



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

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

TO: Interested Parties / Applicant

DATE: August 3, 2009

RE: Danisco USA, Inc. / 167-28233I-00138

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

Notice of Decision: Approval - Effective Immediately

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

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

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

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

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

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

Enclosures
FNPER.dot12/03/07



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Mr. Larry Tock
Danisco USA, Inc.
11 West Litesse Drive
Terre Haute, IN 47802

August 3, 2009

Re: Interim Minor Source Modification Petition Approval
167-28233I-00138

Dear Mr. Tock:

On July 16, 2009, the Office of Air Quality (OAQ) received an interim Minor Source Modification petition from Danisco USA, Inc, located at 11 West Litesse Drive, in Terre Haute, Indiana. Based on the data and information submitted in the petition and the provisions in 326 IAC 2-13-1, this interim Minor Source Modification petition is hereby approved for:

One (1) natural gas steam boiler, identified as Boiler #10, with a maximum heat input capacity of 48.5 million (MM) Btu per hour utilizing low NOx burners for control and exhausting through stack #1.

Detailed conditions will be specified in the final Minor Source Modification 167-28233-00138. This interim Minor Source Modification expires on the effective date of the final Minor Source Modification. This interim Minor Source Modification may be revoked after its effective date upon a written finding by the OAQ that any of the reasons for denial in 326 IAC 2-13-1(h) exist or if the final Minor Source Modification is denied. The facilities subject to this approval may not operate until the final Minor Source Modification is issued by OAQ.

If you have any questions regarding this interim Minor Source Modification petition, please contact Teresa Freeman, OAQ, 100 North Senate Avenue, MC 61-53, Indianapolis, Indiana, 46204-2251, or call at (800) 451-6027, and ask for Teresa Freeman or extension 4-1243, or dial (317) 234-1243.

Sincerely,

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

Enclosure: Interim Permit Evaluation (3 pages)

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cc: File – Vigo County
Vigo County Health Department
U.S. EPA, Region V
Air Compliance Inspector – Cynthia Holladay
Compliance Data Section
Permit Reviewer – Teresa Freeman
PASS
Charles L. Nichols, Plant Manager, 11 West Litesse Drive, in Terre Haute, Indiana 47802
David Jordan, P.E., Fidelity Plaza, Tower Two, 11350 N. Meridian, Suite 320, Indianapolis, IN 46032

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

Interim Minor Permit Revision / Minor Source Modification Evaluation Sheet

Company Name: Danisco USA, Inc
Location: 11 West Litesse Drive, Terre Haute, Indiana 47802 Permit No: 167-282331-00138
Permit Reviewer: Teresa Freeman Date Receipt of Application: 7/16/09
Date of review: 7/27/09
Description of the interim construction: installation of a 48.5 MM/Btu boiler
Date the Application was received + 19 days = August 4, 2009

Interim Petition Applicability: 326 IAC 2-13-1

- (a) Existing Source with valid permit;
- (b) Exemptions:
 - (1) construction of a PSD source or PSD modification;
 - (2) construction or modification in nonattainment area that would emit those pollutants for which the nonattainment designation is based.
 - (3) any modification subject to 326 IAC 2-4.1.
- (c) Approve or deny the interim minor permit revision or minor source modification in writing within 19 calendar days, or it becomes the enforceable interim minor permit revision or minor source modification. [326 IAC 2-13-1(d)]

Instructions: Check (✓) appropriate answers and make a recommendation.

1. Did the applicant submit a written petition for an interim minor permit revision or minor source modification?
 - Yes Go to question 2.
 - No Ignore verbal request.

2. Did the applicant pay the applicable interim permit fee? \$625 for TV, FESOP, and SSOA. \$500 for MSOP.
 - Yes Go to question 3.
 - No Deny the application, pursuant to 326 IAC 2-13-1(c)(1).

Comments: _____

3. Did the applicant state acceptance of federal enforceability of an interim minor permit revision or minor source modification?
 - Yes Go to question 4.
 - No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(D).

4. Did the applicant or its authorized agent sign the application?
 - Yes Go to question 5.
 - No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(E).

5. Did the applicant submit a notarized affidavit stating that the applicant will proceed at its own risk (if the interim minor permit revision or minor source modification is issued), including, but not limited to:
- (a) Financial risk,
 - (b) Risk that additional emission controls may be required,
 - (c) Risk that the final minor permit revision or minor source modification may be denied.
- Yes Go to question 6.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(F).
6. Did the applicant begin construction prior to submitting the interim minor permit revision or minor source modification application?
- Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(6).
 No Go to question 7.
7. What is the type of the interim construction?
- New Source Deny the application, pursuant to 326 IAC 2-13-1(a)
 Modification to an existing source Go to question 8.
8. Did the applicant present data in the interim minor permit revision or minor source modification that is sufficient to determine PSD, NSPS, NESHAP, and state rule compliance?
- Yes Go to question 9.
 No Deny the application pursuant to:
326 IAC 2-13-1(c)(2)(B), for PSD;
326 IAC 2-13-1(c)(2)(C), for NSPS or NESHAP;
326 IAC 2-13-1(c)(2)(C), for state rules.
9. Is the proposed modification to be located in a nonattainment area?
- Yes Go to question 10.
 No Go to question 11.
- County: Vigo County
- Comments: _____
10. Will the proposed modification emit the pollutant for which the area is nonattainment in quantities greater than the significant levels?
- Yes Deny the application, pursuant to 326 IAC 2-13-1(a)(2).
 No Go to question 11.
11. Did the petition include a complete description of the process?
- Yes Go to question 12.
 No Deny the petition, pursuant to 326 IAC 2-13-1(c)(2).
12. Did the interim minor permit revision or minor source modification petition contain conditions accepting either emission controls (baghouse, afterburners, scrubbers, etc.) or enforceable limits or other suitable restriction to avoid PSD applicability; as well as control parameters (incinerator operating temperature, baghouse pressure drop, etc.)? The specific limits must be explicitly spelled out (i.e.: The gas consumption of the boiler shall not exceed 29 million cubic feet per month.) A statement such as that the company agrees to conditions such that PSD rules are not applicable is not acceptable.
- Yes Go to question 13.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).

13. Do the emission controls and/or throughput limits prevent PSD applicability?
 Yes Go to question 14.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(B).
14. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable New Source Performance Standards (NSPS) (40 CFR 60)?
 Yes Go to question 15.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
15. Will the modification, after application of all emission controls and/or throughput limitations comply with all applicable National Emission Standards for Hazardous Air Pollutants (NESHAP)?
 Yes Go to question 16.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
16. Will the modification, after application of all emission controls and/or throughput limitations, comply with all applicable state rules?
 Yes Go to question 17.
 No Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
17. Does the applicant dispute applicability of any applicable state or federal rule?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(c)(2)(C).
 No Go to question 18.
18. Is there good reason to believe that the applicant does not intend to construct in accordance with the interim minor permit revision or minor source modification petition?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(1).
 No Go to question 19.
19. Is there good reason to believe that information in the petition has been falsified?
 Yes Deny the application, pursuant to 326 IAC 2-13-1(h)(7).
 No Approve the interim minor permit revision or minor source modification petition.

Recommendation: 167-28233I-00138 should be approved.

Date the approval was drafted: July 29, 2009

Method of informing the applicant: _____

Comments: None

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

Company Name: Danisco USA, Inc
Address City IN Zip: 160 West Dallas Drive, Terre Haute, IN 47802
Permit Number: 167-28233I-00138
Reviewer: Teresa Freeman
Date: July 28, 2009

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

48.5

424.9

Pollutant

Emission Factor in lb/MMCF	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	32.0	5.5	84.0
Potential Emission in tons/yr	0.40	1.61	0.13	**see below	1.17	17.84

*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

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

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 (SUPPLEMENT D 7/98)

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

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See next page for HAPs emissions calculations.

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

Company Name: Danisco USA, Inc
 Address City IN Zip: 160 West Dallas Drive, Terre Haute, IN 47802
 Permit Number: 167-28233I-00138
 Reviewer: Teresa Freeman
 Date: July 28, 2009

HAPs - Organics

	Benzene	Dichlorobenzene	Formaldehyde	Hexane	Toluene
Emission Factor in lb/MMcf	2.1E-03	1.2E-03	7.5E-02	1.8E+00	3.4E-03
Potential Emission in tons/yr	4.461E-04	2.549E-04	1.593E-02	3.824E-01	7.223E-04

HAPs - Metals

	Lead	Cadmium	Chromium	Manganese	Nickel
Emission Factor in lb/MMcf	5.0E-04	1.1E-03	1.4E-03	3.8E-04	2.1E-03
Potential Emission in tons/yr	1.062E-04	2.337E-04	2.974E-04	8.072E-05	4.461E-04

Methodology is the same as previous page.

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



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

TO: Larry Took
Danisco USA, Inc.
11 West Litesse Drive
Terre Haute, Indiana 47802

DATE: August 3, 2009

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

SUBJECT: Final Decision
Interim
167-28233I-00138

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:
Charles L. Nichols (Danisco USA, Inc.)
Mr. David Jordan (ERM)
OAQ Permits Branch Interested Parties List

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

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 8/3/2009 Danisco USA Inc. 167-28233I-00138 (final)		Type of Mail: CERTIFICATE OF MAILING ONLY	AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
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1		Larry Tock Danisco USA Inc. 11 West Litesse Dr Terre Haute IN 47802 (Source CAATS) VIA CONFIRMED DELIVERY										
2		Charles L Nichols Plant Mgr Danisco USA Inc. 11 West Litesse Dr Terre Haute IN 47802 (RO CAATS)										
3		Mr. Charles L. Berger Berger & Berger, Attorneys at Law 313 Main Street Evansville IN 47700 (Affected Party)										
4		Vigo County Board of Commissioners County Annex, 121 Oak Street Terre Haute IN 47807 (Local Official)										
5		Terre Haute City Council and Mayors Office 17 Harding Ave Terre Haute IN 47807 (Local Official)										
6		Vigo County Health Department 147 Oak Street Terre Haute IN 47807 (Health Department)										
7		David Jordan Environmental Resources Management (ERM) 11350 North Meridian, Ste. 220 Carmel IN 46032 (Consultant)										
8		J.P. Roehm PO Box 303 Clinton IN 47842 (Affected Party)										
9		George Needham Vigo County Air Pollution Control 103 South Third St. Terre Haute IN 47807 (Local Official)										
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