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## PART 70 OPERATING PERMIT OFFICE OF AIR QUALITY

**Rose Acre Farms  
6874 North Base Road  
Seymour, Indiana 47274**

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

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

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

Operation Permit No.: T071-17439-00018	
Issued by: Original signed by Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: July 29, 2004  Expiration Date: July 29, 2009



## TABLE OF CONTENTS

<b>SECTION A</b>	<b>SOURCE SUMMARY</b> .....	6
A.1	General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)] [326 IAC 2-7-1(22)]	
A.2	Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]	
A.3	Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]	
A.4	Part 70 Permit Applicability [326 IAC 2-7-2]	
<b>SECTION B</b>	<b>GENERAL CONDITIONS</b> .....	8
B.1	Definitions [326 IAC 2-7-1]	
B.2	Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]	
B.3	Enforceability [326 IAC 2-7-7]	
B.4	Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]	
B.5	Severability [326 IAC 2-7-5(5)]	
B.6	Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]	
B.7	Duty to Provide Information [326 IAC 2-7-5(6)(E)]	
B.8	Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)(C)]	
B.9	Annual Compliance Certification [326 IAC 2-7-6(5)]	
B.10	Preventive Maintenance Plan [326 IAC 2-7-5(1),(3)and (13)][326 IAC 2-7-6(1)and(6)] [326 IAC 1-6-3]	
B.11	Emergency Provisions [326 IAC 2-7-16]	
B.12	Permit Shield [326 IAC 2-7-15] [326 IAC 2-7-20] [326 IAC 2-7-12]	
B.13	Prior Permits Superseded [326 IAC 2-1.1-9.5]	
B.14	Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]	
B.15	Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]	
B.16	Permit Renewal [326 IAC 2-7-4]	
B.17	Permit Amendment or Modification [326 IAC 2-7-11][326 IAC 2-7-12]	
B.18	Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)] [326 IAC 2-7-12(b)(2)]	
B.19	Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]	
B.20	Source Modification Requirement [326 IAC 2-7-10.5]	
B.21	Inspection and Entry [326 IAC 2-7-6] [IC 13-14-2-2] [IC 13-17-3-2] [IC 13-30-3-1]	
B.22	Transfer of Ownership or Operational Control [326 IAC 2-7-11]	
B.23	Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)][326 IAC 2-1.1-7]	
B.24	Credible Evidence [326 IAC 2-7-5(3)] [326 IAC 2-7-6] [62 FR 8314]	
<b>SECTION C</b>	<b>SOURCE OPERATION CONDITIONS</b> .....	18
	<b>Emission Limitations and Standards [326 IAC 2-7-5(1)]</b>	
C.1	Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P] [326 IAC 6-3-2]	
C.2	Opacity [326 IAC 5-1]	
C.3	Open Burning [326 IAC 4-1] [IC 13-17-9]	
C.4	Incineration [326 IAC 4-2] [326 IAC 9-1-2]	
C.5	Fugitive Dust Emissions [326 IAC 6-4]	
C.6	Operation of Equipment [326 IAC 2-7-6(6)]	
C.7	Stack Height [326 IAC 1-7]	
C.8	Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]	
	<b>Testing Requirements [326 IAC 2-7-6(1)]</b>	
C.9	Performance Testing [326 IAC 3-6]	

**TABLE OF CONTENTS (Continued)**

**Compliance Requirements [326 IAC 2-1.1-11]**

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

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

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

C.13 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11]  
[326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

C.16 Compliance Response Plan - Preparation, Implementation, Records, and Reports

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]  
[326 IAC 2-7-6]

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

C.18 Emission Statement [326 IAC 2-6]

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11]

**Stratospheric Ozone Protection**

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

**SECTION D.1 FACILITY OPERATION CONDITIONS ..... 26**

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

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

D.1.2 New Source Performance Standards(NSPS) Grain Elevators [326 IAC 12] [40 CFR Part  
60, Subpart DD]

D.1.3 PSD Minor Limits [326 IAC 2-2]

D.1.4 Particulate [326 IAC 6-3-2]

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

**Compliance Determination Requirements**

D.1.6 PM and PM10 Control

D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11][40 CFR 60, Subpart  
DD]

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

D.1.8 Visible Emissions Notations [40 CFR 64]

D.1.9 Parametric Monitoring [40 CFR 64]

D.1.10 Baghouse Inspections [40 CFR 64]

D.1.11 Broken or Failed Bag Detection

D.1.12 Cyclone Inspections [40 CFR 64]

D.1.13 Cyclone Failure Detection

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

D.1.14 Record Keeping Requirements

**SECTION D.2 FACILITY OPERATION CONDITIONS ..... 31**

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

D.2.1 PSD Minor Limits [326 IAC 2-2]

**TABLE OF CONTENTS (Continued)**

- D.2.2 General Reduction Requirements for VOC Emissions [326 IAC 8-1-6]
- D.2.3 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR 63, Subpart A]
- D.2.4 Solvent Extraction for Vegetable Oil Production NESHAP [326 IAC 20] [40 CFR Part 63, Subpart GGGG]
- D.2.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

**Compliance Determination Requirements**

- D.2.6 Volatile Organic Compounds (VOC)
- D.2.7 Compliance Determination Requirements [326 IAC 20] [40 CFR Part 63, Subpart GGGG]

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

- D.2.8 VOC Monitoring

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

- D.2.9 Record Keeping Requirements
- D.2.10 Reporting Requirements [40 CFR 63, Subpart GGGG]

**SECTION D.3 FACILITY OPERATION CONDITIONS ..... 37**

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

- D.3.1 Particulate Emissions [326 IAC 6-2-4]
- D.3.2 NSPS for Small Industrial-Commercial-Institutional Steam Generating Units [326 IAC 12-1] [40 CFR 60, Subpart Dc]
- D.3.3 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]
- D.3.4 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]
- D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

**Compliance Determination Requirements**

- D.3.6 Particulate Control

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

- D.3.7 Visible Emissions Notations
- D.3.8 Cyclone Inspections
- D.3.9 Cyclone Failure Detection

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

- D.3.10 Record Keeping Requirements
- D.3.11 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]
- D.3.12 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12][326 IAC 2-7-5]

**SECTION D.4 FACILITY OPERATION CONDITIONS ..... 41**

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

- D.4.1 Particulate Matter (PM) [40 CFR 52, Subpart P]

**SECTION D.5 FACILITY OPERATION CONDITIONS ..... 42**

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

- D.5.1 Volatile Organic Compounds (VOCs) [326 IAC 12-1][40 CFR 60.116b, Subpart Kb]

**TABLE OF CONTENTS (Continued)**

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

D.5.2 Record Keeping Requirements

Certification .....	43
Emergency Occurrence Report .....	44
Quarterly Report .....	46
Quarterly Deviation and Compliance Monitoring Report .....	47

## SECTION A SOURCE SUMMARY

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

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

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The Permittee owns and operates a stationary soybean oil production plant.

Responsible Official:	Vice President
Source Address:	6874 North Base Road, Seymour, Indiana 47274
Mailing Address:	6874 North Base Road, Seymour, Indiana 47274
General Source Phone Number:	(812) 497-2557
SIC Code:	2075
County Location:	Jackson
Source Location Status:	Attainment for all criteria pollutants
Source Status:	Part 70 Permit Program Minor Source, under PSD Rules Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

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

- (a) One (1) cleaning and weighing operation, identified as EP-1, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-1.
- (b) One (1) drying and conditioning operation, identified as EP-2, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by four (4) cyclones and scrubber #4, and exhausting through stack #EP-2.
- (c) One (1) soybean meal grinding operation, identified as EP-3, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-3.
- (d) One (1) Desolventizer-Toaster/Dryer-Cooler (DTDC) system, identified as EP-4, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by three (3) cyclones and three (3) scrubbers (scrubbers #1, #2, #3), and exhausting through stack #EP-4.
- (e) One (1) meal loadout system, identified as EP-5 constructed in 1991, with a maximum throughput rate of 100 tons/hr, controlled by one (1) baghouse and scrubber #5, and exhausting through stack #EP-5.
- (f) Two (2) flaking operations with aspirated air, identified as EP-6, constructed in 1991, with a total maximum throughput rate of 25 tons/hr, controlled by one (1) cyclone and scrubber #4, and exhausting through stack #EP-6.
- (g) One (1) grain receiving hopper, identified as EP-7, constructed in 1991, with a maximum throughput rate of 300 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-7.

- (h) One (1) hull grinding operation, identified as EP-8 constructed in 1991, with a maximum throughput rate of 1.67 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-8.
- (i) One (1) flaking operation with aspirated air, identified as EP-11, constructed in 2001, with a maximum throughput rate of 8.33 tons/hr, controlled by one (1) cyclone and scrubber #4, and exhausting through stack #EP-11.
- (j) One (1) oil extraction system, identified as EP-12, constructed in 1991, using a blend of iso-hexane and n-hexane as the extraction solvent, with a maximum throughput rate of 33.3 tons of soybean per hour and a maximum solvent usage of 55.7 lbs/hr, controlled by one (1) mineral oil adsorber, and exhausting through stack #EP-12.
- (k) Two (2) propane and wood fired boilers, identified as EP-9 and EP-10, constructed in 1999, each with a maximum heat input capacity of 20.5 MMBtu/hr, each equipped with one (1) cyclone for particulate control, and exhausting through stack #EP-9 and stack #EP-10, respectively.

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

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This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [40 CFR 52, Subpart P]
- (c) Other emission units, not regulated by a NESHAP, with PM<sub>10</sub> and SO<sub>2</sub> emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:
  - (1) One (1) solvent storage tank, constructed in 1991, with a maximum capacity of 20,800 gallons. [40 CFR 60, Subpart Kb]
  - (2) Three (3) working tanks, constructed in 1991, each with a maximum capacity of 14,200 gallons. [326 IAC 12]

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

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This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

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

## SECTION B

## GENERAL CONDITIONS

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

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

### B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.5]

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This permit is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

### B.3 Enforceability [326 IAC 2-7-7]

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

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

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

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

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

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

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

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- (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 the "responsible official" as defined by 326 IAC 2-7-1(34). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit.
- (b) For information furnished by the Permittee to IDEM, OAQ, the Permittee may include a claim of confidentiality in accordance with 326 IAC 17.1. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

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

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- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

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

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

and

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

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

The submittal by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.10 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]  
[326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMPs) within ninety (90) days (this time frame is determined on a case by case basis but no more than ninety (90) days) after issuance of this permit, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and

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

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

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

- (b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.
- (c) 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 PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) To the extent the Permittee is required by 40 CFR Part 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such Plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for the unit.

#### B.11 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
  - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
  - (2) The permitted facility was at the time being properly operated;
  - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
  - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ, 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: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

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

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

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

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
  - (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(9) be revised in response to an emergency.
  - (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a deviation from 326 IAC 2-7 and any other applicable rules.
  - (g) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
  - (h) The Permittee shall include all emergencies in the Quarterly Deviation and Compliance Monitoring Report.

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

- (a) Pursuant to 326 IAC 2-7-15, the Permittee has been granted a permit shield. The permit shield provides that compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that either the applicable requirements are included and specifically identified in this permit or the permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable. The

Indiana statutes from IC 13 and rules from 326 IAC, referenced in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7 or for applicable requirements for which a permit shield has been granted.

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

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

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

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- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
  - (1) incorporated as originally stated,
  - (2) revised, or
  - (3) deleted

by this permit.

- (b) All previous registrations and permits are superseded by this permit.

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

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

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

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

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

Request for renewal shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

(1) A timely renewal application is one that is:

- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

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

- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAQ,, 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.

- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]

If IDEM, OAQ, fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

**B.17 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]**

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- (a) Permit amendments and modifications are governed by the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015

Indianapolis, Indiana 46206-6015

Any such application shall be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]
- (d) No permit amendment or modification is required for the addition, operation or removal of a nonroad engine, as defined in 40 CFR 89.2.

**B.18 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]**  
**[326 IAC 2-7-12 (b)(2)]**

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

**B.19 Operational Flexibility [326 IAC 2-7-20] [326 IAC 2-7-10.5]**

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any preconstruction approval required by 326 IAC 2-7-10.5 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

and

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

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

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

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

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

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

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

- (c) Emission Trades [326 IAC 2-7-20(c)]  
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).
- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]  
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAQ, or U.S. EPA is required.

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

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

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

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

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, have access to and copy any records that must be kept under the conditions of this permit;
- (c) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- (d) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, sample or monitor substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) As authorized by the Clean Air Act, IC 13-14-2-2, IC 13-17-3-2, and IC 13-30-3-1, utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

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

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

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

Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.

## SECTION C

## SOURCE OPERATION CONDITIONS

Entire Source

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

- C.1 Particulate Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [40 CFR 52 Subpart P] [326 IAC 6-3-2]
- (a) Pursuant to [40 CFR 52 Subpart P], particulate matter emissions from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- (b) 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. This condition is not federally enforceable.
- C.2 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.3 Open Burning [326 IAC 4-1] [IC 13-17-9]
- The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.
- C.4 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. 326 IAC 9-1-2 is not federally enforceable.
- C.5 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.6 Operation of Equipment [326 IAC 2-7-6(6)]
- Except as otherwise provided by statute or rule, or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.
- C.7 Stack Height [326 IAC 1-7]
- The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted. The provisions of 326

IAC 1-7-1(3), 326 IAC 1-7-2, 326 IAC 1-7-3(c) and (d), 326 IAC 1-7-4, and 326 IAC 1-7-5(a), (b), and (d) are not federally enforceable.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

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

All required notifications shall be submitted to:

Indiana Department of Environmental Management  
Asbestos Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

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

- (e) Procedures for Asbestos Emission Control  
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4-1, 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. The requirement to use an Indiana Accredited Asbestos inspector is not federally enforceable.

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

#### C.9 Performance Testing [326 IAC 3-6]

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- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

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

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ 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.10 Compliance Requirements [326 IAC 2-1.1-11]

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

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

#### C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

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

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality

100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

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

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

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

**C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]**

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

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- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.
- (b) Whenever a condition in this permit requires the measurement of a temperature or flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ( $\pm 2\%$ ) of full scale reading.
- (c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

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

**C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]**

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

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with safe operating procedures.
- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management  
Compliance Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

within ninety (90) days after the date of issuance of this permit.

The ERP does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAQ, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAQ, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68]

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

C.16 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-7-5] [326 IAC 2-7-6]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. If a Permittee is required to have an Operation, Maintenance and Monitoring (OMM) Plan under 40 CFR 60/63, such plans shall be deemed to satisfy the requirements for a CRP for those compliance monitoring conditions. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and comprised of:
  - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
  - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan to include such response steps taken.

The OMM Plan shall be submitted within the time frames specified by the applicable 40 CFR60/63 requirement.

- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
  - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; or
  - (2) If none of the reasonable response steps listed in the Compliance Response Plan or Operation, Maintenance and Monitoring (OMM) Plan; is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.

- (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, and it will be ten (10) days or more until the unit or device will be shut down, then the permittee shall promptly notify the IDEM, OAQ of the expected date of the shut down. The notification shall also include the status of the applicable compliance monitoring parameter with respect to normal, and the results of the response actions taken up to the time of notification.
  - (4) Failure to take reasonable response steps shall be considered a deviation from the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
- (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
  - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for a minor permit modification to the permit, and such request has not been denied.
  - (3) An automatic measurement was taken when the process was not operating.
  - (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when, in accordance with Section D, response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]  
[326 IAC 2-7-6]

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

- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The response action documents submitted pursuant to this condition do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

#### **C.18 Emission Statement [326 IAC 2-6]**

- (a) The Permittee shall submit an emission statement certified pursuant to the requirements of 326 IAC 2-6. This statement must be received in accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The emission statement shall meet the following requirements:

- (1) Indicate estimated actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
- (2) Indicate estimated actual emissions of regulated pollutants as defined by 326 IAC 2-7-1(32) ("Regulated pollutant which is used only for purposes of Section 19 of this rule") from the source, for purposes of Part 70 fee assessment.

The statement must be submitted to:

Indiana Department of Environmental Management  
Technical Support and Modeling Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

The emission statement does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

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

#### **C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-6]**

- (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.20 General Reporting Requirements [326 IAC 2-7-5(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 the "responsible official" as defined by 326 IAC 2-7-1(34).

- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P. O. Box 6015  
Indianapolis, Indiana 46206-6015

- (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 the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.

### **Stratospheric Ozone Protection**

#### **C.21 Compliance with 40 CFR 82 and 326 IAC 22-1**

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

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

## SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) cleaning and weighing operation, identified as EP-1, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-1.
- (b) One (1) drying and conditioning operation, identified as EP-2, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by four (4) cyclones and scrubber #4, and exhausting through stack #EP-2.
- (c) One (1) soybean meal grinding operation, identified as EP-3, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-3.
- (d) One (1) Desolventizer-Toaster/Dryer-Cooler (DTDC) system, identified as EP-4, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by three (3) cyclones and three (3) scrubbers (scrubbers #1, #2, and #3), and exhausting through stack #EP-4.
- (e) One (1) meal loadout system, identified as EP-5 constructed in 1991, with a maximum throughput rate of 100 tons/hr, controlled by one (1) baghouse and scrubber #5, and exhausting through stack #EP-5.
- (f) Two (2) flaking operations with aspirated air, identified as EP-6, constructed in 1991, with a total maximum throughput rate of 25 tons/hr, controlled by one (1) cyclone and scrubber #4, and exhausting through stack #EP-6.
- (g) One (1) grain receiving hopper, identified as EP-7, constructed in 1991, with a maximum throughput rate of 300 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-7.
- (h) One (1) hull grinding operation, identified as EP-8 constructed in 1991, with a maximum throughput rate of 1.67 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-8.
- (i) One (1) flaking operation with aspirated air, identified as EP-11, constructed in 2001, with a maximum throughput rate of 8.33 tons/hr, controlled by one (1) cyclone and scrubber #4, and exhausting through stack #EP-11.

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

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

#### D.1.1 General Provisions Relating to NSPS [326 IAC 12-1] [40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the emission units listed in Condition D.1.2, except when otherwise specified in 40 CFR Part 60, Subpart DD.

#### D.1.2 New Source Performance Standards(NSPS) Grain Elevators [326 IAC 12] [40 CFR Part 60, Subpart DD]

Pursuant to 40 CFR Part 60, Subpart DD (Standards of Performance for Grain Elevators), the emissions from the emissions from the cleaning and weighing operation (EP-1), the drying and conditioning operation (EP-2), the flaking operations (EP-6 and EP-11), and the grain receiving hopper (EP-7) shall not exceed the following limits:

- (a) 0.01 gr/dscf of PM; and
- (b) 0 percent opacity.

**D.1.3 PSD Minor Limits [326 IAC 2-2]**

In order to make the requirements of 326 IAC 2-2 (PSD) not applicable, the PM and PM10 emissions from the following emission unit shall be limited as follows:

Unit ID	Unit Description	PM/PM10 Emission Limits (lbs/hr)
EP-1	Cleaning and Weighing Operation	0.30
EP-2	Drying and Conditioning Operation	3.00
EP-3	Meal Grinding Operation	1.00
EP-4	DTDC System	19.0
EP-5	Meal Loadout Operation	2.00
EP-6	Flaking Operations	4.00
EP-7	Grain Receiving Hopper	1.00
EP-8	Hull Grinding Operation	0.10
EP-11	Flaking Operation	1.50

This is equivalent to 140 tons/yr of PM/PM10 emissions. Combined with the PM/PM10 emissions from the boilers and the insignificant activities, the PM/PM10 emissions from the entire source are limited to less than 250 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

**D.1.4 Particulate [326 IAC 6-3-2]**

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

Unit ID	Unit Description	Max. Throughput Rate (tons/hr)	Particulate Emission Limit (lbs/hr)
EP-3	Meal Grinding Operation	25.0	35.4
EP-4	DTDC System	25.0	35.4
EP-5	Meal Loadout Operation	100	51.3
EP-8	Hull Grinding Operation	1.67	5.78

The pounds per hour limitation was calculated with one the following equations:

- (a) Interpolation of the data for the process weight between one hundred (100) to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

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

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

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

**D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

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

**Compliance Determination Requirements**

**D.1.6 PM and PM10 Control**

In order to comply with Conditions D.1.2, D.1.3, and D.1.4, the baghouses and cyclones for particulate control shall be in operation and control emissions from the emission units EP-1 through EP-8, and EP-11 at all times that these units are in operation.

**D.1.7 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 2-1.1-11][40 CFR 60, Subpart DD]**

No later than 180 days after issuance of this Part 70 permit, in order to demonstrate compliance with Conditions D.1.2 and D.1.3 the Permittee shall perform PM/PM10 and opacity tests for the units listed in Conditions D.1.2 and D.1.3 utilizing methods as approved by the Commissioner. Testing shall be conducted in accordance with Section C - Performance Testing.

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

**D.1.8 Visible Emissions Notations [40 CFR 64]**

- (a) Visible emission notations of stack exhausts from stacks #EP-1 through #EP-8, and #EP-11 shall be performed once per shift during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

**D.1.9 Parametric Monitoring [40 CFR 64]**

The Permittee shall record the total static pressure drop across the baghouses at least once per shift when the cleaning and weighing operation (EP-1), the meal grinding operation (EP-3), the meal loadout operation (EP-5), the grain receiving operation (EP-7), and the hull grinding operation (EP-8) are in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 2.0 to 8.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

#### D.1.10 Baghouse Inspections [40 CFR 64]

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An inspection shall be performed each calendar quarter of all bags controlling the cleaning and weighing operation (EP-1), the meal grinding operation (EP-3), the meal loadout operation (EP-5), the grain receiving operation (EP-7), and the hull grinding operation (EP-8). Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced.

#### D.1.11 Broken or Failed Bag Detection

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In the event that bag failure has been observed:

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

#### D.1.12 Cyclone Inspections [40 CFR 64]

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An inspection shall be performed each calendar quarter of all cyclones controlling the drying and conditioning operation (EP-2), the desolventizer-toaster/dryer-cooler (EP-4), and the flaking operations (EP-6 and EP-11). Inspections required by this condition shall not be performed in consecutive months.

#### D.1.13 Cyclone Failure Detection

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In the event that cyclone failure has been observed:

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

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

**D.1.14 Record Keeping Requirements**

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- (a) To document compliance with Condition D.1.8, the Permittee shall maintain once per shift records of visible emission notations of the stack exhausts from stacks #EP-1 through #EP-8, and #EP-11.
- (b) To document compliance with Condition D.1.9, the Permittee shall maintain once per shift records of the total pressure drop across baghouses.
- (c) To document compliance with Conditions D.1.10 and D.1.12, the Permittee shall maintain records of the results of the inspections required under Conditions D.1.10 and D.1.12.
- (d) To document compliance with Condition D.1.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (f) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## SECTION D.2 FACILITY OPERATION CONDITIONS

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

- (j) One (1) oil extraction system, identified as EP-12, constructed in 1991, using a blend of iso-hexane and n-hexane as the extraction solvent, with a maximum throughput rate of 33.3 tons of soybean per hour and a maximum solvent usage of 55.7 lbs/hr, controlled by one (1) mineral oil adsorber, and exhausting through stack #EP-12.

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

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

#### D.2.1 PSD Minor Limits [326 IAC 2-2]

The total extraction solvents purchased shall be limited to less than 245 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Combined with the VOC emissions from the boilers and other insignificant activities, the VOC emissions from the entire source are limited to less than 250 tons/yr. Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

#### D.2.2 General Reduction Requirements for VOC Emissions [326 IAC 8-1-6]

Pursuant to CP #071-1894-00018, issued on November 14, 1990, and 326 IAC 8-1-6 (BACT), the oil extraction system (EP-12) shall be equipped with the following as the BACT for this unit:

- (a) a desolventizer-toaster/cooler system (EP-4); and
- (b) a mineral oil absorber.

#### D.2.3 General Provisions Relating to NESHAP [326 IAC 20-1] [40 CFR 63, Subpart A]

The provisions of 40 CFR 63, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 20-1, apply to the oil extraction system except when otherwise specified in 40 CFR 63, Subpart GGGG.

#### D.2.4 Solvent Extraction for Vegetable Oil Production NESHAP [326 IAC 20] [40 CFR Part 63, Subpart GGGG]

- (a) Pursuant to 40 CFR 63.2840, the HAP loss factor shall not exceed 0.2 gallons of solvent per ton of soybean processed for the conventional soybean oilseed process. Pursuant to 40 CFR 63.2840(a)(1), the Permittee shall calculate a compliance ratio for the previous twelve (12) operating months using the following equation:

$$\text{Compliance Ratio} = \frac{\text{Actual HAP Loss}}{\text{Allowable HAP Loss}}$$

The actual solvent loss shall be determined by the procedure listed in 40 CFR 63.2853. The equation above can also be expressed as a function of total solvent loss as shown below:

$$\text{Complained Ratio} = \frac{f * \text{Actual Solvent Loss}}{0.64 * 3 ((\text{Oilseed})_i * (\text{SLF})_i)}$$

where  $f$  = The weighted average volume fraction of HAP in solvent received during the previous 12 operating months, as determined in 40 CFR 63.2854, dimensionless;

$0.64$  = The average volume fraction of HAP in solvent in the baseline performance data, dimensionless;

Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months, as determined in 40 CFR 63.2853;

Oilseed = Tons of each oilseed type "i" processed during the previous 12 operating months, as shown in 40 CFR 63.2855; and

SLF = The corresponding solvent loss factor (gal/ton) for oilseed "i" as shown in Table 1 of 40 CFR 63.2840.

- (b) Pursuant to 40 CFR 63.2840(b), after 12 operating months, the Permittee shall calculate the compliance ratio by the end of each calendar month following an operating month using the second equation above. When calculating the compliance ratio, the Permittee shall consider the conditions and exclusions in 40 CFR 63.2840(b)(1) through 63.2840(b)(6).

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

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

**Compliance Determination Requirements**

D.2.6 Volatile Organic Compounds (VOC)

In order to demonstrate compliance with Condition D.2.2(b), the mineral oil absorber shall operate at all times that the oil extraction system (EP-12) is in operation.

D.2.7 Compliance Determination Requirements [326 IAC 20] [40 CFR Part 63, Subpart GGGG]

Pursuant to 40 CFR 63.2851(a), the Permittee shall develop and implement a written plan for demonstrating compliance that provides the detailed procedures that the source will follow to monitor and record data necessary for demonstrating compliance with 40 CFR 63, Subpart GGGG. The Permittee shall keep the plan on-site and readily available as long as the source is operational. All previous versions of the plan shall be readily available for inspection for at least 5 years after each revision. The plan for demonstrating compliance shall include the following:

- (a) The name and address of the owner or operator.
- (b) The physical address of the vegetable oil production process.
- (c) A detailed description of all methods of measurement that the Permittee will use to determine the solvent losses, HAP content of solvent, and the tons of each type of oilseed processed.
- (d) When each measurement will be made.
- (e) Examples of each calculation the Permittee will use to determine the compliance status. Include examples of how the Permittee convert data measured with one parameter to other terms for use in compliance determination.
- (f) Example logs of how data will be recorded.
- (g) A plan to ensure that the data continue to meet compliance demonstration needs.

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

### **D.2.8 VOC Monitoring**

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The Permittee shall comply with the following monitoring requirements for the mineral oil absorber:

- (a) The Permittee shall monitor and record the mineral oil flow rate at least once per day. The Preventive Maintenance Plan for the absorber shall contain troubleshooting contingency and corrective actions for when the flow rate readings are outside of the normal range for any one reading.
- (b) The instruments used for determining the flow rate shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once per year.
- (c) The gauge employed to take the mineral oil flow across the scrubber shall have a scale such that the expected normal reading shall be no less than 20 percent of full scale and be accurate within 10 percent of full scale reading. The instrument shall be quality assured and maintained as specified by the vendor.
- (d) In the event that the absorber's failure has been observed, an inspection will be conducted. Based upon the findings of the inspection, any corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.
- (e) The operating temperatures of the mineral oil absorber shall be established in the Compliance Monitoring Plan. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than every two hours. As an alternate to installing an EDMS, manual readings shall be taken every two hours.
- (f) The mineral oil to the mineral-oil-stripping column shall be kept at a minimum temperature of 160°F or a temperature, as established in the Compliance Response Plan, for adequate stripping of the absorbed iso-hexane from the oil. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than every two hours. As an alternate to installing an EDMS, manual readings shall be taken every two hours.

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

### **D.2.9 Record Keeping Requirements**

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- (a) To document compliance with Condition D.2.1, the Permittee shall maintain records in accordance with (1) through (2) below. Records maintained for (1) through (2) shall be taken monthly:
  - (1) The total extraction solvents purchased for each month.
  - (2) The total extraction solvents purchased for each compliance period.
- (b) To document compliance with Conditions D.2.4 and D.2.7, and 40 CFR 63, Subpart GGGG, the Permittee shall maintain all records required by 40 CFR 63.2862. These records shall include the following:
  - (1) The following information must be kept on-site and readily available as long as the source is operational:
    - (A) Compliance Plan; and
    - (B) Startup, Shutdown, and Malfunction Plan.

- (2) For the solvent inventory, the following information must be recorded in accordance with the source plan for demonstrating compliance:
  - (A) Dates that define each operating status period during a calendar month;
  - (B) The operating status of the source such as normal operation, nonoperating, initial startup period, malfunction period, or exempt operation for each recorded time interval;
  - (C) The gallons of extraction solvent in the inventory on the beginning and ending dates of each normal operating period;
  - (D) The gallons of all extraction solvent received, purchased, and recovered during each calendar month;
  - (E) All extraction solvent inventory adjustments, additions or subtractions. The owner must document the reason for the adjustment and justify the quantity of the adjustment;
  - (F) The total solvent loss for each calendar month, regardless of the source operating status; and
  - (G) The actual solvent loss in gallons for each operating month.
- (3) For the weighted average volume fraction of HAP in the extraction solvent, the Permittee shall record the following items:
  - (A) The gallons of extraction solvent received in each delivery;
  - (B) The volume fraction of each HAP exceeding 1 percent by volume in each delivery of extraction solvent; and
  - (C) The weighted average volume fraction of HAP in extraction solvent received since the end of the last operating month as determined in accordance with 40 CFR 63.2854(b)(2).
- (4) Record the following items, in accordance with the source plan for demonstrating compliance:
  - (A) The dates that define each operating period. The dates must be the same as the dates entered for the extraction solvent inventory.
  - (B) The operating status of the source such as normal operation, nonoperating, initial startup period, malfunction period, or exempt operation for each recorded time interval. On the log for each type of listed oilseed that is being processed during a normal operating period, the owner shall record which type of listed oilseed is being processed in addition to the source operating status.
  - (C) The soybean inventory for the soybean being processed on the beginning and ending dates of each normal operating period.
  - (D) The tons of soybean received at the affected source each normal operating period.

- (E) All soybean inventory adjustments, additions, or subtractions for normal operating periods. The owner must document the reason for adjustment and justify the quantity of the adjustment.
- (F) The tons of soybean processed during each operating month.
- (5) After the source has processed soybean for 12 operating months, and is not operating during an initial startup period as described in 40 CFR 63.2850(c)(2) or (d)(2), or a malfunction period as described in 40 CFR 63.2850(e)(2), the following items must be recorded by the end of the calendar month following each operating month:
  - (A) The 12 operating months rolling sum of the actual solvent loss in gallons as described in 40 CFR 63.2853(c).
  - (B) The weighted average volume fraction of HAP in extraction solvent received for the previous 12 operating months as described in 40 CFR 63.2854(b)(3).
  - (C) The 12 operating months rolling sum of soybean processes at the affected source in tons as described in 40 CFR 6355(c).
  - (D) A determination of the compliance ratio. Using the values from 40 CFR 63.2853, 63.2854, 63.2855 and Table 1 of 40 CFR 63.2840, calculate the compliance ratio using equation 2 of 40 CFR 63.2840.
  - (E) A statement of whether the source is in compliance with all of the requirements of the subpart. This includes a determination of whether the source has met all of the applicable requirements of 40 CFR 63.2850.
- (6) For each SSM event subject to an initial startup period as described in 40 CFR 63.2850(c)(2) or (d)(2), or a malfunction period as described in 40 CFR 63.2850(e)(2), the following items shall be recorded by the end of the calendar month following each month in which the initial startup period or malfunction period occurred:
  - (A) A description and date of the SSM event, its duration, and reason it qualifies as an initial startup or malfunction;
  - (B) An estimate of the solvent loss in gallons for the duration of the initial startup or malfunction period with supporting documentation; and
  - (C) A checklist or other mechanism to indicate whether the SSM plan was followed during the initial startup or malfunction period.
- (c) To document compliance with Condition D.2.8, the Permittee shall maintain records of the following:
  - (1) The mineral oil flow rate;
  - (2) The operating temperature of the mineral oil absorber;
  - (3) The inspection results; and
  - (4) The temperature of the stripping column.

- (d) To document compliance with Condition D.2.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.2.10 Reporting Requirements [40 CFR 63, Subpart GGGG]

- (a) A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or 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 the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) To document compliance with Conditions D.2.4 and D.2.7, and 40 CFR 63, Subpart GGGG, the Permittee shall report the information required by 40 CFR 63.2861, including the following:
  - (1) The Permittee shall submit annual compliance certifications. The first annual compliance certification is due no later than 60 days after determining the initial 12 operating months compliance ratio. For an existing source, such as this source, the notification must be submitted no later than 50 calendar months after April 12, 2004. Each subsequent annual compliance certification is due 12 months after the previous annual compliance certification.
  - (2) The Permittee shall submit a deviation notification report for each compliance determination made in which the ratio exceeded 1.00 as determined under 40 CFR 63.2840(c).
  - (3) If the Permittee chooses to operate the source under an initial startup period subject to 40 CFR 63.2850(c)(2) or (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2), the Permittee shall submit a periodic SSM report by the end of the calendar month following each month in which the initial startup period or malfunction period occurred.
  - (4) If the Permittee handles a SSM during an initial startup period subject to 40 CFR 63.2850(c)(2) or (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2) differently from procedures in the SSM plan, then the Permittee shall submit an immediate SSM report.
- (c) In addition to being submitted to the address listed in Section C - General Reporting Requirements, all reports and the operation and maintenance plan submitted pursuant to 40 CFR 63, Subpart A shall also be submitted to the U.S. EPA at the following address:

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

Pursuant to 40 CFR 63.10(d)(5)(i) and (ii), the reports submitted by the Permittee shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

### SECTION D.3 FACILITY OPERATION CONDITIONS

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

- (k) Two (2) propane and wood fired boilers, identified as EP-9 and EP-10, constructed in 1999, each with a maximum heat input capacity of 20.5 MMBtu/hr, each equipped with one (1) cyclone for particulate control, and exhausting through stack #EP-9 and stack #EP-10, respectively.

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

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

##### D.3.1 Particulate Emissions [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating), particulate emissions from each of the boilers EP-9 and EP-10 shall be limited to less than 0.42 pounds per MMBtu heat input.

The limit was calculated using the following equation:

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

Where Pt = Pounds of particulate matter emitted per million Btu (lb/MMBtu) heat input; and  
Q = Total source maximum heat input capacity in MMBtu/hr (Q equals 41.0 MMBtu/hr)

##### D.3.2 NSPS for Small Industrial-Commercial-Institutional Steam Generating Units [326 IAC 12-1] [40 CFR 60, Subpart Dc]

Pursuant to 40 CFR 60.48c(g), the Permittee shall record and maintain daily records of the amounts of each fuel used in boilers EP-9 and EP-10.

##### D.3.3 General Provisions Relating to NESHAP [326 IAC 20-1][40 CFR Part 63, Subpart A]

- (a) The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source, as designated by 40 CFR 63.7490(a), except when otherwise specified in 40 CFR 63 Subpart DDDDD. The Permittee must comply with these requirements on and after the effective date of 40 CFR 63, Subpart DDDDD.
- (b) Since the applicable requirements associated with the compliance options for the affected source for the large solid fuel subcategory are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15, does not apply to paragraph (a) of this condition.

##### D.3.4 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63, Subpart DDDDD]

- (a) The affected source is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, (40 CFR 63, Subpart DDDDD), as of the effective date of 40 CFR 63, Subpart DDDDD. Pursuant to this rule, the Permittee must comply with 40 CFR 63, Subpart DDDDD on and after three years of the effective date of this rule.
- (b) Boilers EP-9 and EP-10 comprise the affected source for the large solid fuel subcategory.

- (c) The definitions of 40 CFR 63, Subpart DDDDD at 40 CFR 63.7575 are applicable to the affected source.
- (d) Since the applicable requirements associated with the compliance options for the affected source for the large solid fuel subcategory are not included and specifically identified in this permit, the permit shield authorized by the B section of this permit in the condition titled Permit Shield, and set out in 326 IAC 2-7-15 does not apply to paragraph (a) of this condition for the affected source for the large solid fuel subcategory.

**D.3.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]**

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

**Compliance Determination Requirements**

**D.3.6 Particulate Control**

In order to comply with condition D.3.1, the cyclones for particulate control shall be in operation and control particulate emissions from boilers EP-9 and EP10 at all times that these units are in operation.

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

**D.3.7 Visible Emissions Notations**

- (a) Visible emission notations of the boiler stack exhausts shall be performed once per shift during normal daylight operations while combusting wood. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

**D.3.8 Cyclone Inspections**

An inspection shall be performed of each calendar quarter of all cyclones controlling boilers EP-9 and EP-10. Inspections required by this condition shall not be performed in consecutive months.

**D.3.9 Cyclone Failure Detection**

In the event that cyclone failure has been observed:

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

Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

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

**D.3.10 Record Keeping Requirements**

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- (a) To document compliance with Condition D.3.2, the Permittee shall maintain daily records of the amounts of each fuel used in boilers EP-9 and EP-10.
- (b) To document compliance with Condition D.3.7, the Permittee shall maintain records of visible emission notations of the boiler stack exhausts while combusting wood.
- (c) To document compliance with Condition D.3.8, the Permittee shall maintain records of the results of the inspections required under Condition D.3.8.
- (d) To document compliance with Condition D.3.5, the Permittee shall maintain records of any additional inspections prescribed by the Preventive Maintenance Plan.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**D.3.11 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters - Notification Requirements [40 CFR 63, Subpart DDDDD]**

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- (a) Pursuant to 40 CFR 63.7545, the Permittee shall submit the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4), and (f)(6), and 63.9(b) through (h) that apply to the affected source for the large solid fuel subcategory and chosen compliance methods by the dates specified. These notifications include, but are not limited to, the following:
  - (1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date of 40 CFR 63, Subpart DDDDD as required by 40 CFR 63.7545(b).
  - (2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).
  - (3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).
    - (A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).
    - (B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable.
  - (4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.
- (b) The notifications required by paragraph (a) shall be submitted to:

Indiana Department of Environmental Management

Compliance Data Section, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V  
Director, Air and Radiation Division  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

The notifications require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

D.3.12 Requirement to Submit a Significant Permit Modification Application [326 IAC 2-7-12][326 IAC 2-7-5]

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The Permittee shall submit an application for a significant permit modification to IDEM, OAQ to include information regarding which compliance option or options will be chosen in the Part 70 permit for the affected source for the large solid fuel subcategory.

- (a) The significant permit modification application shall be consistent with 326 IAC 2-7-12, including information sufficient for IDEM, OAQ to incorporate into the Part 70 permit the applicable requirements of 40 CFR 63, Subpart DDDDD, a description of the affected source and activities subject to the standard, and a description of how the Permittee will meet the applicable requirements of the standard.
- (b) The significant permit modification application shall be submitted no later than nine months prior to the compliance date as specified in 40 CFR 63.7495(b).
- (c) The significant permit modification application shall be submitted to:

Indiana Department of Environmental Management  
Permits Branch, Office of Air Quality  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015

## SECTION D.4

## FACILITY OPERATION CONDITIONS

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

- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment. [40 CFR 52, Subpart P]

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

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

#### D.4.1 Particulate Matter (PM) [40 CFR 52, Subpart P]

Pursuant to 40 CFR 52, Subpart P, the PM from each of the welding and cutting operations shall not exceed the pound per hour emission rate established as E in the following formula:

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:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and  
P = process weight rate in tons per hour

## SECTION D.5 FACILITY OPERATION CONDITIONS

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

- (c) Other emission units, not regulated by a NESHAP, with PM<sub>10</sub> and SO<sub>2</sub> emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:
- (1) One (1) solvent storage tank, constructed in 1991, with a maximum capacity of 20,800 gallons. [40 CFR 60, Subpart Kb]
  - (2) Three (3) working tanks, constructed in 1991, each with a maximum capacity of 14,200 gallons. [326 IAC 12]

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

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

#### D.5.1 Volatile Organic Compounds (VOCs) [326 IAC 12-1][40 CFR 60.116b, Subpart Kb]

- (a) Pursuant to 40 CFR 60.116b, Subpart Kb (New Source Performance Standards for Volatile Organic Liquid Storage Vessels), the solvent storage tank is subject to 40 CFR 60.116b, paragraphs (a) and (b), which require record keeping.
- (b) Pursuant to 326 IAC 12, the working tanks are subject to record keeping requirements in 40 CFR 60.116b(a) and (b).

### Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

#### D.5.2 Record Keeping Requirements

- (a) To document compliance with Conditions D.5.1, the Permittee shall maintain records for the life of the source in accordance with (1) through (2) below:
  - (1) The dimension of the storage vessel; and
  - (2) An analysis showing the capacity of the storage vessel.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY

### PART 70 OPERATING PERMIT CERTIFICATION

Source Name: Rose Acre Farms  
Source Address: 6874 North Base Road, Seymour, Indiana 47274  
Mailing Address: 6874 North Base Road, Seymour, Indiana 47274  
Part 70 Permit No.: T071-17439-00018

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

Please check what document is being certified:

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

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

Signature:

Printed Name:

Title/Position:

Phone:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE BRANCH  
100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
Phone: 317-233-5674  
Fax: 317-233-5967**

**PART 70 OPERATING PERMIT  
EMERGENCY OCCURRENCE REPORT**

Source Name: Rose Acre Farms  
Source Address: 6874 North Base Road, Seymour, Indiana 47274  
Mailing Address: 6874 North Base Road, Seymour, Indiana 47274  
Part 70 Permit No.: T071-17439-00018

**This form consists of 2 pages**

**Page 1 of 2**

<p><b>9</b> This is an emergency as defined in 326 IAC 2-7-1(12)</p> <ul style="list-style-type: none"><li>• The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and</li><li>• The Permittee must submit notice in writing or by facsimile within two (2) working days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16.</li></ul>
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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 <sub>2</sub> , VOC, NO <sub>x</sub> , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: \_\_\_\_\_

Title / Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

A certification is not required for this report.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY Compliance Data Section

## Part 70 Quarterly Report

Source Name: Rose Acre Farms  
Source Address: 6874 North Base Road, Seymour, Indiana 47274  
Mailing Address: 6874 North Base Road, Seymour, Indiana 47274  
Part 70 Permit No.: T071-17439-00018  
Facility: Oil Extraction System (EP-12)  
Parameter: Total Extraction Solvent Purchased  
Limit: Less than 245 tons per twelve (12) consecutive month period with compliance determined at the end of each month

YEAR: \_\_\_\_\_

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

- 9 No deviation occurred in this quarter.
- 9 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**

**PART 70 OPERATING PERMIT  
 QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Rose Acre Farms  
 Source Address: 6874 North Base Road, Seymour, Indiana 47274  
 Mailing Address: 6874 North Base Road, Seymour, Indiana 47274  
 Part 70 Permit No.: T071-17439-00018

**Months:** \_\_\_\_\_ **to** \_\_\_\_\_ **Year:** \_\_\_\_\_

<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. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".</p>	
<p><input type="radio"/> NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.</p>	
<p><input type="radio"/> THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD</p>	
<p><b>Permit Requirement</b> (specify permit condition #)</p>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	
<p><b>Permit Requirement</b> (specify permit condition #)</p>	
<b>Date of Deviation:</b>	<b>Duration of Deviation:</b>
<b>Number of Deviations:</b>	
<b>Probable Cause of Deviation:</b>	
<b>Response Steps Taken:</b>	

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

Form Completed By: \_\_\_\_\_

Title/Position: \_\_\_\_\_

Date: \_\_\_\_\_

Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

# Indiana Department of Environmental Management Office of Air Quality

## Addendum to the Technical Support Document for a Part 70 Operating Permit

### Source Background and Description

Source Name:	Rose Acres Farms
Source Location:	6874 North Base Road, Seymour, Indiana 47274
County:	Jackson
SIC Code:	2075
Operation Permit No.:	T071-17439-00018
Permit Reviewer:	ERG/YC

On April 18, 2004, the Office of Air Quality (OAQ) had a notice published in The Tribune, Terre Haute, Indiana, stating that Rose Acre Farms had applied for a Part 70 Operating Permit to operate a soybean oil production plant. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On May 25, 2004, Rose Acre Farms submitted comments on the proposed Part 70 operating permit. The summary of the comments is as follows (bolded language has been added, the language with a line through it has been deleted):

### Comment 1:

The source proposed to install five (5) scrubbers, in addition to the existing control devices, to the following emission units:

- (a) Scrubbers #1, #2, and #3 for the existing DTDC system (EP-04);
- (b) Scrubber #4 for the existing drying and condition operation (EP-02), the flaking operations (EP-06 and EP-11); and
- (c) Scrubber #5 for the existing meal loadout system (EP-06).

These units are currently controlled by cyclones or baghouses.

### Response to Comment 1:

The installation of control devices are not considered modifications to the existing units and will not increase the potential to emit of these units. Since the affected emission units will be controlled by both the existing control devices and the new scrubber, the new scrubbers are not required to be in place to demonstrate compliance with the proposed emission limits. Therefore, there will be no specific requirements for the new scrubbers. Conditions A.2 and D.1 have been revised as follows to reflect these additional scrubbers:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]  
[326 IAC 2-7-5(15)]

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

- (a) One (1) cleaning and weighing operation, identified as EP-1, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-1.
- (b) One (1) drying and conditioning operation, identified as EP-2, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by four (4) cyclones **and scrubber #4**, and exhausting through stack #EP-2.
- (c) One (1) soybean meal grinding operation, identified as EP-3, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-3.
- (d) One (1) Desolventizer-Toaster/Dryer-Cooler (DTDC) system, identified as EP-4, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by three (3) cyclones **and three (3) scrubbers (scrubbers #1, #2, and #3)**, and exhausting through stack #EP-4.
- (e) One (1) meal loadout system, identified as EP-5 constructed in 1991, with a maximum throughput rate of 100 tons/hr, controlled by one (1) baghouse **and scrubber #5**, and exhausting through stack #EP-5.
- (f) Two (2) flaking operations with aspirated air, identified as EP-6, constructed in 1991, with a total maximum throughput rate of 25 tons/hr, controlled by one (1) cyclone **and scrubber #4**, and exhausting through stack #EP-6.
- (g) One (1) grain receiving hopper, identified as EP-7, constructed in 1991, with a maximum throughput rate of 300 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-7.
- (h) One (1) hull grinding operation, identified as EP-8 constructed in 1991, with a maximum throughput rate of 1.67 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-8.
- (i) One (1) flaking operation with aspirated air, identified as EP-11, constructed in 2001, with a maximum throughput rate of 8.33 tons/hr, controlled by one (1) cyclone **and scrubber #4**, and exhausting through stack #EP-11.
- (j) One (1) oil extraction system, identified as EP-12, constructed in 1991, using a blend of iso-hexane and n-hexane as the extraction solvent, with a maximum throughput rate of 33.3 tons of soybean per hour and a maximum solvent usage of 55.7 lbs/hr, controlled by one (1) mineral oil adsorber, and exhausting through stack #EP-12.
- (k) Two (2) propane and wood fired boilers, identified as EP-9 and EP-10, constructed in 1999, each with a maximum heat input capacity of 20.5 MMBtu/hr, each equipped with one (1) cyclone for particulate control, and exhausting through stack #EP-9 and stack #EP-10, respectively.

## SECTION D.1 FACILITY OPERATION CONDITIONS

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

- (a) One (1) cleaning and weighing operation, identified as EP-1, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-1.
- (b) One (1) drying and conditioning operation, identified as EP-2, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by four (4) cyclones **and scrubber #4**, and exhausting through stack #EP-2.
- (c) One (1) soybean meal grinding operation, identified as EP-3, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-3.
- (d) One (1) Desolventizer-Toaster/Dryer-Cooler (DTDC) system, identified as EP-4, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by three (3) cyclones **and three (3) scrubbers (scrubbers #1, #2, and #3)**, and exhausting through stack #EP-4.
- (e) One (1) meal loadout system, identified as EP-5 constructed in 1991, with a maximum throughput rate of 100 tons/hr, controlled by one (1) baghouse **and scrubber #5**, and exhausting through stack #EP-5.
- (f) Two (2) flaking operations with aspirated air, identified as EP-6, constructed in 1991, with a total maximum throughput rate of 25 tons/hr, controlled by one (1) cyclone **and scrubber #4**, and exhausting through stack #EP-6.
- (g) One (1) grain receiving hopper, identified as EP-7, constructed in 1991, with a maximum throughput rate of 300 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-7.
- (h) One (1) hull grinding operation, identified as EP-8 constructed in 1991, with a maximum throughput rate of 1.67 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-8.
- (i) One (1) flaking operation with aspirated air, identified as EP-11, constructed in 2001, with a maximum throughput rate of 8.33 tons/hr, controlled by one (1) cyclone **and scrubber #4**, and exhausting through stack #EP-11.

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

Upon further review, the OAQ has decided to make the following revisions to the permit.

1. In accordance with the credible evidence rule (62 Fed. Reg. 8314, Feb 24, 1997); Section 113(a) of the Clean Air Act, 42 U.S. C. § 7413 (a); and a letter from the United States Environmental Protection Agency (USEPA) to IDEM, OAQ dated May, 18 2004, all permits must address the use of credible evidence; otherwise, USEPA will object to the permits. The following language will be incorporated into the permit to address credible evidence:

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

**Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.**

## Indiana Department of Environmental Management Office of Air Quality

### Technical Support Document (TSD) for a Part 70 Operating Permit

#### Source Background and Description

Source Name:	Rose Acres Farms
Source Location:	6874 North Base Road, Seymour, Indiana 47274
County:	Jackson
SIC Code:	2075
Operation Permit No.:	T071-17439-00018
Permit Reviewer:	ERG/YC

The Office of Air Quality (OAQ) has reviewed a Part 70 permit application from Rose Acre Farms relating to the operation of a soybean oil production plant.

#### Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) cleaning and weighing operation, identified as EP-1, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-1.
- (b) One (1) drying and conditioning operation, identified as EP-2, constructed in 1991, with a maximum throughput rate of 33.3 tons of soybeans per hour, controlled by four (4) cyclones, and exhausting through stack #EP-2.
- (c) One (1) soybean meal grinding operation, identified as EP-3, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-3.
- (d) One (1) Desolventizer-Toaster/Dryer-Cooler (DTDC) system, identified as EP-4, constructed in 1991, with a maximum throughput rate of 25 tons/hr, controlled by three (3) cyclones, and exhausting through stack #EP-4.
- (e) One (1) meal loadout system, identified as EP-5 constructed in 1991, with a maximum throughput rate of 100 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-5.
- (f) Two (2) flaking operations with aspirated air, identified as EP-6, constructed in 1991, with a total maximum throughput rate of 25 tons/hr, controlled by one (1) cyclone, and exhausting through stack #EP-6.
- (g) One (1) grain receiving hopper, identified as EP-7, constructed in 1991, with a maximum throughput rate of 300 tons of soybeans per hour, controlled by one (1) baghouse, and exhausting through stack #EP-7.
- (h) One (1) hull grinding operation, identified as EP-8 constructed in 1991, with a maximum throughput rate of 1.67 tons/hr, controlled by one (1) baghouse, and exhausting through stack #EP-8.

- (i) One (1) oil extraction system, identified as EP-12, constructed in 1991, using a blend of iso-hexane and n-hexane as the extraction solvent, with a maximum throughput rate of 33.3 tons of soybean per hour and a maximum solvent usage of 55.7 lbs/hr, controlled by one (1) mineral oil adsorber, and exhausting through stack #EP-12.
- (j) Two (2) propane and wood fired boilers, identified as EP-9 and EP-10, constructed in 1999, each with a maximum heat input capacity of 20.5 MMBtu/hr, each equipped with one (1) cyclone for particulate control, and exhausting through stack #EP-9 and stack #EP-10, respectively.

### **Unpermitted Emission Units and Pollution Control Equipment**

This source also consists of the following unpermitted units:

- (a) One (1) flaking operation with aspirated air, identified as EP-11, constructed in 2001, with a maximum throughput rate of 8.33 tons/hr, controlled by one (1) cyclone, and exhausting through stack #EP-11.

### **New Emission Units and Pollution Control Equipment Receiving Advanced Source Modification Approval**

There are no new emission units or pollution control equipment during this review process.

### **Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including space heaters with a total maximum heat input rate of 0.95 MMBtu/hr.
- (b) Equipment powered by internal combustion engines of capacity equal to or less than 500,000 Btu/hour, except where total capacity of equipment operated by one stationary source exceeds 2,000,000 Btu/hour.
- (c) Combustion source flame safety purging on startup.
- (d) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (e) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (f) Cleaners and solvents having a vapor pressure equal to or less than 2 kPa (15mm Hg or 0.3 psi) measured at 38°C (100°F) or having a vapor pressure equal to or less than 0.7 kPa (5mm Hg or 0.1 psi) measured at 20°C (68°F). The use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.
- (g) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.
- (h) Closed loop heating and cooling systems.
- (i) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.

- (j) Activities associated with the transportation and treatment of sanitary sewage, provided discharge to the treatment plant is under the control of the owner/operator, that is, an on-site sewage treatment facility.
- (k) Forced and induced draft cooling tower system not regulated under a NESHAP.
- (l) Replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment.
- (m) Heat exchanger cleaning and repair.
- (n) Process vessel degassing and cleaning to prepare for internal repairs.
- (o) Paved and unpaved roads and parking lots with public access. [326 IAC 6-4]
- (p) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.
- (q) Blowdown for any of the following: sight glass; boiler; compressors; pumps; and cooling tower.
- (r) On-site fire and emergency response training approved by the department.
- (s) Diesel generators not exceeding 1600 horsepower.
- (t) Stationary fire pumps.
- (u) Filter or coalescer media changeout.
- (v) Other emission units, not regulated by a NESHAP, with PM<sub>10</sub> and SO<sub>2</sub> emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine hundredths (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:
  - (1) Five (5) soybean storage silos, each with a maximum capacity of 880,000 gallons (80,000 bushels) and a maximum throughput rate of 3,397 lbs/hr.
  - (2) One (1) circular silo, with a maximum capacity of 4,400,000 gallons (400,000 bushels) and a maximum throughput rate of 16,980 lbs/hr.
  - (3) One (1) soybean storage bin, with a maximum capacity of 4,950,000 gallons (450,000 bushels) and a maximum throughput rate of 16,047 lbs/hr.
  - (4) Two (2) soybean storage silos, constructed in 2004, each with a maximum capacity of 536,000 bushels and a maximum throughput rate of 22,753 lbs/hr.
  - (5) One (1) solvent storage tank, constructed in 1991, with a maximum capacity of 20,800 gallons. [40 CFR 60, Subpart Kb]
  - (6) Three (3) working tanks, constructed in 1991, each with a maximum capacity of 14,200 gallons. [326 IAC 12]

- (7) Two (2) soybean oil storage tanks, constructed in 1991, each with a maximum capacity of 250,000 gallons.
- (8) Three (3) soybean meal storage tanks, each with a maximum capacity of 600 tons.
- (9) One (1) soybean meal storage tank, with a maximum capacity of 900 tons.
- (10) Three (3) soybean hull storage tanks, each with a maximum capacity of 60 tons.
- (11) One (1) storage tank used to store wood for the boilers, with a maximum capacity of 225 tons.

### Existing Approvals

The source has constructed or has been operating under the following previous approvals:

- (a) Amendment #071-10645-00018, issued on March 17, 1999.
- (b) CP #071-9455-00018, issued on January 26, 1999; and
- (c) CP #071-1894-00018, issued on November 14, 1990.

All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either incorporated as originally stated, revised, or deleted by this permit. All previous permits are superseded by this permit.

The following conditions from previous approvals have been revised in this Part 70 permit:

- (a) In the Technical Support Document for CP #071-1894-00018, issued on November 14, 1990, it stated that there were no New Source Performance Standards (NSPS) applicable to this source. However, this source is a soybean oil extraction plant, was constructed after August 3, 1978, and has a grain storage elevator with a permanent storage capacity greater than 1 million bushels. Therefore, the grain receiving, grain dryer, and grain handling operations at this source are subject to the NSPS for Grain Elevators (40 CFR 60.300 - 60.304, Subpart DD). The requirements of 40 CFR 60, Subpart DD have been included in this Part 70 permit for the affected facilities.
- (b) In CP #071-9455-00018, issued on January 26, 1999, and Amendment #071-10645-00018, issued on March 17, 1999, Condition 14 stated that the particulate emissions from boilers EP-9 and EP-10 shall be limited to less than 0.1 lbs/MMBtu and 20% opacity (6-minute average), pursuant to 40 CFR 60, Subpart Dc. This condition also required the source to install CEMs to monitor the opacity of the exhausts from these boilers.

However, each of the wood fired boilers (EP-9 and EP-10) has a capacity less than 30 MMBtu/hr. Therefore, these boilers are not subject to the particulate emission limits in 40 CFR 60.43c. Therefore, the PM, opacity, and CEM requirements in Condition 14 of CP #071-9455-00018, issued on January 26, 1999, are not applicable to these boilers and will not be included in this Part 70 permit.

### Enforcement Issue

- (a) IDEM is aware that this existing Part 70 source did not submit a Part 70 permit application in a timely manner. Pursuant to 326 IAC 2-7-4(a)(1), this source was required to submit a Part 70 permit application before December 14, 1996 (12 months after the source became subject to the Part 70 permit program). The Part 70 Permit application was received on April 15, 2003.

- (b) IDEM is aware that equipment has been constructed and operated prior to receipt of the proper permit. The subject equipment is listed in this Technical Support Document under the condition entitled *Unpermitted Emission Units and Pollution Control Equipment*.
- (c) IDEM is aware that the actual PM, PM10, and VOC exceeded 100 tons/yr (40% of PSD major source threshold) and there were no federally enforceable PSD minor limits included in the pervious air approvals.
- (d) IDEM is reviewing this matter and will take appropriate action. This proposed permit is intended to satisfy the requirements of the construction permit rules.

### Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete Part 70 permit application for the purposes of this review was received on April 4, 2003. Additional information was received on October 22, 2003, October 29, 2003, October 30, 2003, March 11, 2004, and March 30, 2004.

There was no notice of completeness letter mailed to the source.

### Emission Calculations

See Appendix A of this document for detailed emissions calculations (pages 1 through 4).

### Potential To Emit

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

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	Greater than 250
PM-10	Greater than 250
SO <sub>2</sub>	4.49
VOC	Greater than 250
CO	108
NO <sub>x</sub>	88.4

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAPs	Potential To Emit (tons/year)
Hexane	78.5
TOTAL	78.5

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM10, VOC, and CO are greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (c) **Fugitive Emissions**  
 This type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2. (This source is not a chemical process plant because there are no chemical reactions involved with the soybean oil production process.) However, since there are applicable New Source Performance Standards that were in effect on August 7, 1980 (40 CFR 60, Subpart DD), the fugitive emissions are counted toward determination of PSD applicability.

**Actual Emissions**

No previous emission data has been received from the source.

**Potential to Emit After Issuance**

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 operating permit.

Process/Facility	Potential to Emit After Issuance (tons/year)						
	PM	PM <sub>10</sub>	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	HAPs
Grain Receiving and Processing Operations	Less than 140	Less than 140	-	-	-	-	-
Oil Extraction and Solvent Storage Tanks	-	-	-	Less than 245	-	-	78.5
Wood Fired Boilers	Less than 34.2	Less than 30.5	4.49	3.05	108	88.0	Negligible
Space Heaters (Insignificant)	0.03	0.03	Negligible	0.02	0.35	0.42	Negligible
Other Insignificant Activities	Less than 10.0	Less than 10.0	-	Less than 1.0	-	-	Negligible
<b>Total Emissions</b>	<b>Less than 194</b>	<b>Less than 194</b>	<b>4.49</b>	<b>Less than 249</b>	<b>108</b>	<b>88.4</b>	<b>78.5</b>
<b>Title V Source Thresholds</b>	<b>--</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>10 for a single HAP and 25 for combined HAPs</b>

Note: "--" means that the unit does not emit such pollutants.

**County Attainment Status**

The source is located in Jackson County.

Pollutant	Status
PM-10	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Jackson County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (b) Jackson County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (c) Fugitive Emissions  
This type of operation is not one of the 28 listed source categories under 326 IAC 2-2. However, since there are applicable New Source Performance Standards (40 CFR 60, Subpart DD) that were in effect on August 7, 1980, the fugitive emissions are counted toward determination of PSD applicability.

### Part 70 Permit Conditions

This source is subject to the requirements of 326 IAC 2-7, pursuant to which the source has to meet the following:

- (a) Emission limitations and standards, including those operational requirements and limitations that assure compliance with all applicable requirements at the time of issuance of Part 70 permits.
- (b) Monitoring and related record keeping requirements which assume that all reasonable information is provided to evaluate continuous compliance with the applicable requirements.

### Federal Rule Applicability

- (a) Boilers EP-9 and EP-10 were constructed after June 9, 1989 and each has a heat input capacity greater than 10 MMBtu/hr and less than 100 MMBtu/hr. Therefore, these two boilers are subject to the requirements of the New Source Performance Standard for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12, 40 CFR 60.40c - 60.48c, Subpart Dc).

Since these boilers use wood or propane as fuels, the SO<sub>2</sub> emission limits in 40 CFR 60.42c are not applicable. In addition, the maximum heat input rate for each of the boilers (EP-9 and EP-10) is less than 30 MMBtu/hr. Therefore, the PM emission limits in 40 CFR 60.43c are not applicable. Pursuant to 40 CFR 60.48c(g), the Permittee shall record and maintain daily records of the amounts of each combusted fuel used in boilers EP-9 and EP-10.

- (b) This soybean oil extraction plant was constructed after August 3, 1978 and has a grain storage elevator with a permanent storage capacity greater than 1 million bushels. Therefore, the grain dryers, the grain receiving operations, and the grain handling operations at this source are subject to the New Source Performance Standards for Grain Elevators (40 CFR 60.300 - 60.304, Subpart DD). However, soybean meal and hull do not

meet the "grain" definition in 40 CFR 60.301(a). Therefore, this NSPS does not apply to the meal and full processing operations at this source.

The grain dryer at this source is not a column dryer or a rack dryer as defined in 40 CFR 60.301. Therefore, the requirements of 40 CFR 60.302(a) are not applicable. Pursuant to 40 CFR 60.302(b), on and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the emissions from the cleaning and weighing operation (EP-1), the drying and conditioning operation (EP-2), the flaking operations (EP-6 and EP-11), and the grain receiving hopper (EP-7) shall not exceed the following limits:

- (1) 0.01 gr/dscf of PM.
- (2) 0 percent opacity.

The use of baghouses and cyclones for these operation ensures compliance with the emission limits above.

- (c) The solvent storage tank and the three (3) working tanks have capacities greater than 40 cubic meters (10,567 gallons) and were constructed in 1991. Therefore, these solvent storage tanks are subject to the requirements of New Source Performance Standards for Volatile Organic Liquid Storage Vessels for which construction, reconstruction, or modification commenced after July 23, 1984 (326 IAC 12, 40 CFR 60.110b - 117b, Subpart Kb as of date July 1, 2000).

These tanks are fixed roof tanks and the vapor pressure of the liquid stored in these tanks (Iso-hexane) is less than 76.6 kPa (11.1 psi). Therefore, the requirements in 40 CFR 60.112b are not applicable to these tanks. Pursuant to 40 CFR 60.116b, the Permittee shall keep readily accessible records of the following, for the life time of the source, for the solvent storage tank and the three (3) working tanks:

- (1) the dimension of the storage vessel; and
- (2) an analysis showing the capacity of the storage vessel.

After 326 IAC 1-1-3 is revised to incorporate the version of 40 CFR 60, Subpart Kb as revised October 15, 2003, only the solvent storage tank, which has a capacity greater than 75 cubic meters, will be required to maintain the records specified above.

- (d) The soybean oil storage tanks do not store volatile organic liquid. Therefore, the New Source Performance Standards for Volatile Organic Liquid Storage Vessels for which construction, reconstruction, or modification commenced after July 23, 1984 (326 IAC 12, 40 CFR 60.110b - 117b, Subpart Kb) are not applicable to these tanks.
- (e) This soybean oil production plant is a major source for HAP. Therefore, this source is subject to the requirements of National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production (40 CFR 63.2830-2872, Subpart GGGG). Pursuant to 40 CFR 63.2834, this existing source shall comply with this NESHAP by April 12, 2004. The applicable requirements include, but not limited to, the following:

#### **Emission Standards**

- (1) Pursuant to 40 CFR 63.2840, the HAP loss factor shall not exceed 0.2 gallons of solvent per ton of soybean processed for the conventional soybean oilseed process. Pursuant to 40 CFR 63.2840(a)(1), the Permittee shall calculate a compliance ratio for the previous twelve (12) operating months using the following equation:

$$\text{Compliance Ratio} = \frac{\text{Actual HAP Loss}}{\text{Allowable HAP Loss}}$$

The actual solvent loss shall be determined by the procedure listed in 40 CFR 63.2853. The equation above can also be expressed as a function of total solvent loss as shown below:

$$\text{Complained Ratio} = \frac{f * \text{Actual Solvent Loss}}{0.64 * \sum ((\text{Oilseed})_i * (\text{SLF})_i)}$$

where  $f$  = The weighted average volume fraction of HAP in solvent received during the previous 12 operating months, as determined in 40 CFR 63.2854, dimensionless;

0.64 = The average volume fraction of HAP in solvent in the baseline performance data, dimensionless;

Actual Solvent Loss = Gallons of actual solvent loss during previous 12 operating months, as determined in 40 CFR 63.2853;

Oilseed = Tons of each oilseed type "i" processed during the previous 12 operating months, as shown in 40 CFR 63.2855; and

SLF = The corresponding solvent loss factor (gal/ton) for oilseed "i" as shown in Table 1 of 40 CFR 63.2840.

- (2) Pursuant to 40 CFR 63.2840(b), after 12 operating months, the Permittee shall calculate the compliance ratio by the end of each calendar month following an operating month using the second equation above. When calculating the compliance ratio, the Permittee shall consider the conditions and exclusions in 40 CFR 63.2840(b)(1) through 63.2840(b)(6).

### **Compliance Determination Requirements**

Pursuant to 40 CFR 63.2851(a), the Permittee shall develop and implement a written plan for demonstrating compliance that provides the detailed procedures that the source will follow to monitor and record data necessary for demonstrating compliance with 40 CFR 63, Subpart GGGG. The Permittee shall keep the plan on-site and readily available as long as the source is operational. All previous versions of the plan shall be readily available for inspection for at least 5 years after each revision. The plan for demonstrating compliance shall include the following:

- (1) The name and address of the owner or operator.
- (2) The physical address of the vegetable oil production process.
- (3) A detailed description of all methods of measurement that the Permittee will use to determine the solvent losses, HAP content of solvent, and the tons of each type of oilseed processed.
- (4) When each measurement will be made.
- (5) Examples of each calculation the Permittee will use to determine the compliance status. Include examples of how the Permittee convert data measured with one parameter to other terms for use in compliance determination.

- (6) Example logs of how data will be recorded.
- (7) A plan to ensure that the data continue to meet compliance demonstration needs.

### **Record keeping and Reporting Requirements**

The Permittee shall also comply with the reporting requirements in 40 CFR 63.2861 and the record keeping requirements in 40 CFR 63.2863.

- (f) This existing soybean oil production plant is a major source for HAPs. Therefore, boilers EP-9 and EP-10 are subject to the National Emission Standards for Hazardous Air Pollutants - Industrial/Commercial/Institutional Boilers and Process Heaters (40 CFR 63.7480 - 63.7575, Subpart DDDDD).

Boilers EP-9 and EP-10 are propane/wood fired boilers and have maximum heat input capacities greater than 10 MMBtu/hr. These boilers comprise one existing affected source for the large solid fuel subcategory, as defined by 40 CFR 63.7506(b), because they meet the criteria in the definition in 40 CFR 63.7575 for the large solid fuel subcategory. The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the affected source after the date of publication of the final rule for 40 CFR 63, Subpart DDDDD in the Federal Register, except when otherwise specified in 40 CFR 63.7545(b).

Pursuant to 63.7495(b), the compliance date for these existing boilers is three years after the rule effective date. Therefore, the specific details of the rule and how the Permittee will demonstrate compliance for the affected source for the large solid fuel subcategory are not provided in the permit. The Permittee shall submit an application for a significant permit modification nine months prior to the compliance date for the MACT that will specify the option or options for the emission limitations and standards and methods for determining compliance chosen by the Permittee. At that time, IDEM, OAQ will include the specific details of the rule and how the Permittee will demonstrate compliance. In addition, pursuant to 40 CFR 63, Subpart DDDDD, the Permittee shall submit:

- (1) An Initial Notification containing the information specified in 40 CFR 63.9(b)(2) not later than 120 days after the effective date of 40 CFR 63, Subpart DDDDD as required by 40 CFR 63.7545(b).
- (2) If required to conduct a performance test, a notification of intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required by 40 CFR 63.7(b)(1) and 40 CFR 63.7545(d).
- (3) If required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530(a), a Notification of Compliance Status containing the information required by 40 CFR 63.9(h)(2)(ii) in accordance with 40 CFR 62.7545(e).
  - (A) For each initial compliance demonstration, the Permittee shall submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of the performance test and/or other initial compliance demonstrations according to 40 CFR 63.10(d)(2).
  - (B) The Notification of Compliance Status shall contain the items in 40 CFR 63.7545(e)(1) through (9), as applicable.

- (4) If required to use a continuous monitoring system (CMS), notification of a performance evaluation, if required, as specified in 40 CFR 63.9(g), by the date of submission of the notification of intent to conduct a performance test.
- (g) This source does involve pollutant-specific emissions units:
  - (1) with the potential to emit before controls equal to or greater than one hundred (100) tons per year, and
  - (2) that is subject to an emission limit and has a control device that is necessary to meet that limit.

The pollutant-specific emissions units at this source are listed as follows:

Unit ID	Process Description	Applicable Requirement
EP-1	cleaning and weighing operation	PM - NSPS, Subpart DD
EP-2	drying and conditioning operation	PM - NSPS, Subpart DD
EP-3	soybean meal grinding operation	PM - 326 IAC 6-3-2
EP-4	Desolventizer-Toaster/Dryer-Cooler (DTDC) system	PM - 326 IAC 6-3-2
EP-5	meal loadout system	PM - 326 IAC 6-3-2
EP-6	flaking operations	PM - NSPS, Subpart DD
EP-7	grain receiving hopper	PM - NSPS, Subpart DD
EP-11	flaking operation	PM - NSPS, Subpart DD

The use of baghouses or cyclones is necessary for the above units to demonstrate compliance with the applicable requirements. Therefore, these units are subject to the requirements of 40 CFR Part 64 - Compliance Assurance Monitoring (CAM). A CAM plan for the above units was submitted on October 30, 2003.

The CAM plan includes once per shift visible emission notations for each of the affected units, once per shift pressure drop monitoring requirements for the baghouses, and quarterly inspection requirements for the baghouses and cyclones.

**State Rule Applicability - Entire Source**

**326 IAC 2-2 (Prevention of Significant Deterioration)**

This source was constructed in 1991 and modified in 1999 and 2001. This source is not in one of 28 source categories defined in 326 IAC 2-2 (PSD), and the potential to emit PM, PM10, and VOC before control from the entire source is each greater than 250 tons/yr. However, the source has been using baghouses and cyclones to control PM/PM10 emissions. When this source was constructed in 1991, the PM/PM10 from the entire source after control was less than 140 tons/yr assuming 8,760 hours of operation per year.

The modification in 1999 consisted of two (2) propane/wood fired boilers (EP-9 and EP-10). The potential to emit for this modification is limited to less than 34.2 tons/yr for PM and less than 30.5 tons/yr for PM10. The modification in 2001 consisted of one (1) flaking operation (EP-11), which is controlled by a cyclone and has potential to emit PM/PM10 of 5.40 tons/yr after control. Therefore, both modifications were considered minor under PSD and the PTE of PM and PM10 from the entire source is less than 250 tons/yr after these modifications.

The source estimates VOC emissions using a mass-balance approach using the amount of additional solvent purchased and assuming all solvent loss, including the VOC lost from the desoventizer, the toaster, the dryer, the cooler, and the solvent storage tanks, are VOC emissions. Although the potential VOC emissions are greater than 250 tons/yr, the source stated that their actual VOC emissions are between 200 and 250 tons/yr based on their solvent purchase records and their mass-balance calculations. Therefore, this existing source is a PSD minor source.

In order to maintain the PSD minor source status, the Permittee shall comply with the following:

- (a) The PM and PM10 emissions from the following emission unit shall be limited as follows:

Unit ID	Unit Description	PM/PM10 Emission Limits (lbs/hr)
EP-1	Cleaning and Weighting Operation	0.30
EP-2	Drying and Conditioning Operation	3.00
EP-3	Meal Grinding Operation	1.00
EP-4	DTDC System	19.0
EP-5	Meal Loadout Operation	2.00
EP-6	Flaking Operations	4.00
EP-7	Grain Receiving Hopper	1.00
EP-8	Hull Grinding Operation	0.10
EP-11	Flaking Operation	1.50

This is equivalent to 140 tons/yr of PM/PM10 emissions. According to the emission calculations (see Appendix A), the PM/PM10 emissions after control from these units are in compliance with the emission limits above. The use of baghouses and cyclones ensures compliance with these limits. Combined with the PM/PM10 emissions from the boilers and the insignificant activities, the PM/PM10 emissions from the entire source are limited to less than 250 tons/yr.

- (b) The extraction solvents purchased shall be limited to less than 245 tons per twelve (12) consecutive month period with compliance determined at the end of each month. Combined with the VOC emissions from the boilers and other insignificant activities, the VOC emissions from the entire source are limited to less than 250 tons/yr.

Therefore, the requirements of 326 IAC 2-2 (PSD) are not applicable.

#### 326 IAC 2-4.1-1 (Major Sources of HAP, New Source Toxic Control)

This source was constructed in 1991 and modified in 1999. When this source was constructed in 1991, it was a major source for HAP emissions. Since this source was constructed before July 27, 1997, the requirements of 326 IAC 2-4.1-1 (MACT) are not applicable to the construction of this source.

The modifications in 1999 and 2001 did not have potential to emit HAPs greater than 10 tons/yr for a single HAP and 25 tons/yr for any combination of HAPs. Therefore, the requirements of 326 IAC 2-4.1-1 (MACT) are not applicable to the modifications in 1999 and 2001.

#### 326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it is a source required to have an operating permit under 326 IAC 2-7, Part 70 Permit Program. Pursuant to this rule, the Permittee must submit an emission statement for the source. The statement must be received in

accordance with the compliance schedule specified in 326 IAC 2-6-3 and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period identified in 326 IAC 2-6.

**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:

- (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.

**State Rule Applicability - Grain/Meal Handling Processes**

**326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**

The cleaning and weighing operation (EP-1), the drying and conditioning operation (EP-2), the flaking operations (EP-6 and EP-11), and the grain receiving hopper (EP-7) are subject to the requirements of 40 CFR 60, Subpart DD (NSPS for Grain Elevators). Therefore, these operations are exempt from the requirements of 326 IAC 6-3, pursuant to 326 IAC 6-3-1(a)(5). Pursuant to 326 IAC 6-3-2, particulate emissions from each of following operations shall not exceed the pound per hour limit listed in the table below:

Unit ID	Unit Description	Max. Throughput Rate (tons/hr)	Particulate Emission Limit (lbs/hr)
EP-3	Meal Grinding Operation	25.0	35.4
EP-4	DTDC System	25.0	35.4
EP-5	Meal Loadout Operation	100	51.3
EP-8	Hull Grinding Operation	1.67	5.78

The pounds per hour limitation was calculated with one the following equations:

- (a) Interpolation of the data for the process weight between one hundred (100) to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

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

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

$$E = 55.0 P^{0.11} - 40 \quad \text{where } E = \text{rate of emission in pounds per hour; and } P = \text{process weight rate in tons per hour}$$

According to the emission calculations (see Appendix A), the potential to emit PM after control from each of the operations EP-3, EP-4, EP-5, and EP-8 is less than the emission limits above. Therefore, operations EP-3, EP-4, EP-5, and EP-8 are in compliance with 326 IAC 6-3-2. The use of baghouses and cyclones for these operations ensures compliance with these limits.

### State Rule Applicability - Oil Extraction System (EP-12)

#### 326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The oil extraction system at this source was constructed after 1980 and has potential VOC emissions greater than 25 tons/yr. Therefore, this oil extraction system is subject to the requirements of 326 IAC 8-1-6 and is required to control the VOC emissions with the Best Available Control Technology (BACT).

Pursuant to CP #071-1894-00018, issued on November 14, 1990, the BACT for the oil extraction system (EP-12) was determined to be the following:

- (a) a equipment design of a desolventizer-toaster/cooler system; and
- (b) a mineral oil absorber to control the emissions from the oil extraction system.

This source currently operates a desolventizer-toaster/cooler system (EP-4) and oil extraction system (EP-12). These units are controlled by a mineral oil absorber (95% efficiency), which is used to recover the solvent from the extraction system. Therefore, the oil extraction system (EP-12) at this source is in compliance with the requirements of 326 IAC 8-1-6 (BACT).

### State Rule Applicability - Wood Fired Boilers (EP-9 and EP-10)

#### 326 IAC 6-2-4 (Emission Limitations for Sources of Indirect Heating)

Pursuant to 326 IAC 6-2-4(a), indirect heating facilities constructed after September 12, 1983, shall be limited by 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)

The emission rate limit for each of the 20.5 MMBtu/hr boilers (EP-9 and EP-10) calculated from the equation above equals:

$$Pt = \frac{1.09}{(20.5 + 20.5)^{0.26}} = 0.42 \text{ lbs/MMBtu}$$

Therefore, the PM emission limit for each of the boilers EP-9 and EP-10 is 0.42 lbs/MMBtu.

#### 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations)

The potential to emit SO<sub>2</sub> from each of the wood fired boilers (EP-9 and EP-10) is less than 25 tons/yr. Therefore, the requirements of 326 IAC 7-1.1-2 (Sulfur Dioxide Emission Limitations) are not applicable.

### State Rule Applicability - Insignificant Activities

#### 326 IAC 6-4 (Fugitive Dust Emissions)

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

#### 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

This source is not located in Clark, Floyd, Lake, or Porter County. Therefore, the requirements of 326 IAC 8-9-1 are not applicable to the VOC storage tanks at this source.

### 326 IAC 6-3-2 (Process Operations)

On June 12, 2002, revisions to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) became effective; this rule was previously referred to as 326 IAC 6-3 (Process Operations). As of the date this permit is being issued, these revisions have not been approved by EPA into the Indiana State Implementation Plan (SIP); therefore, the following requirement from the previous version of 326 IAC 6-3 (Process Operations) which has been approved into the SIP remains an applicable requirement until the revisions to 326 IAC 6-3 are approved into the SIP and the condition is modified in a subsequent permit action.

Pursuant to 40 CFR 52, Subpart P, the particulate matter (PM) from each of the welding and cutting operations shall be limited by the pounds per hour limit calculated by the following:

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:

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

Under the rule revision, welding operations which consume less than 625 pounds of wire per day, or torch cutting operations which cut less than 3,400 inches per hour of one inch thickness stock, are exempt from this rule. The welding and cutting operations at this source would meet that exemption.

### Testing Requirements

The major pollutants from this source are PM, PM10, and VOC. Since this source has not performed initial compliance tests for the units subject to 40 CFR 60, Subpart DD, the Permittee shall perform PM and Opacity tests for the cleaning and weighing operation (EP-1), the drying and conditioning operation (EP-2), the flaking operations (EP-6 and EP-11), and the grain receiving hopper (EP-7) no later than 180 days after issuance of this Part 70 permit. The permittee shall also perform PM/PM10 stack tests to demonstrate compliance with 326 IAC 2-2 (PSD) limits.

Compliance with the VOC emission limit will be determined by keeping records of the amount of extraction solvent purchased. Therefore, no stack testing is required for the VOC emission units.

### Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The cleaning and weighing operation (EP-1), the meal grinding operation (EP-3), the meal loadout operation (EP-5), the grain receiving operation (EP-7), and the hull grinding operation (EP-8) have applicable compliance monitoring conditions as specified below:
  - (a) Visible emissions notations of the exhaust of cyclone exhaust stacks EP-1, EP-3, EP-5, EP-7, and EP-8 shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
  - (b) The Permittee shall record the total static pressure drop across the baghouses at least once per shift when the cleaning and weighing operation (EP-1), the meal grinding operation (EP-3), the meal loadout operation (EP-5), the grain receiving operation (EP-7), and the hull grinding operation (EP-8) are in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 2.0 to 8.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.
  - (c) An inspection shall be performed each calendar quarter of all bags controlling the cleaning and weighing operation (EP-1), the meal grinding operation (EP-3), the meal loadout operation (EP-5), the grain receiving operation (EP-7), and the hull grinding operation (EP-8). Inspections required by this condition shall not be performed in consecutive months. All defective bags shall be replaced. In the event that bag failure has been observed:
    - (1) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. If operations continue after bag failure is observed and it will be 10 days or more after the failure is observed before the failed units will be repaired or replaced, the Permittee shall promptly notify the IDEM, OAQ of the expected date the failed units will be repaired or replaced. The notification shall also include the status of the applicable compliance monitoring parameters with respect to normal, and the results of any response actions taken up to the time of notification.
    - (2) For single compartment baghouses, 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.

These monitoring conditions are necessary because the baghouses used to control particulate emissions from the cleaning and weighing operation (EP-1), the meal grinding operation (EP-3), the meal loadout operation (EP-5), the grain receiving operation (EP-7), and the hull grinding operation (EP-8) must operate properly to ensure compliance with 326 IAC 2-2 (PSD), 326 IAC 6-3-2 (Manufacturing Processes), 40 CFR 60, Subpart DD (NSPS for Grain Elevators), and 40 CFR 64 (CAM).

2. The drying and conditioning operation (EP-2), the desolventizer-toaster/dryer-cooler (EP-4), and the flaking operations (EP-6 and EP-11) have applicable compliance monitoring conditions as specified below:

- (a) Visible emissions notations of the exhaust of cyclone exhaust stacks EP-2, EP-4, EP-6, and EP-11 shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
- (b) An inspection shall be performed each calendar quarter of all cyclones controlling the drying and conditioning operation (EP-2), the desolventizer-toaster/dryer-cooler (EP-4), and the flaking operations (EP-6 and EP-11). Inspections shall not be performed in consecutive months. In the event that cyclone failure has been observed, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced.

These monitoring conditions are necessary because the cyclones used to control the drying and conditioning operation (EP-2), the desolventizer-toaster/dryer-cooler (EP-4), and the flaking operations (EP-6 and EP-11) must operate properly to ensure compliance with 326 IAC 2-2 (PSD), 326 IAC 6-3-2 (Manufacturing Processes), 40 CFR 60, Subpart DD (NSPS for Grain Elevators), and 40 CFR 64 (CAM).

3. The oil extraction system (EP-12) has the applicable compliance monitoring conditions for the mineral oil absorber as specified below:
  - (a) The Permittee shall monitor and record the mineral oil flow rate at least once per day. The Preventive Maintenance Plan for the absorber shall contain troubleshooting contingency and corrective actions for when the flow rate readings are outside of the normal range for any one reading.
  - (b) The instruments used for determining the flow rate shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once per year.
  - (c) The gauge employed to take the mineral oil flow across the scrubber shall have a scale such that the expected normal reading shall be no less than 20 percent of full scale and be accurate within 10% of full scale reading. The instrument shall be quality assured and maintained as specified by the vendor.

- (d) In the event that the absorber's failure has been observed, an inspection will be conducted. Based upon the findings of the inspection, any corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.
- (e) The operating temperatures of the mineral oil absorber shall be established in the Compliance Monitoring Plan. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than every two hours. As an alternate to installing an EDMS, manual readings shall be taken every two hours.
- (f) The mineral oil to the mineral-oil-stripping column shall be kept at a minimum temperature of 160°F or a temperature, as established in the Compliance Response Plan, for adequate stripping of the absorbed iso-hexane from the oil. When the process is in operation, an electronic data management system (EDMS) shall record the instantaneous temperature on a frequency of not less than every two hours. As an alternate to installing an EDMS, manual readings shall be taken every two hours.

These monitoring conditions are necessary because the mineral oil adsorber must operate properly at all times the oil extraction system (EP-12) is in operation to ensure compliance with 326 IAC 2-2 (PSD) and 326 IAC 8-1-6 (BACT).

4. The boilers EP-9 and EP-10 have applicable compliance monitoring conditions as specified below:

Visible emissions notations of the exhaust of boiler stacks EP-9 and EP-10 shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

These monitoring conditions are necessary because the boilers (EP-9 and EP-10) must operate properly to ensure compliance with 326 IAC 6-2-4 and 40 CFR 60, Subpart Dc.

## Conclusion

The operation of this soybean oil manufacturing plant shall be subject to the conditions of the attached Part 70 Permit No. T071-17439-00018.

**Appendix A: Emission Calculations  
PM and PM10 Emissions  
From the Grain/Meal Receiving and Handling Process**

**Company Name: Rose Acre Farms  
Address: 6874 North Base Rd., Seymour, IN 47274  
Title V #: T071-17439-00018  
Reviewer: ERG/YC  
Date: March 12, 2004**

Unit ID	Unit Description	Max. Throughput Rate (tons/hr)	Uncontrolled Emission Factor (lbs/ton)	PTE of PM/PM10 before Control (lbs/hr)	PTE of PM/PM10 before Control (tons/yr)	Control Device	Control Efficiency <sup>a</sup>	PTE of PM/PM10 after Control (lbs/hr)	PTE of PM/PM10 after Control (tons/yr)
EP-1	Cleaning and Weighing <sup>a</sup>	33.3	7.56	252	1,103	baghouse	99.9%	0.25	1.10
EP-2	Drying and Conditioning <sup>b</sup>	33.3	4.00	133	583	cyclone	98.0%	2.66	11.7
EP-3	Meal Grinding <sup>c</sup>	25.0	34.0	850	3,723	baghouse	99.9%	0.85	3.72
EP-4	Desolventizer-Toaster/Dryer-Cooler <sup>d</sup>	25.0	37.0	925	4,052	cyclone	98.0%	18.5	81.0
EP-5	Meal Loadout <sup>e</sup>	100	0.27	27.0	118	baghouse	99.9%	0.03	0.12
EP-6	2 Flaking Operations <sup>e</sup>	25.0	3.70	92.5	405	cyclone	96.0%	3.70	16.2
EP-7	Grain Receiving <sup>e</sup>	300	0.15	45.0	197	baghouse	99.9%	0.05	0.20
EP-8	Hull Grinding <sup>e</sup>	1.67	20.0	33.4	146	baghouse	99.9%	0.03	0.15
EP-11	Flaking Operation <sup>e</sup>	8.33	3.70	30.8	135	cyclone	96.0%	1.23	5.40
<b>Total</b>					<b>10,463</b>				<b>120</b>

Assume PM emissions are equal to PM10 emissions. PTE = Potential to Emit.

<sup>a</sup> The emission factor (EF) for this process is the sum of the EF for grain cleaning process and the EF for grain handling (AP-42, Table 9.9.1-1, SCC 3-02-005-30 and 3-02-005-03, date 03/03). Assume uncontrolled EF = controlled EF / (1-99%).

<sup>b</sup> The EF for this process is the sum of the EFs for grain drying process (AP-42, Table 9.9.1-1, SCC 3-02-005-28, date 03/03) and the EF for conditioning process (AP-42, Table 9.11.1-1, SCC 3-02-007-87, date 11/95). Assume uncontrolled EF = controlled EF / (1-99%).

<sup>c</sup> The EFs for these processes are from AP-42, Table 9.11.1-1, SCC 3-02-007-93, 3-02-007-91, 3-02-007-88, 3-02-007-81, 3-02-007-86, date 11/95. Assume uncontrolled EF = controlled EF / (1-99%).

<sup>d</sup> The EF for this process is the sum of the EF for meal dryer process (SCC 3-02-007-89) and the EF for meal cooler process (SCC 3-02-007-90) in AP-42, Table 9.11.1-1, date 11/95. Assume uncontrolled EF = controlled EF / (1-99%).

<sup>e</sup> This information is provided by the source.

### Methodology

PTE of PM/PM10 before Control (lbs/hr) = Max. Throughput Rate (tons/hr) x Uncontrolled Emission Factor (lbs/ton)

PTE of PM/PM10 before Control (tons/yr) = Max. Throughput Rate (tons/hr) x Uncontrolled Emission Factor (lbs/ton) x 8760 hr/yr x 1 ton/2000 lbs

PTE of PM/PM10 after Control (lbs/hr) = Max. Throughput Rate (tons/hr) x Uncontrolled Emission Factor (lbs/ton) x (1- Control Efficiency)

PTE of PM/PM10 after Control (tons/yr) = Max. Throughput Rate (tons/hr) x Uncontrolled Emission Factor (lbs/ton) x 8760 hr/yr x 1 ton/2000 lbs x (1-Control Efficiency)

**Appendix A: Emission Calculations**  
**VOC and HAP Emissions**  
**From the Oil Extraction System (EP-12) and the Solvent Storage Tank**

**Company Name: Rose Acre Farms**  
**Address: 6874 North Base Rd., Seymour, IN 47274**  
**Title V #: T071-17439-00018**  
**Reviewer: ERG/YC**  
**Date: March 12, 2004**

**1. Process Description:**

Maximum Process Rate: 33.3 tons/hr of soybeans  
 \*Maximum Solvent Loss: 56.0 lbs/hr (Provided by the manufacturer for the extraction system)  
 VOC Content: 100%  
 Solvent Used: 50% iso-hexane (Non-HAP Solvent) and 50% n-hexane  
 Control Device: mineral oil absorber (95% efficiency)

\*Note that the maximum solvent loss is based on the total amount of the solvents purchased during a given time period. Since the VOC emissions are mainly fugitive emissions, the AP-42, Chapter 9.11.1 - Vegetable Oil Processing suggests to estimate the VOC emissions using the extraction solvent usage records. This includes the VOC loss from the mineral oil scrubber, meal dryer/cooler, wastewater and oil storage, cooled meal, cooled soybean oil, and fugitive losses.

**2. Potential to Emit VOC:**

$$\text{PTE of VOC} = 56.0 \text{ lbs/hr} \times 8760 \text{ hrs/yr} \times 1 \text{ ton}/2000 \text{ lbs} = \mathbf{245 \text{ tons/yr}}$$

**2. Potential to Emit HAPs:**

The n-hexane solvent used at this source contains 64% by weight of hexane, which is a federally regulated HAP.

$$\text{PTE of HAP} = 56.0 \text{ lbs/hr} \times 8760 \text{ hrs/yr} \times 1 \text{ ton}/2000 \text{ lbs} \times 50 \% \times 64 \% = \mathbf{78.5 \text{ tons/yr}}$$

**Appendix A: Emission Calculations**  
**From Two (2) 20.5 MMBtu/hr Boiler (EP-9 and EP-10)**

**Company Name: Rose Acre Farms**  
**Address: 6874 North Base Rd., Seymour, IN 47274**  
**Title V #: T071-17439-00018**  
**Reviewer: ERG/YC**  
**Date: March 12, 2004**

**1. Potential to Emit (PTE) While Using Wood as Fuel:**

Heat Input Capacity  
MMBtu/hr  
41.0 (2 boilers total)

Emission Factor in lb/MMBtu	Pollutant					
	PM	PM10	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
	0.56	0.50	0.025	0.49	0.017	0.60
<b>Potential to Emit in tons/yr</b>	<b>101</b>	<b>89.8</b>	<b>4.49</b>	<b>88.0</b>	<b>3.05</b>	<b>108</b>

Emission factors are from AP-42, Tables 1.6-1, 1.6-2, and 1.6-3 (09/03), and are the worst case scenario.

**Methodology**

PTE (tons/yr) = Heat Input Capacity (MMBtu/hr) x Emission Factor (lb/MMBtu) x 8760 hr/yr x 1 ton/2000 lbs

**2. Potential to Emit (PTE) While Using Propane as Fuel:**

Heat Input Capacity  
MMBtu/hr  
41.0 (2 boilers total)

Potential Throughput  
kgals/year  
3925.2

S = Weight % Sulfur  
0.5

Emission Factor in lb/kgal	Pollutant					
	PM*	PM10*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
	0.6	0.6	0.05 (0.10S)	19	0.5	3.2
<b>Potential to Emit in tons/yr</b>	<b>1.18</b>	<b>1.18</b>	<b>0.10</b>	<b>37.3</b>	<b>0.98</b>	<b>6.28</b>

\*Assume PM emissions are equal to PM10 emissions.

Emission factors are from AP-42, Tables 1.5-1( SCC 1-002-010-02), Supplement B (10/96).

1 gallon of propane has a heating value of 91,500 Btu.

**Methodology**

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 kgal/1,000 gal x 1 gal/0.0915 MMBtu

PTE (tons/yr) = Throughput (kgals/yr) x Emission Factor (lb/kgal) x 1 ton/2000 lbs

**3. PTE of Boilers EP-9 and EP-10:**

Pollutant	PM*	PM10*	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
<b>PTE before Control (tons/yr)</b>	<b>101</b>	<b>89.8</b>	<b>4.49</b>	<b>88.0</b>	<b>3.05</b>	<b>108</b>
<b>Control Efficiency (Cyclone)</b>	<b>66%</b>	<b>66%</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>PTE after Control (tons/yr)</b>	<b>34.2</b>	<b>30.5</b>	<b>4.49</b>	<b>88.0</b>	<b>3.05</b>	<b>108</b>

**Methodology**

PTE before Control (tons/yr) = The worst case scenario between using wood and propane as fuel.

PTE after Control (tons/yr) = PTE before Control (tons/yr) x (1- Control Efficiency)

**Appendix A: Emission Calculations  
Natural Gas Combustion  
(MMBtu/hr < 100)  
From Natural Gas Fired Space Heaters (Insignificant)**

**Company Name: Rose Acre Farms  
Address: 6874 North Base Rd., Seymour, IN 47274  
Title V #: T071-17439-00018  
Reviewer: ERG/YC  
Date: March 12, 2004**

Heat Input Capacity  
MMBtu/hr

Potential Throughput  
MMCF/yr

0.95

8.32

	Pollutant					
Emission Factor in lb/MMCF	PM*	PM10*	SO <sub>2</sub>	**NO <sub>x</sub>	VOC	CO
	7.6	7.6	0.6	100	5.5	84.0
<b>Potential to Emit in tons/yr</b>	<b>0.03</b>	<b>0.03</b>	<b>2.5E-03</b>	<b>0.42</b>	<b>0.02</b>	<b>0.35</b>

\*PM and PM10 emission factors are condensable and filterable PM10 combined.

\*\*Emission factors for NO<sub>x</sub>: Uncontrolled = 100.

Emission factors are from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

**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

Potential to Emit (tons/yr) = Potential Throughput (MMCF/yr) x Emission Factor (lb/MMCF) x 1 ton/2000 lbs