engine into commerce in the United States. This includes importers who import stationary

engines for sale or resale.

Maximum engine power means maximum engine power as defined in 40 CFR 1039.801.

Model year means either:

- (1) The calendar year in which the engine was originally produced, or
- (2) The annual new model production period of the engine manufacturer if it is different than the calendar year. This must include January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year. For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was originally produced.

Other internal combustion engine means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

Reciprocating internal combustion engine means any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work.

Rotary internal combustion engine means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

Spark ignition means relating to a gasoline, natural gas, or liquefied petroleum gas fueled engine or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Subpart means 40 CFR part 60, subpart IIII.

Useful life means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for useful life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for useful life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).

Tables to Subpart IIII of Part 60

Table 1 to Subpart IIII of Part 60. Emission Standards for Stationary Pre-2007 Model Year Engines With a Displacement of <10 Liters per Cylinder and 2007-2010 Model Year Engines >2,237 KW (3,000 HP) and With a Displacement of <10 Liters per Cylinder

[As stated in §§ 60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards]

Emission standards for stationary pre-2007 model year engines with a displacement of <10 liters per cylinder and 2007-2010 model year engines >2,237 KW (3,000 HP) and with a Maximum engine power displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr)					
	NMHC + NOX	HC	NOX	CO	PM
KW<8 (HP<11)	10.5 (7.8)			8.0 (6.0)	1.0 (0.75)
8[le]KW<19 (11[le]HP<25)	9.5 (7.1)			6.6 (4.9)	0.80 (0.60)
19[le]KW<37 (25[le]HP<50)	9.5 (7.1)			5.5 (4.1)	0.80 (0.60)
37[le]KW<56 (50[le]HP<75)			9.2 (6.9)		
56[le]KW<75 (75[le]HP<100)			9.2 (6.9)		
75[le]KW<130 (100[le]HP<175)			9.2 (6.9)		
130[le]KW<225 (175[le]HP<300)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
225[le]KW<450 (300[le]HP<600)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
450[le]KW[le]560 (600[le]HP[le]750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
KW>560 (HP>750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Table 4 to Subpart IIII of Part 60. Emission Standards for Stationary Fire Pump Engines

[As stated in §§ 60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	NMHC + NOX	CO	PM
KW<8 (HP<11)	2010 and earlier	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011+	7.5 (5.6)	.....	0.40 (0.30)
8[le]KW<19 (11[le]HP<25)	2010 and earlier	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011+	7.5 (5.6)	.....	0.40 (0.30)
19[le]KW<37 (25[le]HP<50)	2010 and earlier	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)
	2011+	7.5 (5.6)	.....	0.30 (0.22)
37[le]KW<56 (50[le]HP<75)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+ \1\	4.7 (3.5)	.....	0.40 (0.30)
56[le]KW<75 (75[le]HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+ \1\	4.7 (3.5)	.....	0.40 (0.30)
75[le]KW<130 (100[le]HP<175)	2009 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010+ \2\	4.0 (3.0)	.....	0.30 (0.22)
130[le]KW<225 (175[le]HP<300)	2008 and earlier	0.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+ \3\	4.0 (3.0)	.....	0.20 (0.15)
225[le]KW<450 (300[le]HP<600)	2008 and earlier	0.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+ \3\	4.0 (3.0)	.....	0.20 (0.15)
450[le]KW[le]560 (600[le]HP[le]750)	2008 and earlier	0.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+	4.0 (3.0)	.....	0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	0.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008+	6.4 (4.8)	.....	0.20 (0.15)

\1\ For model years 2011-2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

\2\ For model years 2010-2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

\3\ In model years 2009-2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

Table 5 to Subpart IIII of Part 60. Labeling and Recordkeeping Requirements for New Stationary Emergency Engines

[You must comply with the labeling requirements in § 60.4210(f) and the recordkeeping requirements in § 60.4214(b) for new emergency stationary CI ICE beginning in the following model years:]

Engine power	Starting model year
19[le]KW<56 (25[le]HP<75)	2013
56[le]KW<130 (75[le]HP<175)	2012
KW>=130 (HP>=175)	2011

D.5.6 National Emission Standards for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] [326 IAC 20-82]

Pursuant to 40 CFR 63, Subpart ZZZZ, the Permittee shall comply with the provisions of National Emission Standards for Stationary Reciprocating Internal Combustion Engines, which are incorporated by reference as 326 IAC 20-82, for the emergency generators (Gen1, Gen2 and Gen3) and the emergency fire pump engine (Pump1) as follows:

Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Source: 69 FR 33506, June 15, 2004, unless otherwise noted.

What This Subpart Covers

§ 63.6580 What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

§ 63.6585 Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008]

§ 63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source.

(a) *Affected source.* An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(2) *New stationary RICE.* (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.

(iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(c) *Stationary RICE subject to Regulations under 40 CFR Part 60.* An affected source that is a new or reconstructed stationary RICE located at an area source, or is a new or reconstructed stationary RICE located at a major source of HAP emissions and is a spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of less than 500 brake HP, a spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of less than 250 brake HP, or a 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP, a stationary RICE with a site rating of less than or equal to 500 brake HP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP, or a compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP, must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008]

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Nestle USA, Inc.
Source Address: 4300 West 73rd Street, Anderson, Indiana 46013
Mailing Address: 800 North Brand Blvd., Glendale, CA 91203
FESOP Permit No.: F095-23798-00129

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
100 North Senate Avenue
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Phone: 317-233-0178
Fax: 317-233-6865**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Nestle USA, Inc.
Source Address: 4300 West 73rd Street, Anderson, Indiana 46013
Mailing Address: 800 North Brand Blvd., Glendale, CA 91203
FESOP Permit No.: F095-23798-00129

This form consists of 2 pages

Page 1 of 2

- | |
|--|
| <p><input type="checkbox"/> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none">• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-0178, ask for Compliance Section); and• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-6865), and follow the other requirements of 326 IAC 2-7-16 |
|--|

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

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

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

Page 2 of 2

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE AND ENFORCEMENT BRANCH
FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Nestle USA, Inc.
Source Address: 4300 West 73rd Street, Anderson, Indiana 46013
Mailing Address: 800 North Brand Blvd., Glendale, CA 91203
FESOP Permit No.: F095-23798-00129

Months: _____ **to** _____ **Year:** _____

Page 1 of 2

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

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

Form Completed by: _____

Title / Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

100 North Senate Avenue
Indianapolis, Indiana 46204-2251

Nestle USA, Inc.
4300 West 73rd Street
Anderson, Indiana 46013

Affidavit of Construction

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.
2. I hold the position of _____ for Nestle USA, Inc.
(Title)
3. By virtue of my position with Nestle USA, Inc., I have personal knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of Nestle USA, Inc.
4. I hereby certify that Nestle USA, Inc., 4300 West 73rd Street, Anderson, Indiana 46013, completed construction of the food manufacturing and bottling facility on _____ in conformity with the requirements and intent of the construction permit application received by the Office of Air Quality on March 29, 2005 and as permitted pursuant to New Source Construction Permit and Federally Enforceable State Operating Permit No. 095-22798-00129, Plant ID No. 095-00129 issued on _____.

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

Signature _____

Date _____

STATE OF INDIANA)
)SS

COUNTY OF _____)

Subscribed and sworn to me, a notary public in and for _____ County and State of
Indiana on this _____ day of _____, 20 _____ .

My Commission expires:

Signature _____

Name (typed or printed)

Indiana Department of Environmental Management Office of Air Quality

Technical Support Document (TSD) for a Significant Permit Revision to a Federally Enforceable State Operating Permit (FESOP)

Source Description and Location

Source Name:	Nestle USA, Inc.
Source Location:	4300 West 73rd Street, Anderson, Indiana 46013
County:	Madison
SIC Code:	2026, 2023, 3085
Operation Permit No.:	F 095-23798-00129
Operation Permit Issuance Date:	March 6, 2007
Significant Permit Revision No.:	095-27579-00129
Permit Reviewer:	Anne-Marie C. Hart

On March 6, 2009, the Office of Air Quality (OAQ) received an application from Nestle USA, Inc. related to a modification to an existing stationary food processing and bottling plant.

Existing Approvals

The source was issued FESOP No. F095-23798-00129 on March 6, 2007.

County Attainment Status

The source is located in Madison County.

Pollutant	Designation
SO ₂	Better than national standards.
CO	Unclassifiable or attainment effective November 15, 1990.
O ₃	Attainment effective October 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.
¹ Unclassifiable or attainment effective October 18, 2000, for the 1-hour ozone standard which was revoked effective June 15, 2005. Unclassifiable or attainment effective 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. Madison 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}**
Madison County has been classified as attainment for PM_{2.5}. On May 8, 2008 U.S. EPA promulgated the requirements for Prevention of Significant Deterioration (PSD) for PM_{2.5} emissions, and the effective date of these rules was July 15, 2008. Indiana has three years from the publication of these rules to revise its PSD rules, 326 IAC 2-2, to include those requirements.

Process/ Emission Unit	Potential To Emit of the Entire Source Prior to Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NO _x	VOC	CO	Total HAPs	Worst Single HAP
negl. = negligible									
These emissions are based upon FESOP F095-23798-00129 issued March 6, 2007									

- (a) This existing source is not a major stationary source, under PSD (326 IAC 2-2), because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).
- (b) This existing source is not a major source of HAPs, as defined in 40 CFR 63.41, because the unlimited potential to emit HAPs are less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs. Therefore, this source is an area source under Section 112 of the Clean Air Act (CAA).

Description of Proposed Revision

The Office of Air Quality (OAQ) has reviewed an application, submitted by Nestle, USA on March 6, 2009, relating to the addition of two additional lines for beverage production and the use of alternative emission factors for the existing container sterilization and proposed natural gas-fired boilers.

The following is a list of the new emission units and pollution control devices:

- (a) One (1) Tapioca Dextrin & Fructose Transfer Station, identified as EU-16, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#101 for particulate control, and exhausting inside the building.
- (b) One (1) Soya Cyclone and Hopper, identified as EU-17, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#1309 for particulate control, and exhausting inside the building.
- (c) Major Ingredients Cyclones and Silos, identified as EU-18, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#309 for particulate control, and exhausting inside the building.
- (d) One (1) Big Bag Filling Station, identified as EU-19, approved for construction in 2009, with a maximum capacity of 13,244 pounds per hour, using an integral fabric filter identified as Filter#607 for particulate control, and exhausting inside the building.
- (e) Weighing Hoppers before Scanima, identified as EU-20, approved for construction in 2009, with a maximum capacity of 1,125 pounds per hour, using an integral fabric filter identified as Filter#814 for particulate control, and exhausting inside the building.
- (f) Micro & Macro Ingredients Transfer Station, identified as EU-21, approved for construction in 2009, with a maximum capacity of 250 pounds per hour, using an integral fabric filter identified as Filter#1601 for particulate control, and exhausting inside the building.
- (g) Pre-weight Dumping Station, identified as EU-22, approved for construction in 2009, with a maximum capacity of 20 pounds per hour, using an integral fabric filter identified as Filter#1701 for particulate control, and exhausting inside the building.
- (h) Cocoa Dumping Station, identified as EU-23, approved for construction in 2009, with a maximum capacity of 8,816 pounds per hour, using an integral fabric filter identified as Filter#1801 for particulate control, and exhausting inside the building.

- (i) Polyshield Drying, identified as EU-24, approved for construction in 2009, with a maximum capacity of 110 pounds per hour, using an integral fabric filter identified as Filter#24 for particulate control, and exhausting inside the building.
- (j) MXD6/BB10 Drying, identified as EU-25, approved for construction in 2009, with a maximum capacity of 66 pounds per hour, using an integral fabric filter identified as Filter#25, for particulate control, and exhausting inside the building.
- (k) One (1) container preform operation, identified as EU-26, approved for construction in 2009, with a maximum capacity of 44,800 preforms per hour, uncontrolled and exhausting inside the building.
- (l) One (1) container blowmolding operation, identified as EU-27, approved for construction in 2009, with a maximum capacity of 1,975 pounds per hour, uncontrolled and exhausting inside the building.
- (m) Two (2) container sterilization and filling facilities, identified as EU28a and EU28b, approved for construction in 2009, with a combined maximum throughput capacity of 43,200 bottles per hour, using a VOC/oxidizer rinse to sanitize containers prior to filling, with emissions from each sterilization and filling facility controlled by a wet scrubber (F1g and F1h, respectively), and exhausting to stacks VF1g and VF1h, respectively.
- (n) One (1) natural gas-fired boiler, identified as Boiler4, approved for construction in 2009, with a maximum heat input capacity of 99 MMBtu per hour, equipped with ultra low-NOx burners (9ppm NOx) and using flue gas recirculation for NOx control, with emissions exhausting to stack VBoiler4. Under 40 CFR 60, Subpart Dc, Boiler4 is considered to be a small industrial-commercial-institutional steam generating unit.
- (o) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour, consisting of three (3) space heaters and HVAC units with a combined heat input capacity of 7.50 MMBtu per hour.

The following units are being evaluated due to change in emission factors:

- (a) Six (6) container sterilization and filling facilities, identified as EU-14a through EU-14f, approved for construction in 2007, with a combined maximum throughput capacity of 10,666 pounds of plastic containers per hour, using a VOC/oxidizer rinse to sanitize containers prior to filling, with emissions from each sterilization and filling facility controlled by a wet scrubber (F1a through F1f, respectively), and exhausting to stacks VF1a through VF1f, respectively.
- (b) Two (2) natural gas-fired boilers, identified as Boiler1 and Boiler2, approved for construction in 2007, each with a maximum heat input capacity of 99 MMBtu per hour, each equipped with ultra low-NOx burners (9 ppm NOx) and using flue gas recirculation for NOx control, with emissions exhausting to stacks VBoiler1 and VBoiler2, respectively. Under 40 CFR 60, Subpart Dc, Boiler1 and Boiler2 are considered to be Small Industrial-Commercial-Institutional Steam Generating Units.

“Integral Part of the Process” Determination

The Permittee has submitted the following information to justify why the fabric filters (Filters #101, #1309, #309, #607, #814, #1601, #1701, #1810, #24 and #25) should be considered an integral part of the food and bottle processing:

- (a) The dry material conveyance systems are designed as closed systems in order to facilitate vacuum transfer of dry materials. They are equipped with fabric filters to assure all materials

transferred are collected. The vacuum transfer processes cannot function without these filters.

- (b) Fabric filters are incorporated in the system at eight (8) locations to separate ingredients from the air stream used to transport them. The table below represents that this system, without the filters, would result in the loss of most of the material transferred, or \$1.049 million per year:

Expected material throughput	21,069,000	lb/year
Recovery ¹	90	%
Material recovered	2,106,900	lb/year
Average cost of material	\$0.65	per pound
Expense of no fabric filter	\$1,369,000	per year
Annualized cost of fabric filters (8 systems)	\$320,000	per year
Economic benefit of filter systems	\$1,049,000	per year

¹ Actual efficiency 99.9%

- (c) Fabric filters (Filters #24 and #25) are used in two (2) locations to separate PET from the air stream used to transport it. The table below represents that this system, without the filters, would result in the loss of \$961,000 per year:

PET throughput	1,542,000	lb/year
Recovery ¹	90	%
PET recovered	1,388,000	lb/year
Cost of PET	\$0.75	per pound
Expense of no fabric filter	\$1,041,000	per year
Annualized cost of fabric filters (2 systems)	\$80,000	per year
Economic benefit of filter systems	\$961,000	per year

¹ Actual efficiency 99.9%

IDEM, OAQ has evaluated the information submitted and agrees that the fabric filters (Filters #101, #1309, #309, #607, #814, #1601, #1701, #1810, #24 and #25) should be considered an integral part of the food and bottling processes. Therefore, the permitting level will be determined using the potential to emit after the fabric filters. Operating conditions in the proposed permit will specify that the fabric filters shall operate at all times when the food and bottling processes are in operation. This determination was similar to the initial determination made under FESOP No. F095-23798-00129, issued on March 6, 2007.

Enforcement Issues

There are no pending enforcement actions related to this revision.

Emission Calculations

See Appendix A of this TSD for detailed emission calculations.

Permit Level Determination – FESOP Revision

The following table is used to determine the appropriate permit level under 326 IAC 2-8.11.1. This table reflects the PTE before controls of the proposed revision. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Process/ Emission Unit	Potential To Emit of the Entire Source to accommodate the Proposed Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs	Worst Single HAP
Forming (EU-12 - EU-13)	1.24	1.24	0.00	0.00	0.00	23.40	0.00	Negl.	Negl. Aldehydes
Forming (EU26 and EU27)	0.23	0.23	0.23	0.00	0.00	4.33	0.00	Negl.	Negl.
Container Sterilization (EU14a-f and EU28a-b)	0.00	0.00	0.00	0.00	0.00	<68.80 <62.02	0.00	0.12	0.12 Methanol
Boiler 1	0.81	3.23	3.23	0.26	13.60 4.77	2.34 1.73	35.70 16.04	0.80	0.76 Hexane
Boiler 2	0.81	3.23	3.23	0.26	13.60 4.77	2.34 1.73	35.70 16.04	0.80	0.76 Hexane
Boiler 3	0.10	0.39	0.39	0.03	2.53	0.28	4.26	0.10	0.09 Hexane
Boiler 4	0.81	3.23	3.23	0.26	4.77	1.73	16.04	0.80	0.76 Hexane
Insignificant Activities - Heaters, HVAC Units	0.55	2.22	2.22	0.18	29.29	1.61	24.56	0.55	0.53 Hexane
Insignificant Activities - Emergency Generators (Gen1 - Gen3)	0.98	0.98	0.98	0.91	13.74	0.06	0.42	0.02	Negl. Formaldehyde
Insignificant Activities - Fire Pump Engine (Pump 1)	0.10	0.10	0.10	0.09	1.42	0.11	0.31	0.00	0.00
Total PTE of Entire Source	9.50	18.72	18.72	1.99	61.29	<100	44.67	3.19	2.90 Hexane
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	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".									

The table below summarizes the potential to emit of the entire source after issuance of this revision, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this FESOP permit revision, and only to the extent that the effect of the control equipment is made practically enforceable in the permit. (Note: the table below was generated from the above table, with bold text un-bolded and strikethrough text deleted)

Process/ Emission Unit	Potential To Emit of the Entire Source After Issuance of Revision (tons/year)								
	PM	PM10	PM2.5	SO ₂	NOx	VOC	CO	Total HAPs	Worst Single HAP
Pneumatic Transfer (EU-1 - EU11, EU-15)	3.15	3.15	3.15	0.00	0.00	0.00	0.00	0.00	0.00
Pneumatic Transfer (EU-16 - EU-25)	0.72	0.72	0.72	0.00	0.00	0.00	0.00	0.00	0.00
Forming (EU-12 - EU-13)	1.24	1.24	0.00	0.00	0.00	23.40	0.00	Negl.	Negl. Aldehydes
Forming (EU26 and EU27)	0.23	0.23	0.23	0.00	0.00	4.33	0.00	Negl.	Negl.
Container Sterilization (EU14a-f and EU28a-b)	0.00	0.00	0.00	0.00	0.00	<62.02	0.00	0.12	0.12 Methanol
Boiler 1	0.81	3.23	3.23	0.26	4.77	1.73	16.04	0.80	0.76 Hexane
Boiler 2	0.81	3.23	3.23	0.26	4.77	1.73	16.04	0.80	0.76 Hexane
Boiler 3	0.10	0.39	0.39	0.03	2.53	0.28	4.26	0.10	0.09 Hexane
Boiler 4	0.81	3.23	3.23	0.26	4.77	1.73	16.04	0.80	0.76 Hexane
Insignificant Activities - Heaters, HVAC Units	0.55	2.22	2.22	0.18	29.29	1.61	24.56	0.55	0.53 Hexane
Insignificant Activities - Emergency Generators (Gen1 - Gen3)	0.98	0.98	0.98	0.91	13.74	0.06	0.42	0.02	Negl. Formaldehyde
Insignificant Activities - Fire Pump Engine (Pump 1)	0.10	0.10	0.10	0.09	1.42	0.11	0.31	0.00	0.00
Total PTE of Entire Source	9.50	18.72	18.72	1.99	61.29	<100	44.67	3.19	2.90 Hexane
Title V Major Source Thresholds	NA	100	100	100	100	100	100	25	10
PSD Major Source Thresholds	250	250	250	250	250	250	250	NA	NA
Emission Offset/ Nonattainment NSR Major Source Thresholds	NA	NA	NA	NA	NA	NA	NA	NA	NA
negl. = negligible									

(a) FESOP Status

This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP).

In order to comply with the requirements of 326 IAC 2-8-4 (FESOP), the source shall comply with the following:

- (1) The VOC emissions, after controls, from each Container Sterilization facility (EU-14a through 14f, EU28a and 28b) shall not exceed 1.77 pounds per hour. Each scrubber (Scrubber F1a through F1h) shall achieve a control efficiency of at least 67.8% in order to comply with this limit.
- (2) The VOC emissions from Boilers 1, 2 and 4 shall not exceed 0.004 pound per MMBtu, each.
- (3) The CO emissions from Boilers 1, 2 and 4 shall not exceed 0.038 pound per MMBtu, each.

Compliance with these limits, combined with the potential to emit VOC and CO from all other emission units at this source, shall limit the source-wide total potential to emit of VOC and CO to less than 100 tons per 12 consecutive month period each and shall render 326 IAC 2-7 (Part 70 Permits) not applicable.

- (b) PSD Minor Source
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

Federal Rule Applicability Determination

New Source Performance Standards (NSPS)

- (a) The natural gas-fired boiler, identified as Boiler 4, is subject to the New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60, Subpart Dc), because Boiler 4 will be constructed after June 9, 1989 and has a maximum design heat input capacity greater than 10 MMBtu per hour and less than 100 MMBtu per hour.

Applicable portions of the NSPS are the following:

- (1) 40 CFR 60.40c
- (2) 40 CFR 60.41c
- (3) 40 CFR 60.48c(a), (a)(1), (a)(3)
- (4) 40 CFR 60.48c(g)
- (5) 40 CFR 60.48c(i)

The requirements of 40 CFR Part 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to the natural gas-fired boiler identified as Boiler 4 except as otherwise specified in 40 CFR 60, Subpart Dc.

- (b) There are no other New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) included for this proposed revision.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

- (c) The existing emergency diesel generators (Gen1, Gen2, Gen3) and the existing emergency diesel fire pump engine (Pump1) are subject to the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ), because the existing emergency diesel generators and the existing emergency diesel fire pump are stationary reciprocating internal combustion engines located at an area source of HAPs. FESOP F095-23798-00129, issued March 6, 2007, did not include the requirements of 40 CFR

63, Subpart ZZZZ because only major sources of HAPs were subject to the Subpart at that time. However, on January 18, 2008, 40 CFR 60, Subpart ZZZZ was amended to include stationary reciprocating internal combustion engines located at area sources of HAPs.

Applicable portions of the NESHAP are the following:

- (1) 40 CFR 63.6590
- (2) 40 CFR 63.6585
- (3) 40 CFR 63.6590(a)(2)(iii)
- (4) 40 CFR 63.6590(c)

Nonapplicable portions of the NESHAP will not be included in the permit.

The requirements of 40 CFR Part 63, Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, do not apply to the emergency diesel generators and diesel fire pump engine except as otherwise specified in 40 CFR 63, Subpart ZZZZ.

- (d) There are no other National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14, 326 IAC 20 and 40 CFR Part 63) included for this proposed revision.

Compliance Assurance Monitoring (CAM)

- (e) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is not included in the permit, because the potential to emit of the source is limited to 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 proposed revision:

- (a) 326 IAC 2-8-4 (FESOP)
This revision to an existing Title V minor stationary source will not change the minor status, because the potential to emit criteria pollutants from the entire source will still be limited to less than the Title V major source threshold levels. Therefore, the source will still be subject to the provisions of 326 IAC 2-8 (FESOP). See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- (b) 326 IAC 2-2 (Prevention of Significant Deterioration(PSD))
This modification to an existing PSD minor stationary source will not change the PSD minor status, because the potential to emit of all attainment regulated pollutants from the entire source will continue to be less than the PSD major source threshold levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply. See PTE of the Entire Source After Issuance of the FESOP Revision Section above.
- (c) 326 IAC 2-4.1 (Major Sources of Hazardous Air Pollutants (HAP))
The proposed revision is not subject to the requirements of 326 IAC 2-4.1, since the unlimited potential to emit of HAPs from the new units is less than ten (10) tons per year for any single HAP and less than twenty-five (25) tons per year of a combination of HAPs.
- (d) 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.

- (e) 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.
- (f) 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.

Pneumatic Transfer System

- (g) 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)
The pneumatic conveyance systems, storage silos, and production facilities identified as EU-16 through EU-25 have the potential to emit particulate. However, pursuant to 326 IAC 6-3-1(b)(14), these facilities are exempt from the requirements of 326 IAC 6-3-2 because the potential to emit of these facilities is less than 0.551 pounds per hour. Potential to emit is calculated after the effect of the integral control devices.

Preform and Blowmolding Operation (EU-26 and EU-27)

- (h) 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes)
Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the Preform Operation and Blowmolding Operation, identified as EU-26 and EU-27, shall not exceed 4.07 pounds per hour when operating at a process weight rate of 0.99 tons per hour. The pound per hour limitation was calculated with the following equation:

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

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

Based on calculations, a control device is not needed to comply with this limit. The potential to emit particulate from the preform and blowmolding operation is 0.23 tons per year.

- (i) 326 IAC 8-1-6 (VOC Rules: General Reduction Requirements for New Facilities)
The unlimited VOC potential emissions from the preform and blowmolding operation are less than twenty-five (25) tons per year. Therefore, the preform and blowmolding operation is not subject to 326 IAC 8-1-6.

Sterilization and Filling Operation

- (k) 326 IAC 8-1-6 and 326 IAC 8-1-1(b) (VOC Rules: General Reduction Requirements for New Facilities)
The potential VOC emissions calculated for the Sterilization and Filling Operation in FESOP F095-23798-00129 (EU 14a through EU14f) were based on maximum sterilant usage. Based on this calculation, the potential VOC emissions exceeded 25 tons per year per line. In July 2008, a

stack test required by the FESOP was performed which established a source-specific VOC emission factor of 5.50 pounds of VOC per hour before the use of control equipment. Based on this stack test, the independent sterilization and filling lines never exceeded 25 tons of VOC per year per line. Therefore, the emission units (EU14a through 14b) associated with the sterilization and filling operation are not subject to the requirements of 326 IAC 8-1-6. This emission rate will also apply to the new sterilization and filling lines identified as EU-28a and EU-28b.

- (l) There are no other 326 IAC 8 Rules that are applicable to the sterilization and filling operation.

Natural Gas-Fired Boiler - Boiler 4

- (m) 326 IAC 6-2 (Particulate Emission Limitations from Sources of Indirect Heating)
 Pursuant to 326 IAC 6-2-4, the particulate from Boiler 4 shall be limited by the following:

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

Where: Pt = Pounds of particulate matter emitted per million Btu heat input (lb/MMBtu)
 Q = Total source maximum operating capacity rating in million But per hour (MMBtu/hr) heat input.

Boiler 1, Boiler 2 and Boiler 4 each have a maximum operating capacity of 99 MMBtu per hour. Boiler 3 has a maximum operating capacity of 11.80 MMBtu per hour.

$$Pt = 1.09 / (99 + 99 + 11.80 + 99)^{0.26}$$

Pt = 0.25 pound per MMBtu.

The potential particulate emissions from Boiler 4 equal 0.002 pound per MMBtu. Therefore, Boiler 4 is able to comply with this limit.

- (n) 326 IAC 12 (New Source Performance Standards)
 See Federal Rule Applicability Section of this TSD.

Natural Gas Combustion Units

- (o) 326 IAC 6-2 (Particulate Emission Limitations from Sources of Indirect Heating)
 The three (3) space heaters and natural gas-fired HVAC units are not sources of indirect heating. Therefore, these units are not subject to 326 IAC 6-2.

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

Emission Unit/Control	Operating Parameters	Frequency
EU-28a and EU28b/Scrubbers F1g and F1h	Pressure Drop	Once per day

(b) The testing requirements applicable to this proposed revision are as follows:

Testing Requirements				
Emission Unit	Control Device	Pollutant	Timeframe for Testing	Frequency of Testing
Boilers 1, 2 and 4	None	VOC and CO	180 days after initial startup	Once
EU-14a through EU14-f and EU-28a and EU-28b	Scrubbers F1a through F1h	VOC	180 days after initial startup	Once every five (5) years

The source has requested alternative emission factors for Boilers 1, 2 and 4 for the pollutants NOx, VOC and CO. The addition of Boiler 4 would have resulted in source-wide potential CO emissions greater than 100 tons per year, assuming AP-42 emission factors. The alternative CO emission factor requested for Boilers 1, 2 and 4 will result in source-wide potential CO emissions less than 100 tons per year. Therefore, a one-time test will be required to validate the alternative emission factors for VOC and CO.

In order to verify compliance with the FESOP limit, the Permittee shall perform VOC emission testing for one (1) of the wet scrubbers F1a through F1h within 60 days after achieving the maximum capacity, but not later than 180 days after initial startup, utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. The new sterilization and filling operations, identified as EU-28a and EU-28b, will be required to test pursuant to this requirement as established in FESOP F095-23798-00129. See the Proposed Changes section for the revised testing requirement condition as a result of this revision.

Proposed Changes

The following changes listed below are due to the proposed revision. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

(1) The following descriptive information has been added to Sections A.2, D.1, D.2 and D.3 as follows. All subsequent emission units have been re-lettered appropriately:

* * *

Boost Production:

- (i) **One (1) Tapioca Dextrin & Fructose Transfer Station, identified as EU-16, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#101 for particulate control, and exhausting inside the building.**
- (j) **One (1) Soya Cyclone and Hopper, identified as EU-17, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#1309 for particulate control, and exhausting inside the building.**
- (k) **Major Ingredients Cyclones and Silos, identified as EU-18, approved for construction in 2009, with a maximum capacity of 13,224 pounds per hour, using an integral fabric filter identified as Filter#309 for particulate control, and exhausting inside the building.**
- (l) **One (1) Big Bag Filling Station, identified as EU-19, approved for construction in 2009, with a maximum capacity of 13,244 pounds per hour, using an integral fabric**

filter identified as Filter#607 for particulate control, and exhausting inside the building.

- (m) Weighing Hoppers before Scanima, identified as EU-20, approved for construction in 2009, with a maximum capacity of 1,125 pounds per hour, using an integral fabric filter identified as Filter#814 for particulate control, and exhausting inside the building.**
- (n) Micro & Macro Ingredients Transfer Station, identified as EU-21, approved for construction in 2009, with a maximum capacity of 250 pounds per hour, using an integral fabric filter identified as Filter#1601 for particulate control, and exhausting inside the building.**
- (o) Pre-weight Dumping Station, identified as EU-22, approved for construction in 2009, with a maximum capacity of 20 pounds per hour, using an integral fabric filter identified as Filter#1701 for particulate control, and exhausting inside the building.**
- (p) Cocoa Dumping Station, identified as EU-23, approved for construction in 2009, with a maximum capacity of 8,816 pounds per hour, using an integral fabric filter identified as Filter#1801 for particulate control, and exhausting inside the building.**

* * *

- (x) Two (2) container sterilization and filling facilities, identified as EU28a and EU28b, approved for construction in 2009, with a combined maximum throughput capacity of 43,200 bottles per hour, using a VOC/oxidizer rinse to sanitize containers prior to filling, with emissions from each sterilization and filling facility controlled by a wet scrubber (F1g and F1h, respectively), and exhausting to stacks VF1g and VF1h, respectively.**
- (y) Polyshield Drying, identified as EU-24, approved for construction in 2009, with a maximum capacity of 110 pounds per hour, using fabric filter identified as Filter#24 for particulate control, and exhausting inside the building.**
- (z) MXD6/BB10 Drying, identified as EU-25, approved for construction in 2009, with a maximum capacity of 66 pounds per hour, using fabric filter identified as Filter#25, for particulate control, and exhausting inside the building.**
- (aa) One (1) container preform operation, identified as EU-26, approved for construction in 2009, with a maximum capacity of 44,800 preforms per hour, uncontrolled and exhausting inside the building.**
- (bb) One (1) container blowmolding operation, identified as EU-27, approved for construction in 2009, with a maximum capacity of 1,975 pounds per hour, uncontrolled and exhausting inside the building.**

* * *

- (ee) One (1) natural gas-fired boiler, identified as Boiler4, approved for construction in 2009, with a maximum heat input capacity of 99 MMBtu per hour, equipped with ultra low-NOx burners (9ppm NOx) and using flue gas recirculation for NOx control, with emissions exhausting to stack VBoiler4. Under 40 CFR 60, Subpart Dc, Boiler4 is considered to be a small industrial-commercial-institutional steam generating unit.**

(2) The following descriptive information has been added to Section A.3 as follows:

* * *

(o) **Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour, consisting of three (3) space heaters and HVAC units with a combined heat input capacity of 7.50 MMBtu per hour.**

(3) Condition D.1.5 has been revised as follows:

D.1.5 Particulate Control

- (a) The Permittee shall operate the integral cyclones, vent filters, and baghouses, and fabric filters on these facilities (EU-1a, EU-1b, EU-2a, EU-2b, EU-2c, EU-2d, EU-3, EU-4, EU-5, EU-6a through EU-6f, and EU-8a through EU-8f, **EU-16, EU-17, EU-18, EU-19, EU-20, EU-21, EU-22, EU-23, EU-24 and EU-25**) and control emissions from these facilities at all times that these facilities are in operation.
- (b) **In the event that bag failure is observed in a multi-compartment baghouse, if operations will continue for ten (10) days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.**

(4) Section D.2 has been revised as follows:

D.2.4 Volatile Organic Compound (VOC) Limitation [326 IAC 2-8] [326 IAC 2-2] [326 IAC 2-3]
Pursuant to 326 IAC 2-8-4 (FESOP):

- (a) Pursuant to 326 IAC 2-8-4, the Permittee shall limit the VOC usage at each of the container sterilization and filling facilities (EU-14a, EU-14b, EU-14c, EU-14d, EU-14e, and EU-14f) to less than 229,315 pounds per twelve month consecutive period, with compliance determined at the end of each month. **The VOC emissions, after controls, from each Container Sterilization facility (EU-14a through EU-14f and EU-28a through EU-28b) shall not exceed 1.77 pounds per hour.**
- (b) Pursuant to 326 IAC 2-8-4, the Permittee shall operate the scrubbers on each of the container sterilization and filling facilities (EU-14a, EU-14b, EU-14c, EU-14d, EU-14e, and EU-14f) and the overall VOC control (collection and removal) efficiency for each of the scrubbers shall be equal to or greater than 90%. **The minimum overall VOC control efficiency for each scrubber (Scrubber F1a through F1h) shall be 67.8%.**
- (c) Pursuant to 326 IAC 2-8-4, the VOC emissions from each of the wet scrubbers (F1a through F1f) controlling VOC emissions from the container sterilization and filling facilities (EU-14a through EU-14f) shall not exceed 2.62 pounds per hour.

Compliance with these limits, combined with the VOC emissions from all other emission units at this source, shall limit the source-wide total VOC emissions to less than 100 tons per year and shall render 326 IAC 2-7 (Part 70 Permits) not applicable.

Combined with the VOC emissions from other units, the VOC emissions from the entire source are limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset) are not applicable to this source.

D.2.65 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for EU-14a through EU-14f, **EU-28a through EU-28b**, and their control devices (F1a through **F1h F4f**).

Compliance Determination Requirements

D.2.76 VOC Control

In order to comply with Conditions D.2.4 and D.2.5, the wet scrubbers F1a through **F1h F4f** shall be in operation and control emissions from the container sterilization and filling facilities EU-14a through EU-14f **and EU-28a through EU-28b** at all times that these processes are in operation.

D.2.87 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

In order to verify compliance with Conditions D.2.4 ~~and D.2.5~~, the Permittee shall perform VOC emission testing for one (1) of the wet scrubbers F1a through **F1h F4f** within 60 days after achieving the maximum capacity, but not later than 180 days after initial startup, utilizing methods as approved by the Commissioner. These tests shall be repeated at least once every five (5) years from the date of this valid compliance demonstration. Subsequent tests shall be performed on a unit that has not been previously tested. Testing shall be conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.2.98 Parametric Monitoring

The Permittee shall monitor and record the pressure drop and flow rate of the wet scrubbers (F1a through **F1h F4f**) controlling the container sterilization and filling facilities (EU-14a through EU-14f **and EU-28a through EU-28b**) at least once per day when the associated process is in operation.

When for any one reading, the pressure drop across the scrubber is outside the normal range of 1.5 and 6.5 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. When for any one reading, the flow rate of any of the scrubbers is less than the minimum of 7.0 gallons per minute, or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Response to Excursions or Exceedances. 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 in accordance with Section C - Response to Excursions or Exceedances shall be considered a deviation from this permit.

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 at least once every six (6) months.

* * *

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.2.140 Record Keeping Requirements

(a) To document compliance with Condition D.2.9, the Permittee shall maintain daily records of pressure drop and flow rate for the wet scrubbers (F1a through **F1h F4f**) during normal operation.

~~(b) To document compliance with Condition D.2.4, the Permittee shall maintain monthly records in accordance with (1) through (3) below. Records maintained for (1) through (3) shall be taken monthly and shall be complete and sufficient to establish compliance with~~

~~the VOC usage limits established in Condition D.2.4. Records necessary to demonstrate compliance shall be available within 30 days of the end of each compliance period.~~

- ~~(1) The amount and VOC content of each sterilizing solution used on a monthly basis in each container sterilization and filling facility (EU-14a, EU-14b, EU-14c, EU-14d, EU-14e, and EU-14f). Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.~~
- ~~(2) The weight of VOCs used during each compliance period in each container sterilization and filling facility.~~
- ~~(3) The weight of VOCs emitted during each compliance period from each container sterilization and filling facility.~~

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

D.2.12 Reporting Requirements

~~A quarterly summary of the information to document compliance with Condition D.2.4 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

(5) Section D.2.3 has been revised as follows:

D.3.4 Particulate [326 IAC 6-2-4]

- (a)** Pursuant to 326 IAC 6-2-4 (**PM Particulate Emissions Limitations** for Sources of Indirect Heating), the particulate emissions from the boilers, **identified as (Boiler1 and Boiler2)**, shall each be limited to less than 0.27 pounds per million Btu heat input.
- (b)** Pursuant to **326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)**, the particulate emissions from the boiler, **identified as Boiler 4, shall be less than 0.25 pound per million Btu heat input.**

This emission limit was calculated using the following equation:

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

Where Pt = emission rate limit (lbs/MMBtu)
Q = total source heat input capacity (MMBtu/hr)

D.3.5 CO Limit [326 IAC 2-8]

- ~~(a) Pursuant to 326 IAC 2-8-4, the The CO emissions from Boiler 1 shall not exceed 8.15 pounds per hour 0.037 pound per MMBtu.~~
- ~~(b) Pursuant to 326 IAC 2-8-4, the The CO emissions from Boiler 2 shall not exceed 8.15 pounds per hour 0.037 pound per MMBtu.~~
- (c) The CO emissions from Boiler 4 shall not exceed 0.037 pound per MMBtu.**

~~Combined with the CO emissions from other units, the CO emissions from the entire source are limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program)~~

~~are not applicable to this source.~~

Compliance with the above limits, combined with the potential to emit CO from other emission units at the source, shall limit the CO from the entire source to less than 100 tons per twelve (12) consecutive month period and render 326 IAC 2-7 (Part 70 Permits) not applicable.

D.3.6 Volatile Organic Compound (VOC) Limit [326 IAC 2-8]

- (a) The VOC emissions from Boiler 1 shall not exceed 0.004 pound per MMBtu.
- (b) The VOC emissions from Boiler 2 shall not exceed 0.004 pound per MMBtu.
- (c) The VOC emissions from Boiler 4 shall not exceed 0.004 pound per MMBtu.

Compliance with the above limits, combined with the potential to emit VOC from other emission units at the source, shall limit the VOC from the entire source to less than 100 tons per twelve (12) consecutive month period and render 326 IAC 2-7 (Part 70 Permits) not applicable.

~~D.3.67~~ Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for the boilers.

Compliance Determination Requirements

D.3.8 Testing Requirement

In order to verify compliance with Conditions D.3.5 and D.3.6, the Permittee shall perform CO and VOC emission testing for Boilers 1, 2 and 4 within 60 days after achieving the maximum capacity, but not later than 180 days after initial startup, utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C - Performance Testing.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

~~D.3.79~~ Record Keeping Requirements [326 IAC 12]

- (a) Pursuant to 326 IAC 12, the Permittee shall maintain daily records of the amount of fuel used in Boiler 1, ~~and Boiler 2~~ **and Boiler 4**. This requirement is not federally enforceable.
- (b) Pursuant to 40 CFR 60, Subpart Dc, the Permittee shall maintain monthly records of the amount of fuel used in Boiler 1, ~~and Boiler 2~~ **and Boiler 4**.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

* * *

- (6) Condition D.4.5 has been removed from the permit because Boiler 3 no longer requires a CO limit to render 326 IAC 2-7 (Part 70 Permits) not applicable. All subsequent conditions have been renumbered.

~~D.4.5~~ CO Limit [326 IAC 2-8]

~~Pursuant to 326 IAC 2-8-4, the CO emissions from Boiler 3 shall not exceed 0.97 pounds per hour.~~

~~Combined with the CO emissions from other units, the CO emissions from the entire source are limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program) are not applicable to this source.~~

- (7) Pursuant to the September 6, 1996 EPA Memorandum "Calculating Potential to Emit (PTE) for Emergency Generators," generators used exclusively for emergency purposes are operationally restricted to 500 hours per year. The diesel-fired generators at the source are used exclusively for emergency purposes and therefore physically restricted to 500 operating hours per year. Section D.5 contains conditions limiting the operating hours of the emergency generators and requiring record keeping of annual operating hours. However, these conditions are not necessary because the generators, by definition, are restricted to 500 annual operating hours.

FESOP F095-23798-00129, issued March 6, 2007, does not include the National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ) because the federal rule applied only to major sources of HAPs. 40 CFR 63, Subpart ZZZZ was amended on January 18, 2008 to include area sources of HAPs. Pursuant to 40 CFR 63.6590(a)(2)(iii), the diesel-fired emergency generators and the emergency fire pump engine are new stationary reciprocating internal combustion engines. Therefore, the emergency diesel generators and the emergency fire pump are subject to 40 CFR 63, Subpart ZZZZ.

Section D.5 has been revised as follows:

~~D.5.4 VOC and CO Limit [326 IAC 2-8] [326 IAC 2-2] [326 IAC 2-3]~~

- ~~(a) Pursuant to 326 IAC 2-8-4, the emergency generators (Gen1, Gen2, and Gen3) and the emergency fire pump engine (Pump1) shall each be limited to 500 hours of operation per twelve consecutive month period.~~
- ~~(b) Pursuant to 326 IAC 2-8-4, the VOC emissions from each of the emergency generators (Gen1, Gen2, and Gen3) shall not exceed 0.10 pounds per hour.~~
- ~~(c) Pursuant to 326 IAC 2-8-4, the CO emissions from each of the emergency generators (Gen1, Gen2, and Gen3) shall not exceed 1.2 pounds per hour.~~

~~Combined with the VOC and CO emissions from other units, the VOC and CO emissions from the entire source are limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 (Part 70 Program), 326 IAC 2-2 (PSD), and 326 IAC 2-3 (Emission Offset) are not applicable to this source.~~

~~Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]~~

~~D.5.5 Record Keeping Requirement~~

- ~~(a) To document compliance with Condition D.5.4, the Permittee shall maintain records of the hours of operation of the emergency generators (Gen1, Gen2, and Gen3) and fire pump engine (Pump1).~~
- ~~(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit~~

~~D.5.6 Reporting Requirement~~

~~A quarterly summary of the information to document compliance with Condition D.5.4 shall be submitted to the addresses listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported. The report submitted by the Permittee does require the certification by an "authorized individual" as defined by 326 IAC 2-1.1-1(1).~~

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

D.5.74 General Provisions Relating to New Source Performance Standards [326 IAC 12-1] [40 CFR Part 60, Subpart A]

-
- (a) Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR Part 60 Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1 for the emergency generators (Gen1, Gen2, and Gen3) and the emergency fire pump engine (Pump1), except as otherwise specified in 40 CFR Part 60, Subpart IIII.
- (b) Pursuant to 40 CFR 60.19, the Permittee shall submit all required notifications and reports to:

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

and

~~Anderson Office of Air Management
P.O. Box 2100
120 East 8th Street
Anderson, Indiana 46014~~

D.5.85 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [40 CFR Part 60, Subpart IIII] [326 IAC 12]

Pursuant to 40 CFR Part 60, Subpart IIII, the Permittee shall comply with the provisions of Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, which are incorporated by reference as 326 IAC 12, for the emergency generators (Gen1, Gen2, and Gen3) and the emergency fire pump engine (Pump1), as follows:

* * *

D.5.6 National Emission Standards for Stationary Reciprocating Internal Combustion Engines [40 CFR 63, Subpart ZZZZ] [326 IAC 20-82]

Pursuant to 40 CFR 63, Subpart ZZZZ, the Permittee shall comply with the provisions of National Emission Standards for Stationary Reciprocating Internal Combustion Engines, which are incorporated by reference as 326 IAC 20-82, for the emergency generators (Gen1, Gen2 and Gen3) and the emergency fire pump engine (Pump1) as follows:

Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Source: 69 FR 33506, June 15, 2004, unless otherwise noted.

What This Subpart Covers

§ 63.6580 What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

§ 63.6585 Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008]

§ 63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source.

(a) *Affected source.* An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(2) *New stationary RICE.* (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.

(iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(c) *Stationary RICE subject to Regulations under 40 CFR Part 60.* An affected source that is a new or reconstructed stationary RICE located at an area source, or is a new or reconstructed stationary RICE located at a major source of HAP emissions and is a spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of less than 500 brake HP, a spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of less than 250 brake HP, or a 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP, a stationary RICE with a site rating of less than or equal to 500 brake HP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP, or a compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP, must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008]

(8) The requirement to keep records of hours of operation for the emergency diesel generators has been removed. The requirement to keep records of VOC usage for EU-14a through EU-14f has

been removed. The quarterly reports associated with these deleted conditions have been removed as follows:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 and Anderson Office of Air Management**

FESOP Quarterly Report

Source Name: _____ Nestle USA, Inc. _____
 Source Address: _____ 4300 West 73rd Street, Anderson, Indiana 46013 _____
 Mailing Address: _____ 800 North Brand Blvd., Glendale, CA 91203 _____
 FESOP Permit No.: _____ F095-23798-00129 _____
 Facility: _____ Filling Operations (EU-14a, EU-14b, EU-14c, EU-14d, EU-14e, and EU-14f) _____
 Parameter: _____ VOC usage in each facility _____
 Limit: _____ Less than 229,315 pounds in each facility per twelve (12) month consecutive period, with compliance determined at the end of each month. _____

QUARTER: _____ YEAR: _____

Month	Facility	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months	12 Month Total
Month 1	EU-14a			
	EU-14b			
	EU-14c			
	EU-14d			
	EU-14e			
	EU-14f			
Month 2	EU-14a			
	EU-14b			
	EU-14c			
	EU-14d			
	EU-14e			
	EU-14f			
Month 3	EU-14a			
	EU-14b			
	EU-14c			
	EU-14d			
	EU-14e			
	EU-14f			

_____ No deviation occurred in this quarter.

_____ Deviation/s occurred in this quarter.

_____ Deviation has been reported on: _____

Submitted by: _____

Title / Position: _____

Signature: _____
 Date: _____
 Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR QUALITY
 COMPLIANCE DATA SECTION
 and Anderson Office of Air Management**

FESOP Quarterly Report

Source Name: _____ Nestle USA, Inc. _____
 Source Address: _____ 4300 West 73rd Street, Anderson, Indiana 46013 _____
 Mailing Address: _____ 800 North Brand Blvd., Glendale, CA 91203 _____
 FESOP Permit No.: _____ F095-23798-00129 _____
 Facility: _____ Gen1, Gen2, Gen3, and Pump1 _____
 Parameter: _____ Hours of Operation _____
 Limit: _____ Less than 500 hours of operation each per twelve (12) month consecutive period,
 with compliance determined at the end of each month.

YEAR: _____

Month	Facility	Column 1	Column 2	Column 1 + Column 2
		This Month	Previous 11 Months	12-Month Total
Month 1	Gen1			
	Gen2			
	Gen3			
	Pump1			
Month 2	Gen1			
	Gen2			
	Gen3			
	Pump1			
Month 3	Gen1			
	Gen2			
	Gen3			
	Pump1			

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

Submitted by: _____
 Title / Position: _____
 Signature: _____
 Date: _____
 Phone: _____

~~Attach a signed certification to complete this report.~~

Upon further review, IDEM, OAQ has decided to make the following changes to the permit. Deleted language appears as ~~strikethrough~~ text and new language appears as **bold** text:

- (1) Local agencies no longer have effective authority to implement state and federal requirements for IDEM. Therefore, IDEM has removed all references to local agencies from the permit. The revised permit specifies that all reports, notices, applications, and any other required submittals shall be submitted to IDEM. The Permittee should note that the local agency could have its own requirements beyond the state and federal requirements contained in the permit. Please contact the local agency for further information.

In addition to removing all references to local agencies from the permit, the following condition has been revised to remove language that no longer has legal basis in an underlying state or federal requirement.

* * *

B.6 Enforceability [326 IAC 2-8-6] [IC 13-17-12]

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

~~(b)~~ ~~Unless otherwise stated, all terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by AOAM.~~

* * *

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16][326 IAC 2-1.1-7]

(a) The Permittee shall pay annual fees to IDEM, OAQ ~~and AOAM~~ within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ ~~and AOAM~~ the applicable fee is due April 1 of each year.

* * *

- (2) Several of IDEM's branches and sections have been renamed. Therefore, IDEM has updated the addresses listed in the permit. References to "Permit Administration and Development Section" and the "Permits Branch" have been changed to "Permit Administration and Support Section". References to "Asbestos Section", "Compliance Data Section", "Air Compliance Section", and "Compliance Branch" have been changed to "Compliance and Enforcement Branch". The permit has been revised as follows:

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

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

- (3) All occurrences of IDEM mailing addresses have been revised to include a mail code (MC) as follows:

Compliance and Enforcement Branch: **MC 61-53 IGCN 1003**
Permit Administration and Support Section: **MC 61-53 IGCN 1003**
Technical Support and Modeling Section: **MC 61-50 IGCN 1003**

- (4) IDEM has begun implementing a new procedure and will no longer list the name or title of the Authorized Individual (A.I.) in the permit document. Section A.1 has been updated as follows:

~~Authorized Individual: _____ Factory Manager~~

- (5) Section A.1 has been revised to indicate that Madison County is now in attainment for the 8-hour ozone standard. Section A.1 is updated as follows:

Source Location Status: ~~Nonattainment area for 8-hour ozone~~
Attainment area for all other criteria pollutants

- (6) In order to correct a typographical error, Condition C.15(b) has been revised from the terminology "one-hundred and twenty" to "one hundred twenty" as follows:

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one- hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.

- (7) The Source Address, Mailing Address and General Source Phone Number have been revised in Section A.1 as follows:

Source Address: 43001 West 73rd Street, Anderson, Indiana 46013
Mailing Address: ~~800 North Brand Blvd., Glendale, CA 91203~~
4301 West 73rd Street, Anderson, Indiana 46013
General Source Phone Number: ~~(818) 549-5746~~ **(765) 778-6019**

- (8) Section A.3 has been revised as follows:

A.3 Insignificant Activities [326 IAC 2-7-1(21)][326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities:

. . .

- (d) Activities associated with the treatment of wastewater streams ~~with an oil and grease content less than or equal to one percent (1%) by volume.~~

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 March 6, 2009.

The construction and operation of this proposed revision shall be subject to the conditions of the attached proposed FESOP Significant Revision No. 095-27579-00129. The staff recommends to the Commissioner that this FESOP Significant Revision be approved.

IDEM Contact

- (a) Questions regarding this proposed permit can be directed to Anne-Marie C. Hart 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 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

**Appendix A: Emission Calculations
Emissions Summary**

Company Name: Nestle USA, Inc.

Address: 4300 West 73rd Street, Anderson, Indiana 46013

Permit #: 095-27579-00129

Reviewer: Anne-Marie C. Hart

Date: April 14, 2009

Potential to Emit Before Limits and Controls (tons/year)								
	Emission Unit	PM	PM10	SO ₂	NOx	CO	VOC	HAPs
Current Permit	Pneumatic Transfer (EU-1 - EU-11, EU-15)	3.15	3.15	0.0	0.0	0.0	0.0	0.0
	Forming (EU-12 - EU-13)	1.24	1.24	0.0	0.0	0.0	23.4	0.007
	Emergency Generators (Gen1 - Gen3)	0.98	0.98	0.91	13.74	0.42	0.06	0.02
	Fire Pump Engine (Pump1)	0.10	0.10	0.09	1.42	0.31	0.11	0.00
	Boiler3	0.10	0.39	0.03	2.53	4.26	0.28	0.10
	Heaters, HVAC	0.49	1.97	0.16	26.0	21.8	1.43	0.49
	Totals	6.06	7.83	1.19	43.67	26.80	25.24	0.61
Modification	Container Sterilization and Filling (EU-14a-f), Lines 1-6	0.00	0.00	0.00	0.00	0.00	144.28	3.59
	Boiler1	0.81	3.23	0.26	4.77	16.04	1.73	0.80
	Boiler2	0.81	3.23	0.26	4.77	16.04	1.73	0.80
Boost Source	Pneumatic Transfer (EU-16- EU-25)	715.12	715.12	0.00	0.00	0.00	0.00	0.00
	Forming (EU-26 - EU-27)	0.23	0.23	0.0	0.0	0.0	4.33	0.001
	Container Sterilization and Filling (EU-28a-b), Lines 7-8	0.0	0.0	0.0	0.0	0.0	48.09	1.2
	Boiler4	0.81	3.23	0.26	4.77	16.04	1.73	0.80
	Heaters, HVAC	0.06	0.24	0.02	3.22	2.71	0.18	0.06
Totals	723.89	733.12	1.97	61.20	77.64	227.32	7.87	

Potential to Emit After Limits and Controls (tons/year)								
	Emission Unit	PM	PM10	SO ₂	NOx	CO	VOC	HAPs
Current Permit F095-23798- 00129 issued March 6, 2007	Pneumatic Transfer (EU-1 - EU-11, EU-15)	3.15	3.15	0.0	0.0	0.0	0.0	0.00
	Forming (EU-12 - EU-13)	1.24	1.24	0.0	0.0	0.0	23.4	0.01
	Emergency Generators (Gen1 - Gen3)	0.98	0.98	0.91	13.74	0.42	0.06	0.02
	Fire Pump Engine (Pump1)	0.10	0.10	0.09	1.42	0.31	0.11	0.00
	Boiler3	0.10	0.39	0.03	2.53	4.26	0.28	0.10
	Heaters, HVAC	0.49	1.97	0.16	26.0	21.8	1.43	0.49
	Totals	6.06	7.83	1.19	43.67	26.80	25.24	0.61
Modification	Container Sterilization and Filling (EU-14a-f), Lines 1-6	0.00	0.00	0.00	0.00	0.00	46.52	1.16
	Boiler1	0.81	3.23	0.26	4.77	16.04	1.73	0.80
	Boiler2	0.81	3.23	0.26	4.77	16.04	1.73	0.80
Boost Source	Pneumatic Transfer (EU-16- EU-25)	0.72	0.72	0.00	0.00	0.00	0.00	0.00
	Forming (EU-26 - EU-27)	0.23	0.23	0.00	0.00	0.00	4.33	0.001
	Container Sterilization and Filling (EU-28a-b), Lines 7-8	0.00	0.00	0.00	0.00	0.00	15.51	0.39
	Boiler4	0.81	3.23	0.26	4.77	16.04	1.73	0.80
	Heaters, HVAC	0.06	0.24	0.02	3.22	2.71	0.18	0.06
Totals	9.49	18.71	1.97	61.20	77.64	96.97	4.63	

**Appendix A: Emission Calculations
Sterilization and Filling Operations**

Company Name: Nestle USA, Inc.
Address: 4300 West 73rd Street, Anderson, Indiana 46013
Permit #: 095-27579-00129
Reviewer: Anne-Marie C. Hart
Date: April 14, 2009

Emission Unit (ID#)	Material	PTE of VOC Before Controls (lb/hr)	PTE of VOC Before Controls (tons/year)	PTE of HAPs (Methanol) Before Controls and Limits (lb/hr)	PTE of HAPs (Methanol) Before Controls (tons/year)	Control Device	Test Control Efficiency (%)	PTE of VOC After Controls and Limits (lb/hr)	PTE of VOC After Controls (tons/year)	PTE of HAPs (Methanol) After Controls and Limits (lb/hr)	PTE of HAPs (Methanol) After Controls (tons/year)
Filling (EU-14a)	ENVIRO SAN	5.49	24.05	0.14	0.60	Scrubber F1a	68%	1.77	7.75	0.044	0.19
Filling (EU-14b)	ENVIRO SAN	5.49	24.05	0.14	0.60	Scrubber F1b	68%	1.77	7.75	0.044	0.19
Filling (EU-14c)	ENVIRO SAN	5.49	24.05	0.14	0.60	Scrubber F1c	68%	1.77	7.75	0.044	0.19
Filling (EU-14d)	ENVIRO SAN	5.49	24.05	0.14	0.60	Scrubber F1d	68%	1.77	7.75	0.044	0.19
Filling (EU-14e)	ENVIRO SAN	5.49	24.05	0.14	0.60	Scrubber F1e	68%	1.77	7.75	0.044	0.19
Filling (EU-14f)	ENVIRO SAN	5.49	24.05	0.14	0.60	Scrubber F1f	68%	1.77	7.75	0.044	0.19
Total			144.28		3.59			46.52			1.16
Boost Process Filling (EU-28a)	ENVIRO SAN	5.49	24.05	0.14	0.60	Scrubber F1g	68%	1.77	7.75	0.044	0.19
Boost Process Filling (EU-28b)	ENVIRO SAN	5.49	24.05	0.14	0.60	Scrubber F1h	68%	1.77	7.75	0.044	0.19
Total			48.09		1.20			15.51			0.39

MSDS for ENVIRO SAN shows that this product is 31% Acetic Acid and 15.2% Peroxyacetic Acid by weight. Emissions from the container sterilization and filling facilities (EU-14a-f and EU-25a-b; Lines 1 through 8) will be controlled with wet scrubbers (F1a - F1h) and vent outside the building (VF1a - VF1h). Emission factor calculated using IDEM approved stack test data from 2008. See TSD Appendix B for Methodology.

METHODOLOGY

PTE of VOC After Controls (tons/year) = Emission Rate in Outlet (lb/hr) x 8,760 hours/year x 1 ton/2000 lbs
PTE of VOC Before Controls (tons/year) = Emission Rate in Inlet (lb/hr) x 8,760 hours/year x 1 ton/2000 lbs
PTE of HAP After Controls (tons/year) = Emission Rate in Outlet (lb/hr) x 8,760 hours/year x 1 ton/2000 lbs
PTE of HAP Before Controls (tons/year) = PTE of HAP After Controls (tons/year) x 1/(1-Removal Eff. (%))

ASSUMPTIONS

Sterilization in place (SIP) cycle 2 hrs
Production run 8 hrs
Maximum EnviroSan usage (Lines 1-6) = 60 L/hr/line
Maximum EnviroSan usage (Lines 7-8) = 86.4 L/hr
Maximum VOC exhaust rate (see TSD Appendix B) 1.77 lb VOC/hr
Maximum VOC inlet rate (see TSD Appendix B) 5.49 lb VOC/hr
VOC Removal Eff.= (VOC inlet rate (lb/hr) - VOC outlet rate (lb/hr))/VOC inlet rate (lb/hr) 68 %
HAP (Methanol) exhaust rate (see TSD Appendix B) 0.044 lb HAP/hr

Worst-case emission factor will be used for each line.

Appendix A: Emission Calculations
Particulate Emissions From Pneumatic Conveyance of Materials Between Emissions Units

Company Name: Nestle USA, Inc.
 Address: 4300 West 73rd Street, Anderson, Indiana 46013
 Permit #: 095-27579-00129
 Reviewer: Anne-Marie C. Hart
 Date: April 14, 2009

Emissions from Materials Transfer Between Emission Units. Control Devices are Integral to Process.

Emission Unit (ID#)	Maximum Throughput (lbs/hour)	Control Device	Air Flow Rate (acfm)	Number of Control Devices	Outlet Grain Loading* (g/ascf)	Control Efficiency (%)	PTE of PM/PM10 Before Control (lbs/hour)	PTE of PM/PM10 Before Control (tons/year)	PTE of PM/PM10 After Control (lbs/hour)	PTE of PM/PM10 After Control (tons/year)	326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hour)
Tapioca Dextrin + Fructose Dumping Station (EU-16)	13,224	Filter #101	300	1	4.4E-03	99.9%	11.24	49.22	0.01	0.05	27.7
Soya Cyclone and Hopper (EU-17)	13,224	Filter #1309	60	1	4.4E-03	99.9%	2.25	9.84	0.002	0.01	27.7
Major Ingredients Cyclones and Silos (EU-18)	13,224	Filter#309	60	5	4.4E-03	99.9%	11.24	49.22	0.01	0.05	27.7
Big Bag Filling Station (EU-19)	13,224	Filter #607	25	1	4.4E-03	99.9%	0.94	4.10	0.001	0.004	27.7
Weighing Hoppers Before Scanima (EU-20)	1,125	Filter#814	60	2	4.4E-03	99.9%	4.49	19.69	0.00	0.02	11.6
Micro and Macro Ingredients Dumping Station (EU-22)	250	Filter#1601	300	1	4.4E-03	99.9%	11.24	49.22	0.01	0.05	1.02
Pre-weigh Dumping Station (EU-22)	20	Filter#1701	300	2	4.4E-03	99.9%	22.47	98.43	0.02	0.10	0.2
Cocoa Dumping Station (EU-23)	8,816	Filter #1810	300	1	4.4E-03	99.9%	11.24	49.22	0.01	0.05	11.1
Polysield Drying (EU-24)	110	Filter#24	1177	1	4.4E-03	99.9%	44.09	193.09	0.04	0.19	0.6
MX Nylon/Drying (EU-25)	66	Filter#25	1177	1	4.4E-03	99.9%	44.09	193.09	0.04	0.19	0.42
Total										0.72	

Outlet Grain Loading is conservatively estimated by source to be 4.4E-3 g/ascf based on manufacturer's specifications for these control devices.

Emissions after controls represents the potential to emit for pneumatic conveyance of materials because these devices are deemed integral to process.

Methodology

PTE of PM/PM10 Controlled (lbs/hour) = Air Flow Rate (acfm) x Outlet Grain Loading (gr/ascf) x Number of Control Devices x 60 (min/hour) x 1/7000 (lb/gr)

PTE of PM/PM10 Controlled (tons/year) = Air Flow Rate (acfm) x Outlet Grain Loading (gr/ascf) x Number of Control Devices x 60 (min/hour) x 1/7000 (lb/gr) x 8760 (hour/year) x 1 ton/2000 lbs

PTE of PM/PM10 Uncontrolled (lbs/hour) = PTE of PM/PM10 Controlled (lbs/hour) x 1/(1-Control Eff. (%))

PTE of PM/PM10 Uncontrolled (tons/year) = PTE of PM/PM10 Controlled (tons/year) x 1/(1-Control Eff. (%))

326 IAC 6-3-2 Allowable PM Emission Rate (lbs/hour) = 55 x (Maximum Throughput (lbs/hour) x 1 ton/2,000 lbs)^0.11-40 OR 4.1 x (Maximum Throughput (lbs/hour) x 1 ton/2,000 lbs)^0.67

Appendix A: Emission Calculations
Particulate, VOC, and HAP Emissions From the Boost Source PET Preforming (EU-26) and Blowmolding (EU-27)

Company Name: Nestle USA, Inc.
 Address: 4300 West 73rd Street, Anderson, Indiana 46013
 Permit #: 095-27579-00129
 Reviewer: Anne-Marie C. Hart
 Date: April 14, 2009

Emissions Unit ID	Material Type	Maximum Throughput Rate (lbs/hour)	VOC Emission Factor (lbs/MMlb)	PM/PM10 Emission Factor (lbs/MMlb)	Aldehyde Emission Factor (lbs/MMlb)	PTE of VOC (tons/year)	PTE of PM/PM10 (tons/year)	PTE of Aldehydes (tons/year)
EU-26	PET	1,975	500	26.6	0.15	4.3	0.23	0.001
EU-27								
Totals						4.3	0.23	0.001

Emission factors represent emissions before controls. VOC, HAP, and particulate emissions are uncontrolled.

Emission factor for VOC is obtained from Wisconsin DNR, and approved by IDEM, December 5, 1997.

Emission factors for PM/PM10 and Aldehydes are from "Development of Emission Factors for Polyethylene Processing", Journal of Air and Waste Management Association, June, 1996.

METHODOLOGY

$$\text{PTE (tons/year)} = \text{Maximum Process Rate (lbs/hour)} \times \text{Emission Factor (lbs/1,000,000 lb)} \times 8760 \text{ hours/year} \times 1 \text{ ton/2000 lbs}$$

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Nestle USA, Inc.
 Address City IN Zip: 4300 West 73rd Street, Anderson, Indiana 46013
 Permit Number: 095-27579-00129
 Plt ID: 095-00129
 Reviewer: Anne-Marie C. Hart
 Date: April 14, 2009

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

7.5	
5.8	HVU-25-31
1.1	RTU-26, 27-34
0.6	GIJ-16-20

65.7

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100	5.5	84
				**see below		
Potential Emission in tons/yr	0.06	0.25	0.02	3.29	0.18	2.76

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 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

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	6.899E-05	3.942E-05	2.464E-03	5.913E-02	1.117E-04

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.643E-05	3.614E-05	4.599E-05	1.248E-05	6.899E-05

Total HAPs 6.199E-02

Methodology is the same as above.

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

**Appendix A: Emissions Calculations
Natural Gas Combustion Only
MM BTU/HR <100**

Company Name: Nestle USA, Inc.
Address City IN Zip: 4300 West 73rd Street, Anderson, Indiana 46013
Permit Number: 095-27579-00129
 095-00129
Reviewer: Anne-Marie C. Hart
Date: April 14, 2009

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

99.0

867.2

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx (lb/MMBtu)	VOC (lb/MMBtu)	CO (lb/MMBtu)
	1.9	7.6	0.6	0.011	0.004	0.037
Potential Emission in tons/yr	0.82	3.30	0.26	4.77	1.73	16.04

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 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

Emission Factor in lb/MMcf	HAPs - Organics				
	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	9.106E-04	5.203E-04	3.252E-02	7.805E-01	1.474E-03

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.168E-04	4.770E-04	6.071E-04	1.648E-04	9.106E-04

Total 8.183E-01

Methodology is the same as page 1.

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

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Company Name: Nestle USA, Inc.
 Address City IN Zip: 4300 West 73rd Street, Anderson, Indiana 46013
 Permit Number: 095-27579-00129
 095-00129
 Reviewer: Anne-Marie C. Hart
 Date: April 14, 2009

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

99.0

867.2

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx (lb/MMBtu)	VOC (lb/MMBtu)	CO (lb/MMBtu)
	1.9	7.6	0.6	0.011	0.004	0.037
Potential Emission in tons/yr	0.8	3.3	0.3	4.77	1.73	16.04

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

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 MMBtu = 1,000,000 Btu
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Potential Emission in tons/yr	9.106E-04	5.203E-04	3.252E-02	7.805E-01	1.474E-03

Emission Factor in lb/MMcf	HAPs - Metals				
	Lead	Cadmium	Chromium	Manganese	Nickel
	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.168E-04	4.770E-04	6.071E-04	1.648E-04	9.106E-04

Total 8.183E-01

Methodology is the same as page 1.

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 Permit Number: 095-27579-00129
 095-00129
 Reviewer: Anne-Marie C. Hart
 Date: April 14, 2009

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

99.0

867.2

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

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	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	2.168E-04	4.770E-04	6.071E-04	1.648E-04	9.106E-04

Total 8.183E-01

Methodology is the same as page 1.

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

VOC EMISSIONS CALCULATION

Testing of Wet Scrubber (Line 1):

Actual operating rate during testing = 1,080 lbs of plastic containers/hour

Actual EnviroSan usage = 45 L/hr

The worst-case emission factor will be used for each line. Controlled emission factor = 1.77 lb/hr.
Uncontrolled emission factor = 5.49 lb/hr.

Assumptions

- Maximum operating rate = 1,777 lbs of plastic containers/hour
- Maximum EnviroSan usage = 86.4 L/hr

For the purposes of calculating a VOC emission rate that is representative of production activities, the Permittee has assumed that SIP runs are 2 hours and Production runs are 8 hours. Thus, the Permittee has developed the following time-weighted average VOC emission rate:

1) VOC in exhaust (assume all Peroxyacetic Acid (PAA) converted to Acetate)

$$\text{Production (3 runs): } \frac{0.67 \text{ lb VOC}}{\text{hr}}$$

$$\text{SIP (2 runs): } \frac{0.11 \text{ lb VOC}}{\text{hr}}$$

$$\text{Time weighted average: } \frac{\left[\frac{0.67 \text{ lb VOC} * 8 \text{ hr}}{\text{hr}} + \frac{0.11 \text{ lb VOC} * 2 \text{ hr}}{\text{hr}} \right]}{10 \text{ hr}}$$

$$\text{Time weighted average: } \frac{0.56 \text{ lb VOC}}{\text{hr}}$$

Maximum Time weighted average VOC in exhaust:

$$\frac{0.56 \text{ lb VOC}}{\text{hr}} * \frac{1,777 \text{ lbs} / \text{hr}}{1,080 \text{ lbs} / \text{hr}} * \frac{86.4 \text{ L} / \text{hr}}{45 \text{ L} / \text{hr}} = \frac{1.77 \text{ lb VOC}}{\text{hr}}$$

2) VOC in inlet

Production (3 runs): 0.7 lb THC as $\frac{C}{hr}$

SIP (2 runs): 0.48 lb THC as $\frac{C}{hr}$

Time weighted average: $\frac{[0.7 \text{ lb THC as } \frac{C}{hr} * 3 \text{ hr} + 0.48 \text{ lb THC as } \frac{C}{hr} * 2 \text{ hr}]}{10 \text{ hr}}$

Time weighted average: 0.656 lb $\frac{THC}{hr}$

Maximum Time weighted average VOC in inlet:

$$0.656 \text{ lb } \frac{THC}{hr} * \frac{1,777 \text{ lbs/hr}}{1,080 \text{ lbs/hr}} * \frac{86.4 \text{ L/hr}}{45 \text{ L/hr}} = 2.07 \text{ lb } \frac{THC}{hr}$$

$$VOC = \frac{(THC + MW \text{ VOC})}{[MW C \left(\frac{FAA}{HAC} \right)]}$$

$$VOC = (2.07 \text{ lb THC as } \frac{C}{hr}) * (63.7 \text{ g } \frac{VOC}{mol}) / (24 \text{ g } \frac{C}{mol}) = 5.49 \text{ lb } \frac{VOC}{hr}$$

Where THC = Total Hydrocarbons

3) Removal Efficiency

$$\text{Efficiency} = \frac{5.49 \text{ lb VOC/hr} - 1.77 \text{ lb VOC/hr}}{5.49 \text{ lb VOC/hr}} = 68\%$$

For the HAP (methanol) emission rates:

Methanol emission rate (SIP and production) = 0.014 lb HAP/hr

Methanol emission rate:

$$\frac{0.014 \text{ lb HAP}}{hr} * \frac{1,777 \text{ lbs/hr}}{1,080 \text{ lbs/hr}} * \frac{86.4 \text{ L/hr}}{45 \text{ L/hr}} = \frac{0.044 \text{ lb HAP}}{hr}$$

Methanol emission rate (0.014 lb HAP/hr) from ENVIRO SAN MSDS



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: Greg Chastain
Nestle USA, Inc.
4300 W 73rd St
Anderson, IN 46013

DATE: July 6, 2009

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

SUBJECT: Final Decision
First Significant Permit Modification
095-27579-00129

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:
Erik Petrovskis - GeoSyntec Consultants
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



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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Thomas W. Easterly
Commissioner

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Toll Free (800) 451-6027
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July 6, 2009

TO: Anderson Public Library

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

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

Applicant Name: Nestle USA, Inc.
Permit Number: 095-27579-00129

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	GHOTOPP 7/6/2009 Nestle USA, Inc. 095-27579-00129 Final		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204		

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1		Greg Chastain Nestle USA, Inc. Nestle USA, Inc 4300 W 73rd St Anderson IN 46013 (Source CAATS) via confirmed delivery										
2		Madison County Commissioners 16 E. 9th Suite 104 Anderson IN 46016 (Local Official)										
3		Anderson Public Library 111 E. 12th St. Anderson IN 46016-2701 (Library)										
4		Anderson Town Council & Mayors Office P.O. Box 2100 Anderson IN 46018 (Local Official)										
5		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)										
6		Madison County Health Department 206 E 9th St Anderson IN 46016-1512 (Health Department)										
7		Alexandria Town Council 125 N. Wayne St. Alexandria IN 46001 (Local Official)										
8		Mr. Erik Petrovskis GeoSyntec Consultants 8120 Main Street Dexter MI 48130 (Consultant)										
9		Mr. Gary McKinney Anderson Brownfields Coordinator 120 E. 8th St. Anderson IN 46016 (Local Official)										
10		Michael J. E. Widing Planning and Building 120 East 8th Street, P.O. Box 2100 Anderson IN 46018 (Affected Party)										
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