



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: May 5, 2016

Effective Date: May 5, 2016

Expiration Date: October 31, 2017

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 36-05158A

Federal Tax Id - Plant Code: 20-5172625-1

Owner Information

Name: PERDUE AGRIBUSINESS LLC  
Mailing Address: PO BOX 1537  
SALISBURY, MD 21802-1537

Plant Information

Plant: PERDUE AGRIBUSINESS LLC/MARIETTA  
Location: 36 Lancaster County 36920 Conoy Township  
SIC Code: 2075 Manufacturing - Soybean Oil Mills

Responsible Official

Name: C. WAYNE BLACK  
Title: DIR AGRIBUSINESS ENVIRON  
Phone (252) 348 - 4326

Plan Approval Contact Person

Name: C. WAYNE BLACK  
Title: DIR AGRIBUSINESS ENVIRON  
Phone: (252) 348 - 4326

[Signature] William R. Weaver  
WILLIAM R. WEAVER, SOUTHCENTRAL REGION AIR PROGRAM MANAGER



Plan Approval Description

This plan approval is for the installation of a grain elevator and a soybean oil extraction facility. Refer to Section H for a list of equipment and control devices for the project. Additionally, the facility will be permitted to operate temporary portable boiler(s) with a total heat input of 85.0 mmBtu/hr. The boiler(s) will be fired on No.2 fuel oil. The project is subject to LAER requirements and the facility will be required to secure 257.11 tons of VOC Emission Reduction Credits (ERCs) prior to the startup of the facility.

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Note: These same sub-sections are repeated for each source!

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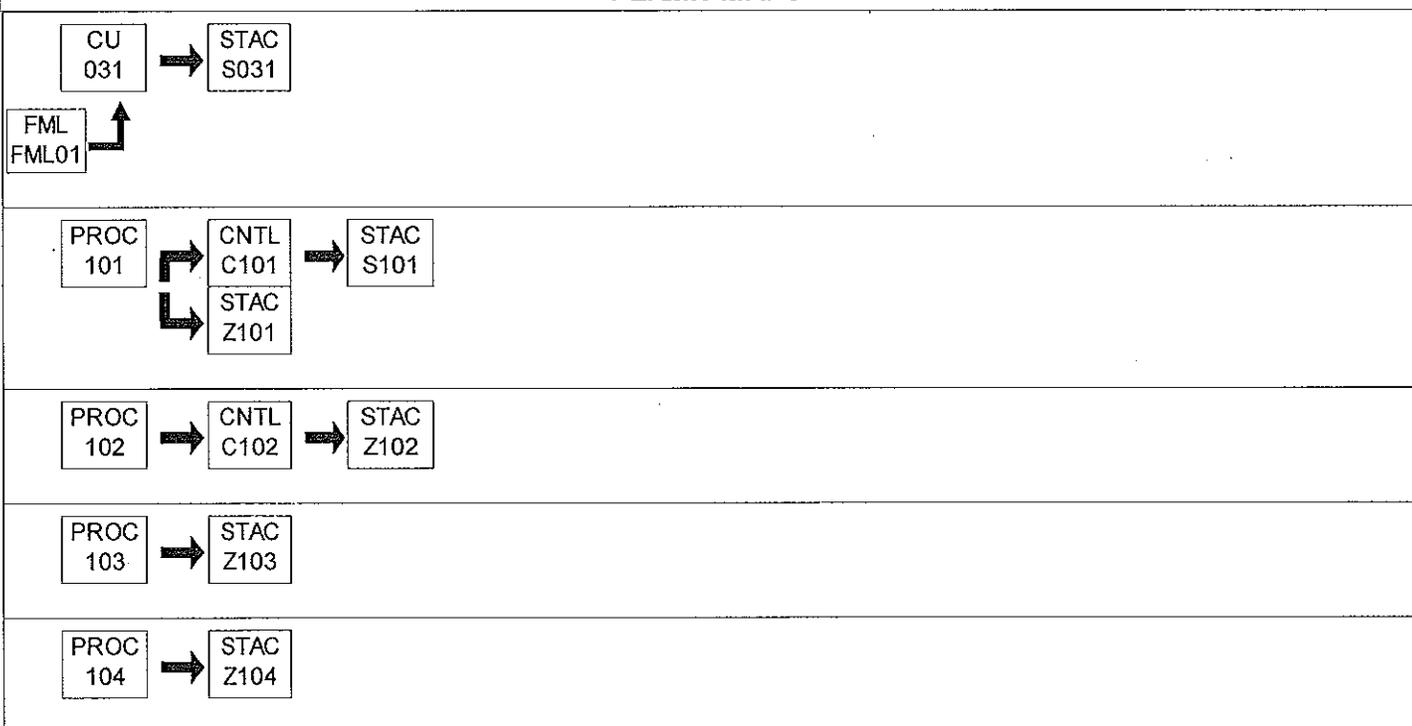
Section H. Miscellaneous

**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	TEMPORARY PORTABLE BOILER(S)	85.000 MMBTU/HR	
		0.607 Th Gal/HR	#2 Oil
101	GRAIN RECEIVING/PROCESSING	600.000 Tons/HR	SOYBEANS
102	WET GRAIN STORAGE BINS	600.000 Tons/HR	SOYBEANS
103	GRAIN DRYER 1	144.000 Tons/HR	SOYBEANS
104	GRAIN DRYER 2	144.000 Tons/HR	SOYBEANS
105	GRAIN STORAGE BINS	600.000 Tons/HR	SOYBEANS
106	GRAIN LOADOUT	120.000 Tons/HR	SOYBEANS
201	SOYBEAN PREP PROCESS	72.920 Tons/HR	SOYBEANS
202	BEAN CONDITIONING	68.540 Tons/HR	SOYBEANS
203	FLAKING ROLLS	68.540 Tons/HR	SOYBEANS
204	EXTRACTION PROCESS	62.500 Tons/HR	SOYBEAN FLAKES/MEAL
205A	MEAL DRYER	59.000 Tons/HR	SOYBEAN FLAKES/MEAL
205B	MEAL COOLER	59.000 Tons/HR	SOYBEAN FLAKES/MEAL
206	MEAL GRINDING & SCREENING	55.000 Tons/HR	SOYBEAN FLAKES/MEAL
207	MILL FEED (HULL) GRINDING	4.740 Tons/HR	SOYBEAN HULLS
208	MEAL/MILL FEED STORAGE BINS	59.740 Tons/HR	SOYBEAN FLAKES/MEAL
209	MEAL/MILL FEED LOADOUT TANK	59.740 Tons/HR	SOYBEAN FLAKES/MEAL
210	MEAL LOADOUT AREA	100.000 Tons/HR	SOYBEAN MEAL/MILL FEED
211	SOYBEAN DAY TANKS	72.920 Tons/HR	SOYBEAN MEAL
212	HEXANE STORAGE TANKS		
301	SOYBEAN OIL EXTRACTION FACILITY ROADWAYS		
C101	GRAIN REC/PROC BAGHOUSE		
C102	BIN VENT FILTERS		
C201A	SOYBEAN PREP BAGHOUSE A		
C201B	SOYBEAN PREP BAGHOUSE B		
C201C	SOYBEAN PREP BAGHOUSE C		
C201D	SOYBEAN PREP BAGHOUSE D		
C201E	SOYBEAN PREP BAGHOUSE E		
C203	FLAKING CYCLONE		
C204	OIL EXTRACTION SCRUBBER		
C205A	MEAL DRYER CYCLONE		
C205B	MEAL COOLER CYCLONE		
C206	MEAL SCREEN/GRIND BAGHOUSE		
C207	MILL FEED (HULL) GRIND BAGHOUSE		
C208	MEAL/MILL FEED STORAGE FILTERS		
C209	MEAL/MILL FEED LOADOUT TANK FILTER		
C210	MEAL LOADOUT BAGHOUSE		
C211	BIN VENT FILTERS		
FML01	NO.2 FUEL OIL		
S031	TEMP BOILER(S) STACK(S)		
S101	GRAIN REC/PROC BAGHOUSE STACK		
S201A	SOYBEAN PREP BAGHOUSE A STACK		

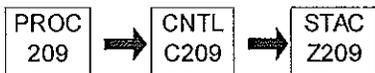
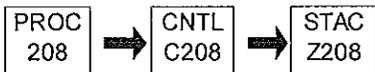
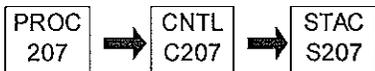
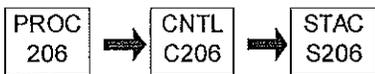
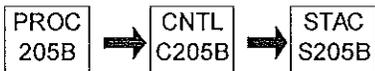
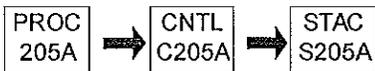
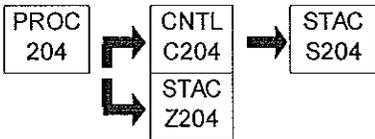
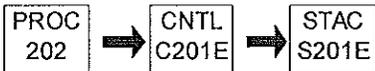
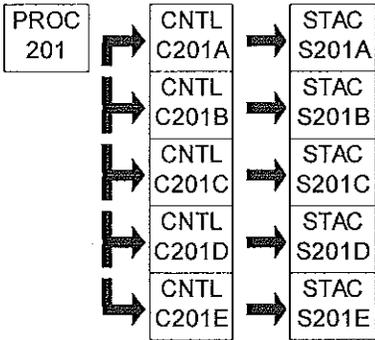
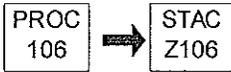
**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S201B	SOYBEAN PREP BAGHOUSE B STACK		
S201C	SOYBEAN PREP BAGHOUSE A STACK		
S201D	SOYBEAN PREP BAGHOUSE D STACK		
S201E	SOYBEAN PREP BAGHOUSE E STACK		
S203	FLAKING CYCLONE STACK		
S204	OIL EXTRACTION SCRUBBER STACK		
S205A	MEAL DRYER CYCLONE STACK		
S205B	MEAL COOLER CYCLONE STACK		
S206	MEAL SCREEN/GRIND BAGHOUSE STACK		
S207	MILL FEED GRIND BAGHOUSE STACK		
S210	MEAL LOADOUT BAGHOUSE STACK		
Z101	GRAIN REC/PROC BAGHOUSE FUGITIVES		
Z102	BIN VENT FILTER STACK		
Z103	GRAIN DRYER 1 FUGITIVES		
Z104	GRAIN DRYER 2 FUGITIVES		
Z105	GRAIN STORAGE BINS EXHAUST		
Z106	GRAIN LOADOUT FUGITIVES		
Z204	OIL EXTRACTION FUGITIVES		
Z208	MEAL/MILL STORAGE FILTER FUGITIVES		
Z209	MEAL/MILL FEED LOADOUT FILTER FUGITIVES		
Z211	SEED SILO TANKS FUGITIVES		
Z301	GRAIN ELEVATOR ROADWAY FUGITIVES		

**PERMIT MAPS**

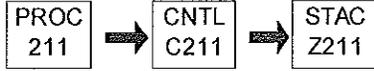


PERMIT MAPS





PERMIT MAPS



**SECTION B. General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

**#002 [25 Pa. Code § 127.12b (a) (b)]****Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

**#003 [25 Pa. Code § 127.12b]****Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

**#004 [25 Pa. Code § 127.12(a) (10)]****Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

**#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]****Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

**#006 [25 Pa. Code § 127.12b]****Plan Approval terms and conditions.**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

**#007 [25 Pa. Code § 127.32]****Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

**#008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]****Inspection and Entry**

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

**#009 [25 Pa. Code 127.13a]****Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

**#010 [25 Pa. Code §§ 121.9 & 127.216]****Circumvention**

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

**#011 [25 Pa. Code § 127.12c]****Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager  
PA Department of Environmental Protection  
(At the address given on the plan approval transmittal letter or otherwise notified)

**#012 [25 Pa. Code § 127.12(9) & 40 CFR Part 68]****Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

**#013 [25 Pa. Code § 127.25]****Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

**SECTION C. Site Level Plan Approval Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

(a) The permittee may not allow the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving, and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered as emissions from the use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning of materials.

(7) Sources and classes of sources other than those identified in (a)(1)-(a)(6), above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) The emissions are of minor significance with respect to causing air pollution; and

(ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

**# 002 [25 Pa. Code §123.2]****Fugitive particulate matter**

The permittee may not allow the emission of fugitive particulate matter into the outdoor atmosphere from a source specified in Section C, Condition #001, if the emissions are visible at the point the emissions pass outside the permittees property.

**# 003 [25 Pa. Code §123.31]****Limitations**

The permittee may not allow the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the permittee's property.

**# 004 [25 Pa. Code §123.42]****Exceptions**

The emission limitations of Section C, Condition #005 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (3) The emission results from sources specified in Section C, Condition #001, subsections (a)(1)-(a)(7).

**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee may not allow the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 10 percent opacity at any time, as measured by EPA Method 9.
- (2) Any visible emissions off the facility property line.

**SECTION C. Site Level Plan Approval Requirements**

[Compliance with the above limits ensures compliance with 25 Pa Code 123.41]

**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall limit the facility's annual emission to less than the following thresholds during any consecutive 12-month period:

- (1) PM - 116.9 tons
- (2) PM-10 - 30.7 tons
- (3) PM-2.5 - 8.1 tons
- (4) VOC - 208.1 tons
- (5) n-Hexane - 104.0 tons

(b) Compliance verification requires emissions to be calculated and recorded for each month and each consecutive 12-month.

**# 007 [25 Pa. Code §129.14]****Open burning operations**

(a) The permittee may not allow open burning of materials in such a manner that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the permittee's property.
- (2) Malodorous air contaminants from the open burning are detectable outside the permittee's property.
- (3) The emissions interfere with the reasonable enjoyment of life and property.
- (4) The emissions cause damage to vegetation or property.
- (5) The emissions are or may be deleterious to human or animal health.

(b) Exceptions. The requirements of Subsection (a) do not apply where the open burning operations result from:

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public official.
- (2) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set solely for recreational or ceremonial purposes.
- (5) A fire set solely for cooking food.

(c) This permit does not constitute authorization to burn solid waste pursuant to section 610 (3) of the Solid Waste Management Act. 35 PS Section 6018.610 (3) or any other provision of the Solid Waste Management Act.

**II. TESTING REQUIREMENTS.****# 008 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The Department reserves the right to require exhaust stack testing of the sources & control devices referenced in this permit to measure emissions for purposes including verification of permit condition compliance and estimation of annual air emissions.

**SECTION C. Site Level Plan Approval Requirements**

# 009 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) Unless an extension is approved in writing by DEP, then within 60 days after achieving the maximum production rate of the grain elevator, but not later than 180 days after initial startup of the grain elevator, the permittee shall conduct stack testing for the following in accordance with methodology outlined in 40 CFR 60.303, 25 Pa. Code Section 139 and the Department's Source Testing Manual or by other means approved by the Department:

- (1) Opacity
  - (i) Source IDs 101 through 106
- (2) PM (filterable)
  - (i) Source ID 101
- (3) Total PM10 (filterable & condensable)
  - (i) Source ID 101
- (4) Total PM2.5 (filterable & condensable)
  - (i) Source ID 101

(b) Unless an extension is approved in writing by DEP, then within 60 days after achieving the maximum production rate of the solvent extraction facility, but not later than 180 days after initial startup of the solvent extraction facility, the permittee shall conduct stack testing for the following in accordance with methodology outlined in 25 Pa. Code Section 139 and the Department's Source Testing Manual or by other means approved by the Department:

- (1) Opacity
  - (i) Source IDs 201 through 210
- (2) PM (filterable)
  - (i) Source IDs 201, 202, 203, 205A, 205B, 206, 207, 210
- (3) Total PM10 (filterable & condensable)
  - (i) Source IDs 201, 202, 203, 205A, 205B, 206, 207, 210
- (4) Total PM2.5 (filterable & condensable)
  - (i) Source IDs 201, 202, 203, 205A, 205B, 206, 207, 210
- (5) VOC
  - (i) Source IDs 204, 205A, 205B, 206

(c) Along with the submittal of the testing protocol under (b)(5) above, the permittee shall submit a testing protocol for the flame ionization detector (FID), including the methodology to which the FID readings will be converted to lb/hr emission rates. The FID readings and any other required data shall be recorded during the VOC testing under (b)(5). FID monitoring shall be conducted on Source IDs 204, 205A, 205B, 206.

(d) Unless otherwise approved by the Department, the FID protocol under (c), above, shall include, at a minimum, the following components:

- (1) FID readings are to be reported as ppmvd (parts per million, by volume, dry basis), as hexane, and lb/hr VOC.
- (2) An FID reading shall be defined as the average of three (3) FID measurements taken within a continuous 10-minute timeframe.
- (3) The procedures for determining the airflows and moisture contents of the respective stacks during the subsequent daily FID readings.

**SECTION C. Site Level Plan Approval Requirements**

- (e) Pursuant to 25 Pa. Code Section 139.3 to at least 60 calendar days prior to commencing an emissions testing program, a test protocol shall be submitted to the Department for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (f) Pursuant to 25 Pa. Code Section 139.3 at least 30 calendar days prior to commencing an emission testing program, notification as to the date and time of testing shall be given to the appropriate Regional Office. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.
- (g) Pursuant to 25 Pa. Code Section 139.53(a)(3) within 15 calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office indicating the completion date of the on-site testing.
- (h) Pursuant to 40 CFR Part 60.8(a), 40 CFR Part 61.13(f) and 40 CFR Part 63.7(g) a complete test report shall be submitted to the Department no later than 60 calendar days after completion of the on-site testing portion of an emission test program. For those tests being conducted pursuant to 40 CFR Part 61, a complete test report shall be submitted within 31 days after completion of the test.
- (i) Pursuant to 25 Pa. Code Section 139.53(b) a complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results will include, at a minimum, the following information:
- (1) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings.
  - (2) Permit number(s) and condition(s) which are the basis for the evaluation.
  - (3) Summary of results with respect to each applicable permit condition.
  - (4) Statement of compliance or non-compliance with each applicable permit condition.
- (j) Pursuant to 25 Pa. Code Section 139.3 to all submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- (k) All testing shall be performed in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection.
- (l) Pursuant to 25 Pa. Code Section 139.53(a)(1) and 139.53(a)(3) all submittals, besides notifications, shall be accomplished through PSIMS\*Online available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> when it becomes available. If internet submittal can not be accomplished, two copies of the submittal shall be sent to the Pennsylvania Department of Environmental Protection, Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachael Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks. In a like manner, a copy of the submittal shall be sent to the South Central Regional Office and the District Office.
- (m) The permittee shall ensure all federal reporting requirements contained in the applicable subpart of 40 CFR are followed, including timelines more stringent than those contained herein. In the event of an inconsistency or any conflicting requirements between state and the federal, the most stringent provision, term, condition, method or rule shall be used by default.

**# 010 [25 Pa. Code §139.1]****Sampling facilities.**

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such sources. In the request, the Department will set

**SECTION C. Site Level Plan Approval Requirements**

forth the time period in which the facilities shall be provided as well as the specifications for such facilities.

**III. MONITORING REQUIREMENTS.****# 011 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and certified in EPA Method 9 to measure plume opacity with the naked eye or with the aid of any device(s) approved by the Department.

**# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall conduct a daily inspection around the facility periphery during daylight hours when the sources are in operation, to detect visible emissions, fugitive emissions, and malodorous air contaminants. Daily inspections are necessary to determine:

- (a) The presence of visible emissions. Visible emissions may be measured according to the methods specified in Section C, Condition #011. Alternately, personnel who observe visible emissions may report the incident to the Department within two (2) hours of the incident and make arrangements for a certified observer to measure the visible emissions.
- (b) The presence of fugitive emissions beyond the property boundaries, as stated in Section C, Condition #002.
- (c) The presence of odorous air contaminants beyond the property boundaries, as stated in Section C, Condition #003.

**IV. RECORDKEEPING REQUIREMENTS.****# 013 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall maintain records of daily inspections referenced in Section C, Condition #012. The records shall include, at minimum, the following information:

- (1) The name of the company representative monitoring these instances.
- (2) The date and time of the observation.
- (3) The wind direction during each observation.
- (4) A description of the emissions and/or malodors observed and actions taken to mitigate them. If none, record "NONE."

(b) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon request.

**V. REPORTING REQUIREMENTS.****# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall submit semiannual reports to the Department regarding the project that is the subject of this Plan Approval. The reports shall be due on January 31 and July 31 of each year. The permittee shall continue submitting these reports until either:

- (1) The first plan approval extension application for the project has been submitted, or
- (2) The permit administrative amendment application has been submitted for the project, or
- (3) An operating permit initial or renewal application addressing the inclusion of this plan approval, has been submitted for the facility.

**SECTION C. Site Level Plan Approval Requirements**

(b) The semiannual reports shall contain the following:

- (1) A brief summary of the status of the project, including any key construction milestones during the relevant semiannual period, and
- (2) A statement of whether the grain elevator or soybean extraction facility has begun operating for any purpose, and what was the date that such operation began.
- (3) A statement of whether a plan approval extension is expected to be needed during the upcoming semiannual period, and if so, when the permittee anticipates submitting the application for such an extension.

(c) The semiannual reports shall be sent to: Air Quality Program Manager, Department of Environmental Protection, Southcentral Regional Office, 909 Elmerton Avenue, Harrisburg, PA 17110.

(d) Within 60 days of the Department's written request to do so, the permittee shall submit an initial Title V Operating Permit application for this facility.

**# 015 [25 Pa. Code §127.442]**

**Reporting requirements.**

The permittee shall report malfunctions to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. Malfunctions shall be reported as follows:

(a) Any malfunction which poses an imminent danger to the public health, safety, welfare, and environment, shall be immediately reported to the Department by telephone. The telephone report of such malfunctions shall occur no later than two (2) hours after the incident. The permittee shall submit a written report of instances of such malfunctions to the Department within three (3) days of the telephone report.

(b) Unless otherwise required by this permit, any other malfunction that is not subject to the reporting requirement of subsection (a) above, shall be reported to the Department, in writing, within five (5) days of malfunction discovery.

(c) Telephone reports can be made to the Lancaster District Office at (717) 299-7661 during normal business hours or to the Department's Emergency Hotline (866) 825-0208 at any time.

**# 016 [25 Pa. Code §135.3]**

**Reporting**

(a) The permittee shall submit an annual emission report to the Department. The report for a given calendar year (January 1 through December 31) is due no later than March 1 of the following year, and shall be submitted to the Air Quality District Supervisor unless otherwise specified.

(b) The permittee may request an extension of time from the Department for filing of the emission report specified in above paragraph (a), and the Department may grant the extension for reasonable cause.

**VI. WORK PRACTICE REQUIREMENTS.**

**# 017 [25 Pa. Code §123.1]**

**Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne from any source specified in Section C, Condition #001(a)(1)-(a)(7). These actions shall include, but are not limited to the following:

(1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.

(2) Application of asphalt, oil, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which may give rise to airborne dusts.

(3) Paving and maintenance of roadways.

**SECTION C. Site Level Plan Approval Requirements**

(4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

**VII. ADDITIONAL REQUIREMENTS.**

**# 018 [25 Pa. Code §121.7]**

**Prohibition of air pollution.**

No person may permit air pollution as that term is defined in the PA Air Pollution Control Act.

**# 019 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall comply with the following Best Management Procedures (BMPs):

(a) General Maintenance, Upkeep, and Repair:

(1) Equipment and air pollution control equipment malfunctions shall be remedied in an expeditious manner so as to minimize the amount and duration of excess emissions.

(2) Air pollution control equipment shall be operated when the air emission source is in operation and shall be checked daily for proper operation.

(3) Routine maintenance of equipment and air pollution control equipment shall be scheduled during periods of process shutdown to the maximum extent possible.

(4) Clean internal and external areas, including floors, roofs and decks, as necessary to minimize dust to the atmosphere when the facility is receiving, transferring, or loading out grain.

(5) Clean the yard, ditches, and curbs as necessary to minimize accumulation of grain, chaff, and grain dust.

(b) Grain Handling Equipment (including but not limited to bucket elevators or legs, scale hoppers, turn heads, scalpers, cleaners, trippers, and headhouse and other such structures):

(1) Grain handling equipment shall be cleaned, enclosed, or controlled as necessary to minimize visible dust emissions to the atmosphere when the equipment is being operated.

(2) Operation of aeration fans shall be minimized during loading of grain into storage bins to the extent possible.

(c) Grain Unloading Stations (Dump Pits) and Grain Loading Stations (Loadouts)

(1) Dump pits with enclosures shall be maintained and operated so as to minimize the emissions of dust to the atmosphere resulting from the dumping and handling of grain.

(2) Dump pits with induced draft fans installed must use fans with a capacity of at least 50 cfm/sq ft of airflow at the effective grate surface, where the area of the effective grate surface is the area of the dump pit grate through which air passes, or would pass, when aspirated. [NOTE: FANS HAVE CAPACITY OF AT LEAST 75 CFM/SQ FT]

(3) If feasible, loadouts shall use socks and drop-down spouts or sleeves, or equivalent, which extend at least 6 inches below the sides of the receiving container to minimize grain free-fall distance, except for topping off.

(4) To the extent possible, the flow of the grain through the spout shall be regulated so as to minimize dust emissions from the receiving container when the container is empty to only partially full.

(5) If grain oiling is used, grain should be oiled after receipt at the grain unloading station and prior to transfer to bin storage to allow for the maximum control effectiveness.

(d) Grain Dryers

**SECTION C. Site Level Plan Approval Requirements**

- (1) Column dryers shall have screen perforations on replacement screens or new dryer screens no greater than 0.094 inch.
- (2) Grain inlets and grain outlets to dryers shall be enclosed.
- (3) The volume of grain passing through the dryer shall not exceed the manufacturer's recommended capacity. [NOTE: RATED CAPACITY IS 4,800 BUSHEL/HR]
- (4) Dryer screens shall be inspected weekly.
- (e) The permittee shall maintain records as appropriate to demonstrate that applicable BMPs are being implemented. These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

**# 020 [25 Pa. Code §127.12b]**  
**Plan approval terms and conditions.**

- (a) The outdoor storage of grain is prohibited.
- (b) The outdoor loading of soybean meal is prohibited.

**# 021 [25 Pa. Code §127.12b]**  
**Plan approval terms and conditions.**  
**Emission Reduction Credit Requirements**

- (a) The permittee shall not operate the source(s) until the required emission reduction credits are provided to and processed through the ERC registry in accordance with 25 PA Code 127.206(d)(1) and the Department certifies the required emissions reductions.
- (b) The permittee shall secure 257.11 tons of VOC ERCs. ERCs shall be properly generated and certified by the Department. Upon transfer, the permittee shall provide the Department with documentation clearly specifying the details of the ERC transaction. VOC ERCs are based on the facility's stack and fugitive VOC PTEs multiplied by the offset ratios of 1.15 for stacks and 1.3 for fugitives:
- $$89.11 \text{ tons VOC (stack)} \times 1.15 + 118.95 \text{ tons VOC (fugitive)} \times 1.3 = 257.11 \text{ tons VOC ERCs}$$
- (c) If the amount of required emission reduction credits increases, the company shall secure emission offsets according to a schedule determined by the Department.
- (d) The ERCs shall be obtained in accordance with the requirements of 25 PA Code 127.208.

**# 022 [25 Pa. Code §127.12b]**  
**Plan approval terms and conditions.**

- (a) Upon the initial startup of the facility, the permittee shall submit within thirty days of January 1st of the following year a certificate of compliance with all permit terms and conditions set forth in this plan approval, and annually thereafter.
- (b) The permittee shall forward EPA the annual compliance certification report as defined in paragraph (a) above, electronically, in lieu of a hard copy version, to the email address: R3 APD Permits@epa.gov

**VIII. COMPLIANCE CERTIFICATION.**

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

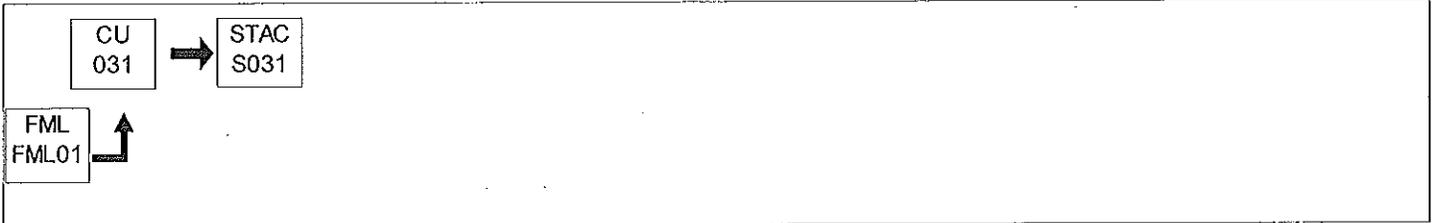
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 031

Source Name: TEMPORARY PORTABLE BOILER(S)

Source Capacity/Throughput: 85.000 MMBTU/HR

0.607 Th Gal/HR #2 Oil

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.11]

**Combustion units**

The permittee may not allow the emission into the outdoor atmosphere of particulate matter from a boiler in excess of 0.4 pound per million Btu of heat input

# 002 [25 Pa. Code §123.22]

**Combustion units**

The permittee shall not allow the emission into the outdoor atmosphere of sulfur oxides, expressed as SO<sub>2</sub>, from any boiler in excess of the rate of 4 pounds per million BTU of heat input over any 1-hour period.

**Fuel Restriction(s).**

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) The boiler(s) shall only be fired on No. 2 fuel oil.

(b) The sulfur content of the No. 2 fuel oil shall not exceed 0.0015 percent by weight (15 ppm).

**Operation Hours Restriction(s).**

# 004 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) The combined annual operation of the temporary boiler(s) shall not exceed 672 hr/yr based on a 12-month running total.

(b) The total heat input of the temporary boiler(s) shall not exceed 57,120 mmBtu/yr based on a 12-month running total.

**II. TESTING REQUIREMENTS.**

# 005 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The permittee shall sample each shipment of fuel oil before use in the boiler(s). As an alternative, the permittee shall obtain a certification from the oil supplier as to the sulfur content and the heating value in BTUs of the oil as delivered.

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

# 006 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

**SECTION D. Source Level Plan Approval Requirements**

(a) The permittee shall maintain, and make available to the Department upon request, monthly records containing the following information:

- (1) Gallons of No. 2 fuel oil combusted in each boiler.
- (2) Hourly usage of each boiler
- (3) Total heat input of each boiler
- (4) Certified fuel supplier receipts

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

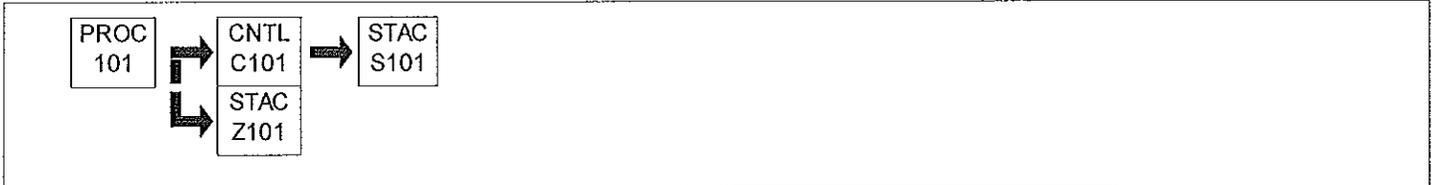
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 101

Source Name: GRAIN RECEIVING/PROCESSING

Source Capacity/Throughput: 600.000 Tons/HR SOYBEANS

Conditions for this source occur in the following groups: GRP01

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.13]

**Processes**

Particulate matter emissions from Source ID 101, Grain Receiving/Processing, shall not exceed the rate determined by the following formula or an effluent gas concentration of 0.02 grains per dry standard cubic foot, whichever is greater:

$$A = 0.76 \cdot (E^{0.42})$$

**Where:**

A = allowable emissions in pounds per hour

E = emission index = F X W pounds per hour

F = 90 = process factor in pounds per unit

W = production or charging rate in units per hour

0.42 = exponent

[Compliance with 40 CFR 60.302 ensures compliance with the particulate matter limit of 25 Pa Code 123.13]

**Throughput Restriction(s).**

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The permittee shall limit the receipt of soybeans to 766,500 tons during any consecutive 12-month period.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The permittee shall install, operate, and maintain instrumentation to measure and display the pressure differential across the fabric collector.

**IV. RECORDKEEPING REQUIREMENTS.**

# 004 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) The permittee shall monitor & record the pressure differential across the fabric collector a minimum of once per week while the soybean receiving operations are operating.

**SECTION D. Source Level Plan Approval Requirements**

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

# 005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall maintain the following:

- (1) Daily records of the amount of soybeans received
- (2) 12-month rolling totals of the amount of soybeans received

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

# 006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Grain unloading operations shall not occur unless the unloading bay is aspirated at negative pressure.

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 102

Source Name: WET GRAIN STORAGE BINS

Source Capacity/Throughput: 600.000 Tons/HR SOYBEANS

Conditions for this source occur in the following groups: GRP01



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

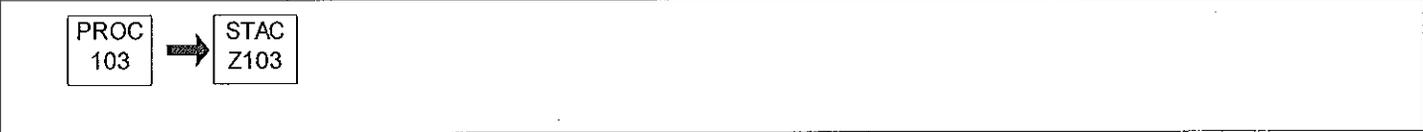
No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 103                      Source Name: GRAIN DRYER 1  
Source Capacity/Throughput:    144.000 Tons/HR                      SOYBEANS

Conditions for this source occur in the following groups: GRP01  
GRP02



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 104

Source Name: GRAIN DRYER 2

Source Capacity/Throughput: 144.000 Tons/HR SOYBEANS

Conditions for this source occur in the following groups: GRP01  
GRP02



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 105

Source Name: GRAIN STORAGE BINS

Source Capacity/Throughput: 600.000 Tons/HR SOYBEANS

Conditions for this source occur in the following groups: GRP01



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 106

Source Name: GRAIN LOADOUT

Source Capacity/Throughput: 120.000 Tons/HR SOYBEANS

Conditions for this source occur in the following groups: GRP01



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

# 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall maintain monthly records of the amount of soybeans shipped offsite.

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 201

Source Name: SOYBEAN PREP PROCESS

Source Capacity/Throughput:

72.920 Tons/HR

SOYBEANS

Conditions for this source occur in the following groups: GRP03  
GRP04



**I. RESTRICTIONS.**

**Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the above source(s) in a manner that the concentration of PM in the effluent gas exceeds 0.01 grain per dry standard cubic foot.

**Throughput Restriction(s).**

# 002 [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 The permittee shall limit the production of the soybean extraction facility to 638,750 tons of soybeans during any consecutive 12-month period, based on an "as received" basis and determined in accordance with the procedures of 40 CFR 63.2855.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 (a) The permittee shall maintain the following:  
 (1) Daily records of the amount of soybeans processed  
 (2) 12-month rolling totals of the amount of soybeans processed

**SECTION D. Source Level Plan Approval Requirements**

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 202

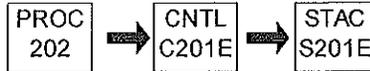
Source Name: BEAN CONDITIONING

Source Capacity/Throughput:

68,540 Tons/HR

SOYBEANS

Conditions for this source occur in the following groups: GRP03

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the above source(s) in a manner that the concentration of PM in the effluent gas exceeds 0.01 grain per dry standard cubic foot.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 203

Source Name: FLAKING ROLLS

Source Capacity/Throughput:

68.540 Tons/HR

SOYBEANS

Conditions for this source occur in the following groups: GRP03  
GRP04



**I. RESTRICTIONS.**

**Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the above source(s) in a manner that the concentration of PM in the effluent gas exceeds 0.02 grain per dry standard cubic foot.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 204                      Source Name: EXTRACTION PROCESS  
Source Capacity/Throughput:      62,500 Tons/HR                      SOYBEAN FLAKES/MEAL

Conditions for this source occur in the following groups: GRP03  
GRP05



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

# 001      [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 The permittee shall install, operate, and maintain instrumentation to continuously monitor the hexane concentration in the exhaust air stream at the final vent fan to ensure that the hexane concentration remains less than 20% of the Lower Explosive Limit (LEL).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 205A

Source Name: MEAL DRYER

Source Capacity/Throughput:

59.000 Tons/HR

SOYBEAN FLAKES/MEAL

Conditions for this source occur in the following groups: GRP03  
GRP04  
GRP05

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the above source(s) in a manner that the concentration of total PM (filterable & condensable) in the effluent gas exceeds 0.02 grain per dry standard cubic foot.

(b) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM10) from the above source(s) in a manner that the concentration of total PM10 (filterable & condensable) in the effluent gas exceeds 0.006 grain per dry standard cubic foot.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements****VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 205B      Source Name: MEAL COOLER  
Source Capacity/Throughput:      59,000 Tons/HR      SOYBEAN FLAKES/MEAL

Conditions for this source occur in the following groups: GRP03  
GRP04  
GRP05



**I. RESTRICTIONS.**

**Emission Restriction(s).**

# 001      [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the above source(s) in a manner that the concentration of total PM (filterable & condensable) in the effluent gas exceeds 0.02 grain per dry standard cubic foot.

(b) Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM10) from the above source(s) in a manner that the concentration of total PM10 (filterable & condensable) in the effluent gas exceeds 0.006 grain per dry standard cubic foot.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 206                      Source Name: MEAL GRINDING & SCREENING  
Source Capacity/Throughput:              55.000 Tons/HR              SOYBEAN FLAKES/MEAL

Conditions for this source occur in the following groups: GRP03  
GRP04  
GRP05



**I. RESTRICTIONS.**

**Emission Restriction(s).**

# 001      [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the above source(s) in a manner that the concentration of PM in the effluent gas exceeds 0.01 grain per dry standard cubic foot.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 207

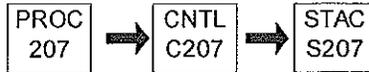
Source Name: MILL FEED (HULL) GRINDING

Source Capacity/Throughput:

4.740 Tons/HR

SOYBEAN HULLS

Conditions for this source occur in the following groups: GRP03  
GRP05

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the above source(s) in a manner that the concentration of PM in the effluent gas exceeds 0.01 grain per dry standard cubic foot.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

# 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall install, operate, and maintain instrumentation to measure and display the pressure differential across the fabric collector.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall monitor & record the pressure differential across the fabric collector a minimum of once per week while the grinding operations are operating.

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 208                      Source Name: MEAL/MILL FEED STORAGE BINS  
Source Capacity/Throughput:              59.740 Tons/HR              SOYBEAN FLAKES/MEAL

Conditions for this source occur in the following groups: GRP03  
GRP05



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 209

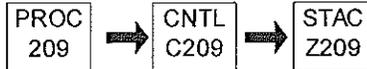
Source Name: MEAL/MILL FEED LOADOUT TANK

Source Capacity/Throughput:

59.740 Tons/HR

SOYBEAN FLAKES/MEAL

Conditions for this source occur in the following groups: GRP03  
GRP05

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 210                      Source Name: MEAL LOADOUT AREA  
Source Capacity/Throughput:    100.000 Tons/HR                      SOYBEAN MEAL/MILL FEED

Conditions for this source occur in the following groups: GRP03  
GRP05



**I. RESTRICTIONS.**

**Emission Restriction(s).**

# 001      [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the permittee shall not allow the emission into the outdoor atmosphere of particulate matter (PM) from the above source(s) in a manner that the concentration of PM in the effluent gas exceeds 0.01 grain per dry standard cubic foot.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

# 002      [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 The permittee shall install, operate, and maintain instrumentation to measure and display the pressure differential across the fabric collector.

**IV. RECORDKEEPING REQUIREMENTS.**

# 003      [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 (a) The permittee shall monitor & record the pressure differential across the fabric collector a minimum of once per week while loadout operations are being conducted.  
 (b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

# 004      [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.  
 (a) Meal loading operations in the loading bay shall not occur unless:  
     (1) The doors and/or flexible strips are maintained in a manner to fully enclose the entrance and exit of the loading bay,  
 AND  
     (2) The loading bay is aspirated at negative pressure.

**SECTION D. Source Level Plan Approval Requirements**

(b) Meal loading operations in the meal storage/loading building shall not occur unless:

(1) The doors and/or flexible strips are maintained in a manner to fully enclose the entrance and exit of the building.

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 211                      Source Name: SOYBEAN DAY TANKS  
Source Capacity/Throughput:      72.920 Tons/HR                      SOYBEAN MEAL

Conditions for this source occur in the following groups: GRP03



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

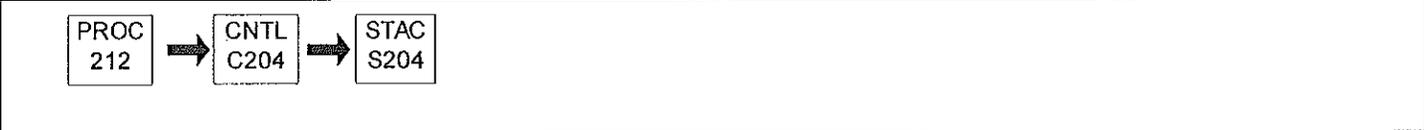


**SECTION D. Source Level Plan Approval Requirements**

Source ID: 212                      Source Name: HEXANE STORAGE TANKS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GRP03  
GRP05



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

**# 001      [25 Pa. Code §129.57]**  
**Storage tanks less than or equal to 40,000 gallons capacity containing VOCs**  
 Each storage tank shall have pressure relief valves which are maintained in good operating condition and which are set to release at no less than 0.7 psig (4.8 kilopascals) of pressure or 0.3 psig (2.1 kilopascals) of vacuum or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department.

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



**SECTION D. Source Level Plan Approval Requirements**

Source ID: 301

Source Name: SOYBEAN OIL EXTRACTION FACILITY ROADWAYS

Source Capacity/Throughput:



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GRP01

Group Description: 40 CFR 60, Subpart DD Sources

Sources included in this group

ID	Name
101	GRAIN RECEIVING/PROCESSING
102	WET GRAIN STORAGE BINS
103	GRAIN DRYER 1
104	GRAIN DRYER 2
105	GRAIN STORAGE BINS
106	GRAIN LOADOUT

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.302]

**Subpart DD - Standards of Performance for Grain Elevators****Standard for particulate matter.**

(a) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any gases which exhibit greater than 0 percent opacity from any:

(1) [NA - COLUMN DRYERS HAVE PLATE PERFORATIONS &lt; 0.094 INCH IN DIAMETER]

(2) [NA - NO RACK DRYERS]

(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility except a grain dryer any process emission which:

(1) Contains particulate matter in excess of 0.023 g/dscm (ca. 0.01 gr/dscf).

(2) Exhibits greater than 0 percent opacity.

(c) On and after the 60th day of achieving the maximum production rate at which the affected facility will be operated, but no later than 180 days after initial startup, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere any fugitive emission from:

(1) Any individual truck unloading station, railcar unloading station, or railcar loading station, which exhibits greater than 5 percent opacity.

(2) Any grain handling operation which exhibits greater than 0 percent opacity.

(3) Any truck loading station which exhibits greater than 10 percent opacity.

(4) [NA - NO BARGE OR SHIP LOADING STATIONS]

(d) [NA - NO BARGE OR SHIP LOADING STATIONS]

**II. TESTING REQUIREMENTS.**

# 002 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.303]

**Subpart DD - Standards of Performance for Grain Elevators****Test methods and procedures.**

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (c) of this section.



**SECTION E. Source Group Plan Approval Restrictions.**

(b) The owner or operator shall determine compliance with the particulate matter standards in §60.302 as follows:

- (1) Method 5 shall be used to determine the particulate matter concentration and the volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 60 minutes and 1.70 dscm (60 dscf). The probe and filter holder shall be operated without heaters.
- (2) Method 2 shall be used to determine the ventilation volumetric flow rate.
- (3) Method 9 and the procedures in §60.11 shall be used to determine opacity.

(c) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:

- (1) For Method 5, Method 17 may be used.

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

**# 003 [25 Pa. Code §127.12b]**  
**Plan approval terms and conditions.**  
 In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

**# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.304]**  
**Subpart DD - Standards of Performance for Grain Elevators**  
**Modifications.**

- (a) The factor 6.5 shall be used in place of "annual asset guidelines repair allowance percentage," to determine whether a capital expenditure as defined by §60.2 has been made to an existing facility.
- (b) The following physical changes or changes in the method of operation shall not by themselves be considered a modification of any existing facility:
  - (1) The addition of gravity loadout spouts to existing grain storage or grain transfer bins.
  - (2) The installation of automatic grain weighing scales.
  - (3) Replacement of motor and drive units driving existing grain handling equipment.



**SECTION E. Source Group Plan Approval Restrictions.**

(4) The installation of permanent storage capacity with no increase in hourly grain handling capacity.

**SECTION E: Source Group Plan Approval Restrictions.**

Group Name: GRP02  
 Group Description: Grain Dryers  
 Sources included in this group

ID	Name
103	GRAIN DRYER 1
104	GRAIN DRYER 2

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.13]

**Processes**

Particulate matter emissions from each grain dryer shall not exceed the rate determined by the following formula or an effluent gas concentration of 0.02 grains per dry standard cubic foot, whichever is greater:

$$A = 0.76 \cdot (E^{0.42})$$

**Where:**

A = allowable emissions in pounds per hour  
 E = emission index = F X W pounds per hour  
 F = 200 = process factor in pounds per unit  
 W = production or charging rate in units per hour  
 0.42 = exponent

**Fuel Restriction(s).**

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The grain dryers shall be indirectly heated from steam only.

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) The permittee shall maintain daily records of the following for each dryer:

- (1) Soybean throughput in tons;
- (2) Hours of operation;

(b) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.****VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GRP03

Group Description: 40 CFR 63, Subpart GGGG Sources

Sources included in this group

ID	Name
201	SOYBEAN PREP PROCESS
202	BEAN CONDITIONING
203	FLAKING ROLLS
204	EXTRACTION PROCESS
205A	MEAL DRYER
205B	MEAL COOLER
206	MEAL GRINDING & SCREENING
207	MILL FEED (HULL) GRINDING
208	MEAL/MILL FEED STORAGE BINS
209	MEAL/MILL FEED LOADOUT TANK
210	MEAL LOADOUT AREA
211	SOYBEAN DAY TANKS
212	HEXANE STORAGE TANKS

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2840]

**Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production****What emission requirements must I meet?**

For each facility meeting the applicability criteria in § 63.2832, you must comply with either the requirements specified in paragraphs (a) through (d), or the requirements in paragraph (e) of this section.

(a)(1) The emission requirements limit the number of gallons of HAP lost per ton of listed oilseeds processed. For each operating month, you must calculate a compliance ratio which compares your actual HAP loss to your allowable HAP loss for the previous 12 operating months as shown in Equation 1 of this section. An operating month, as defined in § 63.2872, is any calendar month in which a source processes a listed oilseed, excluding any entire calendar month in which the source operated under an initial startup period subject to § 63.2850(c)(2) or (d)(2) or a malfunction period subject to § 63.2850(e)(2). Equation 1 of this section follows:

REFER TO REGULATION FOR EQUATION 1

(2) Equation 1 of this section can also be expressed as a function of total solvent loss as shown in Equation 2 of this section. Equation 2 of this section follows:

REFER TO REGULATION FOR EQUATION 2

Where:

$f$  = The weighted average volume fraction of HAP in solvent received during the previous 12 operating months, as determined in § 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 § 63.2853.

Oilseed = Tons of each oilseed type "i" processed during the previous 12 operating months, as shown in § 63.2855.

SLF = The corresponding solvent loss factor (gal/ton) for oilseed "i" listed in Table 1 of this section, as follows:

TABLE 1 of § 63.2840—Oilseed Solvent Loss Factors for Determining Allowable HAP Loss

(ix) Soybean, conventional - 0.2 gal/ton

**SECTION E. Source Group Plan Approval Restrictions.**

(b) When your source has processed listed oilseed for 12 operating months, calculate the compliance ratio by the end of each calendar month following an operating month using Equation 2 of this section. When calculating your compliance ratio, consider the conditions and exclusions in paragraphs (b)(1) through (6) of this section:

(1) If your source processes any quantity of listed oilseeds in a calendar month and the source is not operating under an initial startup period or malfunction period subject to § 63.2850, then you must categorize the month as an operating month, as defined in § 63.2872.

(2) The 12-month compliance ratio may include operating months occurring prior to a source shutdown and operating months that follow after the source resumes operation.

(3) If your source shuts down and processes no listed oilseed for an entire calendar month, then you must categorize the month as a nonoperating month, as defined in § 63.2872. Exclude any nonoperating months from the compliance ratio determination.

(4) If your source is subject to an initial startup period as defined in § 63.2872, exclude from the compliance ratio determination any solvent and oilseed information recorded for the initial startup period.

(5) If your source is subject to a malfunction period as defined in § 63.2872, exclude from the compliance ratio determination any solvent and oilseed information recorded for the malfunction period.

(6) [NA - NOT PROCESSING COTTONSEED OR SPECIALTY SOYBEAN]

(c) If the compliance ratio is less than or equal to 1.00, your source was in compliance with the HAP emission requirements for the previous operating month.

(d) To determine the compliance ratio in Equation 2 of this section, you must select the appropriate oilseed solvent loss factor from Table 1 of this section. First, determine whether your source is new or existing using Table 1 of § 63.2833. Then, under the appropriate existing or new source column, select the oilseed solvent loss factor that corresponds to each type oilseed or process operation for each operating 63.2840

(e) [NA - NOT USING LOW-HAP SOLVENT OPTION]

(f) You may change compliance options for your source if you submit a notice to the Administrator at least 60 days prior to changing compliance options. If your source changes from the low-HAP solvent option to the compliance ratio determination option, you must determine the compliance ratio for the most recent 12 operating months beginning with the first month after changing compliance options.

[66 FR 19011, Apr. 12, 2001, as amended at 69 FR page 53341, Sept. 1, 2004]

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**IV. RECORDKEEPING REQUIREMENTS.**

# 002 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2862]

Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production

What records must I keep?

(a) You must satisfy the recordkeeping requirements of this section by the compliance date for your source specified in Table 1 of § 63.2834.

**SECTION E. Source Group Plan Approval Restrictions.**

(b) Prepare a plan for demonstrating compliance (as described in § 63.2851) and a SSM plan (as described in § 63.2852). In these two plans, describe the procedures you will follow in obtaining and recording data, and determining compliance under normal operations or a SSM subject to the § 63.2850(c)(2) or (d)(2) initial startup period or the § 63.2850(e)(2) malfunction period. Complete both plans before the compliance date for your source and keep them on-site and readily available as long as the source is operational.

(c) If your source processes any listed oilseed, record the items in paragraphs (c)(1) through (5) of this section:

(1) For the solvent inventory, record the information in paragraphs (c)(1)(i) through (vii) of this section in accordance with your plan for demonstrating compliance:

(i) Dates that define each operating status period during a calendar month.

(ii) The operating status of your source such as normal operation, nonoperating, initial startup period, malfunction period, or exempt operation for each recorded time interval.

(iii) Record the gallons of extraction solvent in the inventory on the beginning and ending dates of each normal operating period.

(iv) The gallons of all extraction solvent received, purchased, and recovered during each calendar month.

(v) All extraction solvent inventory adjustments, additions or subtractions. You must document the reason for the adjustment and justify the quantity of the adjustment.

(vi) The total solvent loss for each calendar month, regardless of the source operating status.

(vii) The actual solvent loss in gallons for each operating month.

(2) For the weighted average volume fraction of HAP in the extraction solvent, you must record the items in paragraphs (c)(2)(i) through (iii) of this section:

(i) The gallons of extraction solvent received in each delivery.

(ii) The volume fraction of each HAP exceeding 1 percent by volume in each delivery of extraction solvent.

(iii) The weighted average volume fraction of HAP in extraction solvent received since the end of the last operating month as determined in accordance with § 63.2854(b)(2).

(3) For each type of listed oilseed processed, record the items in paragraphs (c)(3)(i) through (vi) of this section, in accordance with your plan for demonstrating compliance:

(i) The dates that define each operating status period. These dates must be the same as the dates entered for the extraction solvent inventory.

(ii) The operating status of your 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 not being processed during a normal operating period, you must record which type of listed oilseed is being processed in addition to the source operating status.

(iii) The oilseed inventory for the type of listed oilseed being processed on the beginning and ending dates of each normal operating period.

(iv) The tons of each type of listed oilseed received at the affected source each normal operating period.

(v) All listed oilseed inventory adjustments, additions or subtractions for normal operating periods. You must document the reason for the adjustment and justify the quantity of the adjustment.

**SECTION E. Source Group Plan Approval Restrictions.**

(vi) The tons of each type of listed oilseed processed during each operating month.

(d) After your source has processed listed oilseed for 12 operating months, and you are not operating during an initial startup period as described in § 63.2850(c)(2) or (d)(2), or a malfunction period as described in § 63.2850(e)(2), record the items in paragraphs (d)(1) through (5) of this section by the end of the calendar month following each operating month:

(1) The 12 operating months rolling sum of the actual solvent loss in gallons as described in § 63.2853(c).

(2) The weighted average volume fraction of HAP in extraction solvent received for the previous 12 operating months as described in § 63.2854(b)(3).

(3) The 12 operating months rolling sum of each type of listed oilseed processed at the affected source in tons as described in § 63.2855(c).

(4) A determination of the compliance ratio. Using the values from §§ 63.2853, 63.2854, 63.2855, and Table 1 of § 63.2840, calculate the compliance ratio using Equation 2 of § 63.2840.

(5) A statement of whether the source is in compliance with all of the requirements of this subpart. This includes a determination of whether you have met all of the applicable requirements in § 63.2850.

(e) For each SSM event subject to an initial startup period as described in § 63.2850(c)(2) or (d)(2), or a malfunction period as described in § 63.2850(e)(2), record the items in paragraphs (e)(1) through (3) of this section by the end of the calendar month following each month in which the initial startup period or malfunction period occurred:

(1) A description and date of the SSM event, its duration, and reason it qualifies as an initial startup or malfunction.

(2) An estimate of the solvent loss in gallons for the duration of the initial startup or malfunction period with supporting documentation.

(3) A checklist or other mechanism to indicate whether the SSM plan was followed during the initial startup or malfunction period.

**V. REPORTING REQUIREMENTS.**

# 003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2860]

Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production

What notifications must I submit and when?

You must submit the one-time notifications listed in paragraphs (a) through (d) of this section to the responsible agency.

(a) [NA - SOURCE IS NEW]

(b) Initial notifications for new and reconstructed sources.

New or reconstructed sources must submit a series of notifications before, during, and after source construction per the schedule listed in § 63.9. The information requirements for the notifications are the same as those listed in the General Provisions with the exceptions listed in paragraphs (b)(1) and (2) of this section:

(1) The application for approval of construction does not require the specific HAP emission data required in § 63.5(d)(1)(ii)(H) and (iii), (d)(2) and (d)(3)(ii). The application for approval of construction would include, instead, a brief description of the source including the types of listed oilseeds processed, nominal operating capacity, and type of desolventizer(s) used.

(2) The notification of actual startup date must also include whether you have elected to operate under an initial startup period subject to § 63.2850(c)(2) and provide an estimate and justification for the anticipated duration of the initial startup period.

(c) [NA - SOURCE NOT UNDERGOING SIGNIFICANT MODIFICATION]

**SECTION E. Source Group Plan Approval Restrictions.****(d) Notification of compliance status.**

As an existing, new, or reconstructed source, you must submit a notification of compliance status report to the responsible agency no later than 60 days after determining your initial 12 operating months compliance ratio. If you are an existing source, you generally must submit this notification no later than 50 calendar months after the effective date of these NESHAP (36 calendar months for compliance, 12 operating months to record data, and 2 calendar months to complete the report). If you are a new or reconstructed source, the notification of compliance status is generally due no later than 20 calendar months after initial startup (6 calendar months for the initial startup period, 12 operating months to record data, and 2 calendar months to complete the report). The notification of compliance status must contain the items in paragraphs (d)(1) through (6) of this section:

- (1) The name and address of the owner or operator.
- (2) The physical address of the vegetable oil production process.
- (3) Each listed oilseed type processed during the previous 12 operating months.
- (4) Each HAP identified under § 63.2854(a) as being present in concentrations greater than 1 percent by volume in each delivery of solvent received during the 12 operating months period used for the initial compliance determination.
- (5) A statement designating the source as a major source of HAP or a demonstration that the source qualifies as an area source. An area source is a source that is not a major source and is not collocated within a plant site with other sources that are individually or collectively a major source.
- (6) A compliance certification indicating whether the source complied with all of the requirements of this subpart throughout the 12 operating months used for the initial source compliance determination. This certification must include a certification of the items in paragraphs (d)(6)(i) through (iii) of this section:
  - (i) The plan for demonstrating compliance (as described in § 63.2851) and SSM plan (as described in § 63.2852) are complete and available on-site for inspection.
  - (ii) You are following the procedures described in the plan for demonstrating compliance.
  - (iii) The compliance ratio is less than or equal to 1.00.

**# 004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2861]****Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production****What reports must I submit and when?**

After the initial notifications, you must submit the reports in paragraphs (a) through (d) of this section to the agency responsible for these NESHAP at the appropriate time intervals:

**(a) Annual compliance certifications.**

The first annual compliance certification is due 12 calendar months after you submit the notification of compliance status. Each subsequent annual compliance certification is due 12 calendar months after the previous annual compliance certification. The annual compliance certification provides the compliance status for each operating month during the 12 calendar months period ending 60 days prior to the date on which the report is due. Include the information in paragraphs (a)(1) through (6) of this section in the annual certification:

- (1) The name and address of the owner or operator.
- (2) The physical address of the vegetable oil production process.
- (3) Each listed oilseed type processed during the 12 calendar months period covered by the report.
- (4) Each HAP identified under § 63.2854(a) as being present in concentrations greater than 1 percent by volume in each

**SECTION E. Source Group Plan Approval Restrictions**

delivery of solvent received during the 12 calendar months period covered by the report.

(5) A statement designating the source as a major source of HAP or a demonstration that the source qualifies as an area source. An area source is a source that is not a major source and is not collocated within a plant site with other sources that are individually or collectively a major source.

(6) A compliance certification to indicate whether the source was in compliance for each compliance determination made during the 12 calendar months period covered by the report. For each such compliance determination, you must include a certification of the items in paragraphs (a)(6)(i) through (ii) of this section:

- (i) You are following the procedures described in the plan for demonstrating compliance.
- (ii) The compliance ratio is less than or equal to 1.00.

(b) Deviation notification report.

Submit a deviation report for each compliance determination you make in which the compliance ratio exceeds 1.00 as determined under § 63.2840(c). Submit the deviation report by the end of the month following the calendar month in which you determined the deviation. The deviation notification report must include the items in paragraphs (b)(1) through (4) of this section:

- (1) The name and address of the owner or operator.
- (2) The physical address of the vegetable oil production process.
- (3) Each listed oilseed type processed during the 12 operating months period for which you determined the deviation.
- (4) The compliance ratio comprising the deviation. You may reduce the frequency of submittal of the deviation notification report if the agency responsible for these NESHAP does not object as provided in § 63.10(e)(3)(iii).

(c) Periodic startup, shutdown, and malfunction report.

If you choose to operate your source under an initial startup period subject to § 63.2850(c)(2) or (d)(2) or a malfunction period subject to § 63.2850(e)(2), you must 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. The periodic SSM report must include the items in paragraphs (c)(1) through (3) of this section:

- (1) The name, title, and signature of a source's responsible official who is certifying that the report accurately states that all actions taken during the initial startup or malfunction period were consistent with the SSM plan.
- (2) A description of events occurring during the time period, the date and duration of the events, and reason the time interval qualifies as an initial startup period or malfunction period.
- (3) An estimate of the solvent loss during the initial startup or malfunction period with supporting documentation.

(d) Immediate SSM reports.

If you handle a SSM during an initial startup period subject to § 63.2850(c)(2) or (d)(2) or a malfunction period subject to § 63.2850(e)(2) differently from procedures in the SSM plan and the relevant emission requirements in § 63.2840 are exceeded, then you must submit an immediate SSM report. Immediate SSM reports consist of a telephone call or facsimile transmission to the responsible agency within 2 working days after starting actions inconsistent with the SSM plan, followed by a letter within 7 working days after the end of the event. The letter must include the items in paragraphs (d)(1) through (3) of this section:

- (1) The name, title, and signature of a source's responsible official who is certifying the accuracy of the report, an explanation of the event, and the reasons for not following the SSM plan.

**SECTION E. Source Group Plan Approval Restrictions.**

- (2) A description and date of the SSM event, its duration, and reason it qualifies as a SSM.
- (3) An estimate of the solvent loss for the duration of the SSM event with supporting documentation.

[66 FR 19011, Apr. 12, 2001, as amended at 67 FR 16321, Apr. 5, 2002]

**VI. WORK PRACTICE REQUIREMENTS.**

**# 005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2850]**

**Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production**

**How do I comply with the hazardous air pollutant emission standards?**

(a) General requirements.

The requirements in paragraphs (a)(1)(i) through (iv) of this section apply to all affected sources:

(1) Submit the necessary notifications in accordance with § 63.2860, which include:

- (i) [NA - SOURCE IS NEW]
- (ii) Initial notifications for new and reconstructed sources.
- (iii) Initial notifications for significant modifications to existing or new sources.
- (iv) Notification of compliance status.

(2) Develop and implement a plan for demonstrating compliance in accordance with § 63.2851.

(3) Develop a written startup, shutdown and malfunction (SSM) plan in accordance with the provisions in § 63.2852.

(4) Maintain all the necessary records you have used to demonstrate compliance with this subpart in accordance with § 63.2862.

(5) Submit the reports in paragraphs (a)(5)(i) through (iii) of this section:

- (i) Annual compliance certifications in accordance with § 63.2861(a).
- (ii) Periodic SSM reports in accordance with § 63.2861(c).
- (iii) Immediate SSM reports in accordance with § 63.2861(d).

(6) Submit all notifications and reports and maintain all records required by the General Provisions for performance testing if you add a control device that destroys solvent.  
63.2850

(b) [NA - SOURCE IS NEW]

(c) New sources.

Your new source, including a source that is categorized as new due to reconstruction, must meet the requirements associated with one of two compliance options. Within 15 days of the startup date, you must choose to comply with one of the options listed in paragraph (c)(1) or (2) of this section:

(1) Normal operation.

Upon startup of your new source, you must meet all of the requirements listed in § 63.2850(a) and table 1 of this section for sources under normal operation, and the schedules for demonstrating compliance for new sources under normal operation in table 2 of this section.

**SECTION E. Source Group Plan Approval Restrictions.****(2) Initial startup period.**

For up to 6 calendar months after the startup date of your new source, you must meet all of the requirements listed in paragraph (a) of this section and table 1 of this section for sources operating under an initial startup period, and the schedules for demonstrating compliance for new sources operating under an initial startup period in Table 2 of this section. After a maximum of 6 calendar months, your new source must then meet all of the requirements listed in table 1 of this section for sources under normal operation.

**(d) [NA - SOURCE IS NOT BEING SIGNIFICANTLY MODIFIED]****(e) Existing or new sources experiencing a malfunction.**

A malfunction is defined in § 63.2. In general, it means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or process equipment to function in a usual manner.

If your existing or new source experiences an unscheduled shutdown as a result of a malfunction, continues to operate during a malfunction (including the period reasonably necessary to correct the malfunction), or starts up after a shutdown resulting from a malfunction, then you must meet the requirements associated with one of two compliance options. Routine or scheduled process startups and shutdowns resulting from, but not limited to, market demands, maintenance activities, and switching types of oilseed processed, are not startups or shutdowns resulting from a malfunction and, therefore, do not qualify for this provision. Within 15 days of the beginning date of the malfunction, you must choose to comply with one of the options listed in paragraphs (e)(1) through (2) of this section:

**(1) Normal operation.**

Your source must meet all of the requirements listed in paragraph (a) of this section and one of the options listed in paragraphs (e)(1)(i) through (iii) of this section:

**(i) [NA - SOURCE IS NEW]****(ii) New source normal operation requirements in paragraph (c)(1) of this section.****(iii) [NA - SOURCE HAS NOT BEEN SIGNIFICANTLY MODIFIED]****(2) Malfunction period.**

Throughout the malfunction period, you must meet all of the requirements listed in paragraph (a) of this section and Table 1 of this section for sources operating during a malfunction period. At the end of the malfunction period, your source must then meet all of the requirements listed in table 1 of this section for sources under normal operation. Table 1 of this section follows:

Table 1 of § 63.2850—Requirements for Compliance with HAP Emission Standards - INCORPORATED BY REFERENCE

Table 2 of § 63.2850—Schedules for Demonstrating Compliance Under Various Source Operating Modes - INCORPORATED BY REFERENCE

[66 FR 19011, Apr. 12, 2001, as amended at 71 FR page 20463, Apr. 20, 2006]

# 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2851]

Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production

**What is a plan for demonstrating compliance?**

(a) You must develop and implement a written plan for demonstrating compliance that provides the detailed procedures you will follow to monitor and record data necessary for demonstrating compliance with this subpart. Procedures followed for quantifying solvent loss from the source and amount of oilseed processed vary from source to source because of site-specific factors such as equipment design characteristics and operating conditions. Typical procedures include one or more accurate measurement methods such as weigh scales, volumetric displacement, and material mass balances.

**SECTION E. Source Group Plan Approval Restrictions.**

Because the industry does not have a uniform set of procedures, you must develop and implement your own site-specific plan for demonstrating compliance before the compliance date for your source. You must also incorporate the plan for demonstrating compliance by reference in the source's title V permit and keep the plan on-site and readily available as long as the source is operational. If you make any changes to the plan for demonstrating compliance, then you must keep all previous versions of the plan and make them readily available for inspection for at least 5 years after each revision. The plan for demonstrating compliance must include the items in paragraphs (a)(1) through (7) of this section:

- (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 your source will use to determine your 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 you will use to determine your compliance status. Include examples of how you will 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.
- (b) The responsible agency of these NESHAP may require you to revise your plan for demonstrating compliance. The responsible agency may require reasonable revisions if the procedures lack detail, are inconsistent or do not accurately determine solvent loss, HAP content of the solvent, or the tons of oilseed processed.

**# 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2853]****Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production****How do I determine the actual solvent loss?**

By the end of each calendar month following an operating month, you must determine the total solvent loss in gallons for the previous operating month. The total solvent loss for an operating month includes all solvent losses that occur during normal operating periods within the operating month. If you have determined solvent losses for 12 or more operating months, then you must also determine the 12 operating months rolling sum of actual solvent loss in gallons by summing the monthly actual solvent loss for the previous 12 operating months. The 12 operating months rolling sum of solvent loss is the "actual solvent loss," which is used to calculate your compliance ratio as described in § 63.2840.

(a) To determine the actual solvent loss from your source, follow the procedures in your plan for demonstrating compliance to determine the items in paragraphs (a)(1) through (7) of this section:

- (1) The dates that define each operating status period during a calendar month.

The dates that define each operating status period include the beginning date of each calendar month and the date of any change in the source operating status. If the source maintains the same operating status during an entire calendar month, these dates are the beginning and ending dates of the calendar month. If, prior to the effective date of this rule, your source determines the solvent loss on an accounting month, as defined in § 63.2872, rather than a calendar month basis, and you have 12 complete accounting months of approximately equal duration in a calendar year, you may substitute the accounting month time interval for the calendar month time interval. If you choose to use an accounting month rather than a calendar month, you must document this measurement frequency selection in your plan for demonstrating compliance, and you must remain on this schedule unless you request and receive written approval from the agency responsible for these NESHAP.

- (2) Source operating status.

You must categorize the operating status of your source for each recorded time interval in accordance with criteria in Table 1 of this section, as follows:

**SECTION E. Source Group Plan Approval Restrictions.**

Table 1 of § 63.2853—Categorizing Your Source Operating Status: If during a recorded time interval . . .

(i) Your source processes any amount of listed oilseed and source is not operating under an initial startup operating period or a malfunction period subject to § 63.2850(c)(2), (d)(2), or (e)(2)

Then your source operating status is: A normal operating period.

(ii) Your source processes no agricultural product and your source is not operating under an initial startup period or malfunction period subject to § 63.2850(c)(2), (d)(2), or (e)(2)

Then your source operating status is: A nonoperating period.

(iii) You choose to operate your source under an initial startup period subject to § 63.2850(c)(2) or (d)(2)

Then your source operating status is: An initial startup period.

(iv) You choose to operate your source under a malfunction period subject to § 63.2850(e)(2)

Then your source operating status is: A malfunction period.

(v) Your source processes agricultural products not defined as listed oilseed

Then your source operating status is: An exempt period.

(3) Measuring the beginning and ending solvent inventory.

You are required to measure and record the solvent inventory on the beginning and ending dates of each normal operating period that occurs during an operating month. An operating month is any calendar month with at least one normal operating period. You must consistently follow the procedures described in your plan for demonstrating compliance, as specified in § 63.2851, to determine the extraction solvent inventory, and maintain readily available records of the actual solvent loss inventory, as described in § 63.2862(c)(1). In general, you must measure and record the solvent inventory only when the source is actively processing any type of agricultural product. When the source is not active, some or all of the solvent working capacity is transferred to solvent storage tanks which can artificially inflate the solvent inventory.

(4) Gallons of extraction solvent received.

Record the total gallons of extraction solvent received in each shipment. For most processes, the gallons of solvent received represents purchases of delivered solvent added to the solvent storage inventory. However, if your process refines additional vegetable oil from off-site sources, recovers solvent from the off-site oil, and adds it to the on-site solvent inventory, then you must determine the quantity of recovered solvent and include it in the gallons of extraction solvent received.

(5) Solvent inventory adjustments.

In some situations, solvent losses determined directly from the measured solvent inventory and quantity of solvent received is not an accurate estimate of the "actual solvent loss" for use in determining compliance ratios. In such cases, you may adjust the total solvent loss for each normal operating period as long as you provide a reasonable justification for the adjustment. Situations that may require adjustments of the total solvent loss include, but are not limited to, situations in paragraphs (a)(5)(i) and (ii) of this section:

(i) [NA - FACILITY DOES NOT PLAN TO CLAIM CONTROL DEVICE CREDIT]

(ii) Changes in solvent working capacity. In records you keep on-site, document any process modifications resulting in changes to the solvent working capacity in your vegetable oil production process. Solvent working capacity is defined in § 63.2872. In general, solvent working capacity is the volume of solvent normally retained in solvent recovery equipment such as the extractor, desolventizer-toaster, solvent storage, working tanks, mineral oil absorber, condensers, and oil/solvent distillation system. If the change occurs during a normal operating period, you must determine the difference in working solvent volume and make a one-time documented adjustment to the solvent inventory.

(b) Use Equation 1 of this section to determine the actual solvent loss occurring from your affected source for all normal operating periods recorded within a calendar month. Equation 1 of this section follows:

REFER TO REGULATION FOR EQUATION 1

**SECTION E. Source Group Plan Approval Restrictions.**

Where:

SOLVB= Gallons of solvent in the inventory at the beginning of normal operating period "i" as determined in paragraph(a)(3) of this section.

SOLVE= Gallons of solvent in the inventory at the end of normal operating period "i" as determined in paragraph(a)(3) of this section.

SOLVR= Gallons of solvent received between the beginning and ending inventory dates of normal operating period "i" as determined in paragraph (a)(4) of this section.

SOLVA= Gallons of solvent added or removed from the extraction solvent inventory during normal operating period "i" as determined in paragraph (a)(5) of this section.

n = Number of normal operating periods in a calendar month.

(c) The actual solvent loss is the total solvent losses during normal operating periods for the previous 12 operating months. You determine your actual solvent loss by summing the monthly actual solvent losses for the previous 12 operating months. You must record the actual solvent loss by the end of each calendar month following an operating month. Use the actual solvent loss in Equation 2 of § 63.2840 to determine the compliance ratio. Actual solvent loss does not include losses that occur during operating status periods listed in paragraphs (c)(1) through (4) of this section. If any one of these four operating status periods span an entire month, then the month is treated as nonoperating and there is no compliance ratio determination.

(1) Nonoperating periods as described in paragraph (a)(2)(ii) of this section.

(2) Initial startup periods as described in § 63.2850(c)(2) or (d)(2).

(3) Malfunction periods as described in § 63.2850(e)(2).

(4) Exempt operation periods as described in paragraph (a)(2)(v) of this section.

**# 008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2854]**

**Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production**

**How do I determine the weighted average volume fraction of HAP in the actual solvent loss?**

(a) This section describes the information and procedures you must use to determine the weighted average volume fraction of HAP in extraction solvent received for use in your vegetable oil production process. By the end of each calendar month following an operating month, determine the weighted average volume fraction of HAP in extraction solvent received since the end of the previous operating month. If you have determined the monthly weighted average volume fraction of HAP in solvent received for 12 or more operating months, then also determine an overall weighted average volume fraction of HAP in solvent received for the previous 12 operating months. Use the volume fraction of HAP determined as a 12 operating months weighted average in Equation 2 of § 63.2840 to determine the compliance ratio.

(b) To determine the volume fraction of HAP in the extraction solvent determined as a 12 operating months weighted average, you must comply with paragraphs (b)(1) through (3) of this section:

(1) Record the volume fraction of each HAP comprising more than 1 percent by volume of the solvent in each delivery of solvent, including solvent recovered from off-site oil. To determine the HAP content of the material in each delivery of solvent, the reference method is EPA Method 311 of appendix A of this part. You may use EPA Method 311, an approved alternative method, or any other reasonable means for determining the HAP content. Other reasonable means of determining HAP content include, but are not limited to, a material safety data sheet or a manufacturer's certificate of analysis. A certificate of analysis is a legal and binding document provided by a solvent manufacturer. The purpose of a certificate of analysis is to list the test methods and analytical results that determine chemical properties of the solvent and the volume percentage of all HAP components present in the solvent at quantities greater than 1 percent by volume. You are not required to test the materials that you use, but the Administrator may require a test using EPA Method 311 (or an approved alternative method) to confirm the reported HAP content. However, if the results of an analysis by EPA Method 311 are different from the HAP content determined by another means, the EPA Method 311 results will govern compliance determinations.

(2) Determine the weighted average volume fraction of HAP in the extraction solvent each operating month. The weighted average volume fraction of HAP for an operating month includes all solvent received since the end of the last operating month, regardless of the operating status at the time of the delivery. Determine the monthly weighted average volume

**SECTION E. Source Group Plan Approval Restrictions.**

fraction of HAP by summing the products of the HAP volume fraction of each delivery and the volume of each delivery and dividing the sum by the total volume of all deliveries as expressed in Equation 1 of this section. Record the result by the end of each calendar month following an operating month. Equation 1 of this section follows:

REFER TO REGULATION FOR EQUATION 1

Where:

Received<sub>i</sub> = Gallons of extraction solvent received in delivery "i."

Content<sub>i</sub> = The volume fraction of HAP in extraction solvent delivery "i."

Total Received = Total gallons of extraction solvent received since the end of the previous operating month.

n = Number of extraction solvent deliveries since the end of the previous operating month.

(3) Determine the volume fraction of HAP in your extraction solvent as a 12 operating months weighted average. When your source has processed oilseed for 12 operating months, sum the products of the monthly weighted average HAP volume fraction and corresponding volume of solvent received, and divide the sum by the total volume of solvent received for the 12 operating months, as expressed by Equation 2 of this section. Record the result by the end of each calendar month following an operating month and use it in Equation 2 of § 63.2840 to determine the compliance ratio. Equation 2 of this section follows:

REFER TO REGULATION FOR EQUATION 2

Where:

Received<sub>i</sub> = Gallons of extraction solvent received in operating month "i" as determined in accordance with § 63.2853(a)(4).

Content<sub>i</sub> = Average volume fraction of HAP in extraction solvent received in operating month "i" as determined in accordance with paragraph (b)(1) of this section.

Total Received = Total gallons of extraction solvent received during the previous 12 operating months.

**# 009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2855]**

**Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production**

**How do I determine the quantity of oilseed processed?**

All oilseed measurements must be determined on an as received basis, as defined in § 63.2872. The as received basis refers to the oilseed chemical and physical characteristics as initially received by the source and prior to any oilseed handling and processing. By the end of each calendar month following an operating month, you must determine the tons as received of each listed oilseed processed for the operating month. The total oilseed processed for an operating month includes the total of each oilseed processed during all normal operating periods that occur within the operating month. If you have determined the tons of oilseed processed for 12 or more operating months, then you must also determine the 12 operating months rolling sum of each type oilseed processed by summing the tons of each type of oilseed processed for the previous 12 operating months. The 12 operating months rolling sum of each type of oilseed processed is used to calculate the compliance ratio as described in § 63.2840.

(a) To determine the tons as received of each type of oilseed processed at your source, follow the procedures in your plan for demonstrating compliance to determine the items in paragraphs (a)(1) through (5) of this section:

(1) The dates that define each operating status period.

The dates that define each operating status period include the beginning date of each calendar month and the date of any change in the source operating status. If, prior to the effective date of this rule, your source determines the oilseed inventory on an accounting month rather than a calendar month basis, and you have 12 complete accounting months of approximately equal duration in a calendar year, you may substitute the accounting month time interval for the calendar month time interval. If you choose to use an accounting month rather than a calendar month, you must document this measurement frequency selection in your plan for demonstrating compliance, and you must remain on this schedule, unless you request and receive written approval from the agency responsible for these NESHAP. The dates on each oilseed inventory log must be consistent with the dates recorded for the solvent inventory.

(2) Source operating status.

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You must categorize the source operation for each recorded time interval. The source operating status for each time interval recorded on the oilseed inventory for each type of oilseed must be consistent with the operating status recorded on the solvent inventory logs as described in § 63.2853(a)(2).

- (3) Measuring the beginning and ending inventory for each oilseed.

You are required to measure and record the oilseed inventory on the beginning and ending dates of each normal operating period that occurs during an operating month. An operating month is any calendar month with at least one normal operating period. You must consistently follow the procedures described in your plan for demonstrating compliance, as specified in § 63.2851, to determine the oilseed inventory on an as received basis and maintain readily available records of the oilseed inventory as described by § 63.2862(c)(3).

- (4) Tons of each oilseed received.

Record the type of oilseed and tons of each shipment of oilseed received and added to your on-site storage.

- (5) Oilseed inventory adjustments.

In some situations, determining the quantity of oilseed processed directly from the measured oilseed inventory and quantity of oilseed received is not an accurate estimate of the tons of oilseed processed for use in determining compliance ratios. For example, spoiled and molded oilseed removed from storage but not processed by your source will result in an overestimate of the quantity of oilseed processed. In such cases, you must adjust the oilseed inventory and provide a justification for the adjustment. Situations that may require oilseed inventory adjustments include, but are not limited to, the situations listed in paragraphs(a)(5)(i) through (v) of this section:

- (i) Oilseed that mold or otherwise become unsuitable for processing.
- (ii) Oilseed you sell before it enters the processing operation.
- (iii) Oilseed destroyed by an event such as a process malfunction, fire, or natural disaster.
- (iv) Oilseed processed through operations prior to solvent extraction such as screening, dehulling, cracking, drying, and conditioning; but that are not routed to the solvent extractor for further processing.
- (v) Periodic physical measurements of inventory. For example, some sources periodically empty oilseed storage silos to physically measure the current oilseed inventory. This periodic measurement procedure typically results in a small inventory correction. The correction factor, usually less than 1 percent, may be used to make an adjustment to the source's oilseed inventory that was estimated previously with indirect measurement techniques. To make this adjustment, your plan for demonstrating compliance must provide for such an adjustment.

- (b) Use Equation 1 of this section to determine the quantity of each oilseed type processed at your affected source during normal operating periods recorded within a calendar month. Equation 1 of this section follows:

REFER TO REGULATION FOR EQUATION 1

Where:

SEEDB= Tons of oilseed in the inventory at the beginning of normal operating period "i" as determined in accordance with paragraph (a)(3) of this section.

SEEDE= Tons of oilseed in the inventory at the end of normal operating period "i" as determined in accordance with paragraph (a)(3) of this section.

SEEDR= Tons of oilseed received during normal operating period "i" as determined in accordance with paragraph (a)(4) of this section.

SEEDA= Tons of oilseed added or removed from the oilseed inventory during normal operating period "i" as determined in accordance with paragraph (a)(5) of this section.

n = Number of normal operating periods in the calendar month during which this type oilseed was processed.

- (c) The quantity of each oilseed processed is the total tons of each type of listed oilseed processed during normal

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operating periods in the previous 12 operating months. You determine the tons of each oilseed processed by summing the monthly quantity of each oilseed processed for the previous 12 operating months. You must record the 12 operating months quantity of each type of oilseed processed by the end of each calendar month following an operating month. Use the 12 operating months quantity of each type of oilseed processed to determine the compliance ratio as described in § 63.2840. The quantity of oilseed processed does not include oilseed processed during the operating status periods in paragraphs(c)(1) through (4) of this section:

- (1) Nonoperating periods as described in § 63.2853 (a)(2)(ii).
- (2) Initial startup periods as described in § 63.2850(c)(2) or (d)(2).
- (3) Malfunction periods as described in § 63.2850(e)(2).
- (4) Exempt operation periods as described in § 63.2853 (a)(2)(v).
- (5) If any one of these four operating status periods span an entire calendar month, then the calendar month is treated as a nonoperating month and there is no compliance ratio determination.

**VII. ADDITIONAL REQUIREMENTS.**

# 010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

In the event that the Federal Subpart that is the subject of this Source Group is revised, the permittee shall comply with the revised version of the subpart, and shall not be required to comply with any provisions in this permit designated as having the subpart as their authority, to the extent that such permit provisions would be inconsistent with the applicable provisions of the revised subpart.

# 011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2832]

Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production

Am I subject to this subpart?

(a) You are an affected source subject to this subpart if you meet all of the criteria listed in paragraphs (a)(1) and (2) of this section:

(1) You own or operate a vegetable oil production process that is a major source of HAP emissions or is collocated within a plant site with other sources that are individually or collectively a major source of HAP emissions.

(i) A vegetable oil production process is defined in § 63.2872. In general, it is the collection of continuous process equipment and activities that produce crude vegetable oil and meal products by removing oil from oilseeds listed in Table 1 to § 63.2840 through direct contact with an organic solvent, such as a hexane isomer blend.

(ii) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year.

(2) Your vegetable oil production process processes any combination of eight types of oilseeds listed in paragraphs (a)(2)(i) through (viii) of this section:

(i) - (vi) [NA - DOES NOT PROCESS THE TYPE OF LISTED OILSEEDS]

(vii) Soybean; and

(viii) [NA - DOES NOT PROCESS SUNFLOWER SEEDS]

(b) You are not subject to this subpart if your vegetable oil production process meets any of the criteria listed in paragraphs (b)(1) through (4) of this section:

- (1) It uses only mechanical extraction techniques that use no organic solvent to remove oil from a listed oilseed.

**SECTION E. Source Group Plan Approval Restrictions.**

- (2) It uses only batch solvent extraction and batch desolventizing equipment.
- (3) It processes only agricultural products that are not listed oilseeds as defined in § 63.2872.
- (4) It functions only as a research and development facility and is not a major source.

**(c) [NA - ALREADY A MAJOR SOURCE OF HAP EMISSIONS]****# 012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2833]****Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production**

Is my source categorized as existing or new?

(a) This subpart applies to each existing and new affected source. You must categorize your vegetable oil production process as either an existing or a new source in accordance with the criteria in Table 1 of this section, as follows:

Table 1 to § 63.2833—Categorizing Your Source as Existing or New

ITEM 6: If your affected source began construction on or after May 26, 2000, then your affected source is a new source

**(b) [NA - SOURCE ALREADY CATEGORIZED AS A NEW SOURCE]****(c) [NA - SOURCE ALREADY CATEGORIZED AS A NEW SOURCE]**

(d) Changes in the type of oilseed processed by your affected source does not affect the categorization of your source as new or existing. Recategorizing an affected source from existing to new occurs only when you add or modify process equipment within the source which meets the definition of reconstruction.

**# 013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2834]****Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production**

When do I have to comply with the standards in this subpart?

You must comply with this subpart in accordance with one of the schedules in Table 1 of this section, as follows:

TABLE 1 of § 63.2834—Compliance Dates for Existing and New Sources

**(a) - (b) [NA - CATERGORIZED AS NEW SOURCE]**

(c) If your affected source is categorized as a new source and if you startup your affected source on or after the effective date of this subpart, then your compliance date is your startup date.

**# 014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2852]****Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production**

What is a startup, shutdown, and malfunction plan?

You must develop a written SSM plan in accordance with § 63.6(e)(3). You must complete the SSM plan before the compliance date for your source. You must also keep the SSM plan on-site and readily available as long as the source is operational. The SSM plan provides detailed procedures for operating and maintaining your source to minimize emissions during a qualifying SSM event for which the source chooses the § 63.2850(e)(2) malfunction period, or the § 63.2850(c)(2) or (d)(2) initial startup period. The SSM plan must specify a program of corrective action for malfunctioning process and air pollution control equipment and reflect the best practices now in use by the industry to minimize emissions. Some or all of the procedures may come from plans you developed for other purposes such as a Standard Operating Procedure manual or an Occupational Safety and Health Administration Process Safety Management plan. To qualify as a SSM plan, other such plans must meet all the applicable requirements of these NESHAP.

[66 FR 19011, Apr. 12, 2001, as amended at 67 FR 16321, Apr. 5, 2002; 71 FR page 20463, Apr. 20, 2006]

**# 015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2863]****Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production**

**SECTION E. Source Group Plan Approval Restrictions.**

In what form and how long must I keep my records?

- (a) Your records must be in a form suitable and readily available for review in accordance with § 63.10(b)(1).
- (b) As specified in § 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
- (c) You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, in accordance with § 3.10(b)(1). You can keep the records off-site for the remaining 3 years.

# 016 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.2870]

Subpart GGGG - National Emission Standards for Hazardous Air Pollutants: Solvent Extraction for Vegetable Oil Production

What parts of the General Provisions apply to me?

Table 1 of this section shows which parts of the General Provisions in §§ 63.1 through 63.15 apply to you. Table 1 of 40 CFR 63.2870 is incorporated by reference.



**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GRP04  
Group Description: CAM Affected Sources  
Sources included in this group

ID	Name
201	SOYBEAN PREP PROCESS
203	FLAKING ROLLS
205A	MEAL DRYER
205B	MEAL COOLER
206	MEAL GRINDING & SCREENING

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

**# 001 [25 Pa. Code §127.12b]**  
Plan approval terms and conditions.

(a) The permittee shall use the approved process parameter(s) or indicator(s) to obtain data and monitor the emission control equipment performance.

- (1) Baghouse pressure differential (Control IDs: C201A, C201B, C201C, C201D, C201E, & C206)
- (2) Cyclone pressure differential (Control IDs: C203, C205A & C205B)
- (3) Visual emission check using a one (1) minute observation using the procedures of EPA Method 22.

(b) The permittee shall use the approved means or devices to measure the applicable indicator(s).

- (1) Pressure Drop - pressure gauges or manometers
- (2) Visual observations - an observer knowledgeable in EPA Method 22 procedures.

(c) The permittee shall use the approved frequency for condition monitoring of indicator(s).

- (1) Baghouse pressure differential - daily
- (2) Cyclone pressure differential - daily
- (3) Visible emission - once per week

(d) The permittee shall use the approved period over which discrete data points for approved indicator(s) will be collected for the purpose of determining an excursion.

- (1) Baghouse pressure differential recorded once per working day
- (2) Cyclone pressure differential recorded once per working day
- (3) Visible emission readings recorded once per week

[Additional authority for the following Compliance Assurance Monitoring (CAM) permit conditions is derived from 40 CFR Part 64.6]

**IV. RECORDKEEPING REQUIREMENTS.**

**# 002 [25 Pa. Code §127.12b]**  
Plan approval terms and conditions.

(a) The permittee shall maintain records of the following information:

- (1) Pressure differential across each baghouse - daily

**SECTION E. Source Group Plan Approval Restrictions.**

- (2) Pressure differential across each cyclone - daily
- (3) Visible emissions from each exhaust stack - weekly

(c) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective actions have been taken.

(1) An excursion for the baghouse indicator identified in Condition #001(a)(1) shall be defined as a measured pressure drop outside the range of 1.0 to 6.0 inches water.

(2) An excursion for the cyclone indicator identified in Condition #001(a)(2) shall be defined as a measured pressure drop outside the range of 2.0 to 6.0 inches water.

(3) An excursion for the visible emission inspections shall be defined as any visible emission.

(d) The permittee shall maintain records of all monitoring downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). The permittee shall also record the dates, times and durations, possible causes and corrective actions taken for the incidents.

(e) These records shall be maintained on site for the most recent five year period and made available to the Department upon request.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64, Section 64.9 and 40 CFR Part 70, Section 70.6(a)(3)(ii)(B)]

**V. REPORTING REQUIREMENTS.**

**# 003 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall report all excursions, corrective actions taken, dates, times, durations, and possible causes of the events to the Department, every six (6) months from the effective date of the permit.

(b) The permittee shall report all monitoring downtime incidents (other than downtime associated with zero span or other daily calibration checks, if applicable), their dates, times, durations, possible causes, and corrective actions taken, to the Department, every six months from the effective date of the permit.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64, Section 64.9 and 40 CFR Part 70, Section 70.6(a)(3)(iii)(A)]

**VI. WORK PRACTICE REQUIREMENTS.**

**# 004 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) The permittee shall use the approved range for each selected indicator in determining the appropriate operation of the sources. A departure from the specified indicator range shall be defined as an excursion.

- (1) Baghouse pressure differential shall be between 1.0 and 6.0 inches water
- (2) Cyclone pressure differential shall be between 2.0 and 6.0 inches water
- (3) Any visible emissions

(b) For QA/QC practices, the permittee shall calibrate and check the accuracy of monitoring equipment taking into account the manufacturer's specifications at approved time intervals.

- (1) Baghouse pressure differential gauge shall be calibrated annually
- (2) Cyclone pressure differential gauge shall be calibrated annually

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64, Sections 64.3 & 64.6]

**SECTION E. Source Group Plan Approval Restrictions.****VII. ADDITIONAL REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall develop and implement a quality improvement plan (QIP) as expeditiously as practicable if any of the following occurs:

- (1) Six (6) excursions of any given parameter, for any given source, occur in a six-month period.
- (2) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.
- (3) Failure to perform daily or weekly monitoring of any given parameter, for any given fabric filter dust collector or cyclone, for less than 95% of the required readings in a reporting period.

(b) The QIP shall be submitted to DEP within 60 days of the end of the relevant six-month reporting period. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(c) The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to, inspections, repairs and maintenance performed on the monitoring equipment.

(d) In accordance with 40 CFR Section 64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the QIP shall be modified to include procedures for conducting more frequent or improved monitoring in conjunction with one or more of the following:

- (1) Improved preventive maintenance practices.
- (2) Process operation changes.
- (3) Appropriate improvements to control methods.
- (4) Other steps appropriate to correct performance.

(e) Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

- (1) Address the cause of the control device performance problem.
- (2) Provide adequate procedures for correcting control device performance problems in as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(f) Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirements that apply under any federal, state, or local laws or any other applicable requirements under the Clean Air Act.

[Additional authority for this Compliance Assurance Monitoring (CAM) permit condition is also derived from 40 CFR Part 64, Sections 64.8 & 64.9]

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GRP05

Group Description: LAER Requirements

Sources included in this group

ID	Name
204	EXTRACTION PROCESS
205A	MEAL DRYER
205B	MEAL COOLER
206	MEAL GRINDING & SCREENING
207	MILL FEED (HULL) GRINDING
208	MEAL/MILL FEED STORAGE BINS
209	MEAL/MILL FEED LOADOUT TANK
210	MEAL LOADOUT AREA
212	HEXANE STORAGE TANKS

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) Pursuant to the Lowest Achievable Emission Rate (LAER), during the initial six month start-up and shake down period, the permittee shall limit the solvent loss to less than 36,750 gallons. Extension of the start-up and shakedown period may be approved in writing by DEP if Perdue provides a written request and justification that an extension is necessary due to start-up issues at the plant. In the event that Perdue elects to make such a request, the request shall be made in writing no later than 45 days prior to the end of the the startup and shakedown period. During any extension of the start-up and shakedown period, emissions shall be limited to a solvent loss ratio (SLR) of 0.140 gallons of solvent per ton of oilseed processed, averaged over an extension time period approved in writing by the Department. The solvent loss ratio shall be measured in accordance with 40 CFR 63.2853 and 63.2855. The start-up and shakedown period shall not be extended except with written approval from DEP.

(b) Pursuant to the Lowest Achievable Emission Rate (LAER), beginning on the month following the initial start-up and shake down period, the average plant-wide solvent loss ratio (SLR) shall not exceed 0.125 gallons of solvent per ton of oilseed processed based on any 12-month consecutive period. Solvent loss shall be determined in accordance with 40 CFR 63.2853 but not utilizing the exemption in (c)(3). The quantity of oilseed processed shall be determined in accordance with 40 CFR 63.2855 but not utilizing the exemption (c)(3).

(c) VOC emissions shall not exceed 208.05 tons per year on a 12 month rolling basis including the start-up and shake down period.

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) Pursuant to the Lowest Achievable Emission Rate (LAER) determination, the permittee shall not cause to be discharged into the atmosphere from:

- (1) Stack Id S204 - any gases which contain volatile organic compounds (VOCs) exceeding 1.65 lb VOC/hr, as hexane, as determined by approved stack testing.
- (2) Stack Id S205A - any gases which contain VOCs exceeding 11.51 lb VOC/hr, as hexane, as determined by approved stack testing.
- (3) Stack Id S205B - any gases which contain VOCs exceeding 5.76 lb VOC/hr, as hexane, as determined by approved stack testing.
- (4) Stack Id S206 - any gases which contain VOCs exceeding 1.42 lb VOC/hr, as hexane, as determined by approved stack testing.

(b) Pursuant to the Lowest Achievable Emission Rate (LAER) determination, the permittee shall limit annual VOC emissions from the following sources to:

**SECTION E. Source Group Plan Approval Restrictions.**

- (1) Source ID 204 - 7.24 tons based on any 12-month consecutive period
- (2) Source ID 205A - 50.42 tons based on any 12-month consecutive period
- (3) Source ID 205B - 25.21 tons based on any 12-month consecutive period
- (4) Source ID 206 - 6.20 tons based on any 12-month consecutive period

**Throughput Restriction(s).****# 003 [25 Pa. Code §127.12b]**

Plan approval terms and conditions.

(a) Pursuant to the Lowest Achievable Emission Rate (LAER) determination, the n-hexane concentration of the extraction solvent shall not exceed 50%, by weight, based on any 12-month rolling average.

(b) The permittee shall only utilize an extraction solvent labeled 45% n-hexane.

**Control Device Efficiency Restriction(s).****# 004 [25 Pa. Code §127.12b]**

Plan approval terms and conditions.

Unless otherwise approved by the Department in writing, the permittee shall maintain:

(a) The flow rate of the mineral oil absorber at the minimum flow rate recommended by the manufacturer.

(b) The 3-hour average temperature of the mineral oil at the minimum temperature recommended by the manufacturer.

(c) The flow rate of the mineral oil condenser's coolant at the minimum flow rate recommended by the manufacturer.

(d) The 3-hour average temperature of the mineral oil condenser's coolant at the minimum temperature recommended by the manufacturer.

**II. TESTING REQUIREMENTS.****# 005 [25 Pa. Code §127.12b]**

Plan approval terms and conditions.

Unless otherwise approved by the Department in writing, the permittee shall test Source IDs 204, 205A, 205B & 206 for VOC annually. The permittee shall perform the testing utilizing methodology outlined in 25 Pa. Code Section 139 and the Department's Source Testing Manual or by other means approved by the Department. The testing shall be done to demonstrate compliance with the VOC emission limits under Section E, Source Group ID SG05, Condition #002.

**III. MONITORING REQUIREMENTS.****# 006 [25 Pa. Code §127.12b]**

Plan approval terms and conditions.

(a) The permittee shall maintain instrumentation that measures, displays, and records the following from Control ID C204:

- (1) The mineral oil flowrate.
- (2) The mineral oil temperature.
- (3) The mineral oil condenser's coolant flowrate.
- (4) The mineral oil condenser's coolant temperature.

**# 007 [25 Pa. Code §127.12b]**

Plan approval terms and conditions.

(a) Unless otherwise approved in writing by DEP, Perdue shall conduct daily FID monitoring in ports installed in the following stacks: 204, 205A, 205B, & 206.

(b) The FID monitoring shall be conducted in accordance to the testing protocol submitted and approved by the Department under Section C, Condition #009(c). An FID reading shall be defined per the approved protocol.

(c) Perdue shall convert each FID reading taken pursuant to (b), into a lb/hr VOC emission rate according to those methods approved by the Department under Section C, Condition #009(c). The calculated values shall not be used to determine

**SECTION E. Source Group Plan Approval Restrictions.**

compliance with any lb/hr VOC emission limits. Only reference method source tests shall be used to determine compliance with any lb/hr VOC emission limits.

(d) Perdue shall keep records of all FID readings and calculated lb/hr values. If multiple FID readings are taken on a given day, pursuant to (b), above, then the highest reading taken on that day shall count as the official daily reading.

(e) In the event that any daily FID readings taken pursuant to (d) are calculated to be at or above the relevant lb/hr VOC emission limits, or are not taken, this shall be designated as an excursion.

(f) In the event that 2 percent of the daily FID readings taken pursuant to (d) are designated as excursions during any calendar half in any respective stack, Perdue shall notify DEP within 3 calendar days after the last exceedence, and shall prepare and submit an FID Reading Response Plan within 30 days of the notice of exceedence. The plan shall include, but not limited to, analysis of possible cause(s) of the excursion(s), and corrective actions to prevent further excursion(s). This process shall be repeated if, within the same calendar half, 2 more percent of the daily FID readings taken pursuant to (d) are designated as excursions in any respective stack.

(g) In the event that 5 percent of the daily FID readings taken pursuant to (d) are calculated to be at or above the relevant lb/hr VOC emission limits during any calendar half in any respective stack, Perdue shall conduct performance testing in accordance with methodology outlined in 25 Pa. Code Section 139 and the Department's Source Testing Manual for VOC. Testing shall be performed within 90 days after the last exceedence, unless otherwise approved in writing by the Department. The Department reserves the right to require additional actions by Perdue with regard to a pattern of excursions, if the Department determines that the pattern may substantially affect the source's ability to meet the emission limits.

(h) Perdue shall report the following to the DEP within 30 days after the end of each calendar half:

- (1) Daily FID readings in ppmvd, as hexane
- (2) Calculated lb/hr VOC emission rate
- (3) Any excursions of the lb/hr VOC emission rate
- (4) Percentage of daily FID readings compared to the number of days in the calendar half, which exhibited excursions

(i) In the event that all FID readings taken pursuant to (d), at any of the designated locations are calculated to be less than 50% of the allowable lb/hr VOC emission limits for 12-consecutive months, Perdue may petition the Department for a decreased FID monitoring frequency for the relevant location. Any such petition shall include technical reasons justifying each aspect of the request, and shall specify under what circumstances the FID monitoring frequency shall be increased if, in the future, an increase is observed in VOC emission levels. Also, in the event that 3 years of FID readings taken pursuant to (d), at any of the designated locations are all calculated to be less than 100% of the allowable lb/hr VOC emission limits, Perdue may petition the Department for a decreased FID monitoring frequency for the relevant location.

**IV. RECORDKEEPING REQUIREMENTS.**

# 008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall record the following:

- (1) The solvent inventory levels in the hexane storage tanks - daily
- (2) The amount of soybean oil produced - daily
- (3) The amount of soybean meal produced -daily
- (4) The mineral oil flow rate - daily
- (5) The mineral oil temperature - continuous & 3-hour average
- (6) The mineral oil condenser's coolant flow rate - daily
- (7) The mineral oil condenser's coolant temperature - continuous & 3-hour average
- (8) VOC emissions from Source ID 204 - monthly & rolling 12-month total
- (9) VOC emissions from Source ID 205A - monthly & rolling 12-month total
- (10) VOC emissions from Source ID 205B - monthly & rolling 12-month total
- (11) VOC emissions from Source ID 206 - monthly & rolling 12-month total

(b) The permittee shall record the following for each solvent delivery:

**SECTION E. Source Group Plan Approval Restrictions.**

- (1) The name and address of the solvent supplier
- (2) The type of solvent including the product or vendor identification number
- (3) The n-hexane concentration, by weight

(c) The permittee shall retain these records for a minimum of five (5) years and shall make them available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**VI. WORK PRACTICE REQUIREMENTS.**

# 009 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Pursuant to the Lowest Achievable Emission Rate (LAER) determination, breathing and working losses from the hexane storage tanks (Source ID 212) shall always be captured and vented to the mineral oil scrubber (Control ID C204).

**VII. ADDITIONAL REQUIREMENTS.**

# 010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Leak, Detection & Repair (LDAR) Requirements:

**(a) MONITORING**

(1) Within 60 days of achieving full production but no later than 180 days after initial startup of the solvent extraction facility, the permittee shall prepare & implement a Leak Detection & Repair (LDAR) program to minimize fugitive VOC losses from equipment leaks. The written LDAR program shall be made available to the Department upon request.

(2) The LDAR program shall, at a minimum, employ the following:

(i) A list of equipment and respective identification numbers which will be monitored.

(ii) A list of equipment and respective identification numbers of equipment operating under negative pressure and equipment deemed dangerous to monitor.

(iii) The permittee shall check equipment that contains hexane on a daily basis for any signs of a leak, based on Audible, Visual, and Olfactory (AVO) inspections. Equipment to be checked shall include but not be limited to, storage tanks, pumps, piping, duct work, enclosed conveyors, valves, flanges, seals, sight glasses and process equipment, as well as the extractor, DT, dryer-cooler, distillation equipment, condensers, and heat exchangers. Should an inspection detect any signs of a leak, the permittee shall take those steps necessary to determine if a leak exists and take appropriate action as specified below in this condition.

(iv) The permittee shall install four (4) fixed-location flammable gas monitors or other leak detection monitoring devices approved by the Department in the solvent extraction area. The fixed-location monitors shall be placed in low lying areas in close proximity to likely fugitive emission sources. The permittee shall maintain an inventory of spare parts for the monitors in order to ensure consistent operation. The flammable gas monitors shall be set to audible and visual alarm at 100 parts per million (ppm) as methane. A representative reading shall be taken and recorded from each monitor daily. Calibration checks shall be performed at a minimum of monthly intervals to ensure the monitors alarm at the 100 ppm level. Should a monitor alarm be triggered, the permittee shall determine the source of the emissions and take appropriate action as specified below in this condition, if a leak is then confirmed instrumentally.

(v) The permittee shall perform a leak check for equipment containing hexane within 60 days of full production but no later than 180 days of initial start-up and as specified in (A) – (D), below, thereafter using an optical gas imaging camera such as a FLIR camera or a gas leak detector capable of reading hexane concentrations in air at the equivalent concentration of 0% to 5% methane with an accuracy of +/- 0.2%. The owner/operator may request, in writing, the use of other leak detection monitoring devices, approved, in writing, by the Department. A leak is defined as an instrument reading

**SECTION E. Source Group Plan Approval Restrictions.**

of 500 ppm as methane above the background concentration.

(A) Initial monthly monitoring, for a minimum of 12 consecutive months

(B) After the initial 12 month period for non-leaking components, quarterly monitoring

(C) After any leak is observed, the monitoring frequency will revert to monthly until no leaks are shown for 12 consecutive months, then may return to quarterly

(D) The Department may alter the monitoring frequency if detections demonstrate a change is warranted

(vi) The portable gas leak detectors used in (v) above, shall be operated in accordance with manufacturer-recommended procedures and:

(A) Optical gas imaging cameras shall be operated and calibrated according to 40 CFR 60.18(g) and be able to detect hexane at a minimum sensitivity of:

- i. 100 grams/hour for the monthly monitoring frequency
- ii. 60 grams/hour for quarterly or longer monitoring frequencies

(B) Portable gas leak detectors shall be operated and calibrated according to 40 CFR Part 60, Appendix A, Method 21 and be able to detect hexane at a minimum sensitivity of 100 ppm methane equivalent

(vii) A release from any equipment or component designed by the manufacturer to protect the equipment, controller(s), safety of personnel, to prevent ground water contamination, or an emergency situation is not considered a leak

(viii) Damaged or leaking components shall be tagged with weatherproof and readily visible tags bearing an identification number and the date the leak was detected. The tags must remain in place until the leaking component is repaired. Tagging of difficult-to-monitor leaking components may be done by reference tagging. The reference tag should be located as close as possible to the leaking component and should clearly identify the leaking component and its location.

(ix) The first attempt at repair shall be required for all leaking components within 5 days of detection and the repair shall be completed within 15 days for all components unless the repair would require a unit shutdown that would create more emissions than the repair would eliminate, and if so, the repair may be delayed until the next scheduled shutdown, except the first attempt at repair for:

(A) Any leak > 10,000 ppmv and < 25,000 ppmv -- 2 days;

(B) Atmospheric pressure relief device leak without a rupture disk > 500 and < 25,000 ppmv -- 2 days;

(C) Any leak > 25,000 ppmv -- 1 day;

(x) A leak is considered repaired if one of the following can be demonstrated:

(A) A VOC concentration of 500 ppm as methane or less using a gas leak detector;

(B) No visible leak image when using an optical gas imaging camera able to detect hexane at a minimum sensitivity of 60 grams/hour within the distance determined during the instrument check procedure;

(C) No bubbling at leak interface using a soap solution bubble test specified in EPA Method 21; or a procedure based on the formation of bubbles in a soap solution that is sprayed on a potential leak source may be used for those sources that do not have continuously moving parts and that do not have a surface temperature greater than the boiling point or less than the freezing point of the soap solution; or

(D) Any other method approved, in writing, by the Department

(b) RECORDS

**SECTION E. Source Group Plan Approval Restrictions.**

(1) The permittee shall record, at a minimum, the following:

- (i) Each daily AVO inspection
- (ii) Each daily representative fixed-location flammable gas monitor readings
- (iii) The initial and periodic leak checks of equipment

(2) Each daily observation/reading shall be recorded and shall be signed and dated by the person that conducted the inspection/reading

(3) If leaks are observed, the nature, identification number and measured concentration (ppm) of the observed leak shall be recorded along with documentation regarding corrective actions

(4) The permittee shall retain these records for a minimum of five (5) years. The records shall be made available to the Department upon request.

(c) REPORTS

(1) The owner/ operator must submit a written request to the Southcentral Regional Office for an extension of LDAR deadlines. This includes extensions required due to facility shutdowns and/or the ordering of replacement parts. The written request shall also include the reason(s) for the extension request and the schedule for completion of the repairs. The Department may grant an extension of the LDAR deadlines based upon the written request.

# 011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Each respective stack associated with Source IDs 204, 205A, 205B & 206 shall be vertical in nature and shall not be equipped with a raincap.



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.



**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.

**SECTION H. Miscellaneous.**

#001

Source ID 101, Grain Receiving/Processing, consists of the following:

- one (1) enclosed truck receiving area containing 2 pits. The receiving area is rated at 600 tph and will be controlled by a 30,000 acfm Airlanco Model 236RLP10 baghouse or equivalent
- two (2) Hayes-Stolz scalper screens. The screens will be fully enclosed, however, miscellaneous dust pick-up points will be controlled by the Airlanco baghouse
- enclosed drag conveyance, handling, and turn-head system controlled by the Airlanco baghouse

#002

Source ID 102, Wet Grain Storage Bins, consists of:

- four (4) 30,000 bushel storage bins. The bins will be equipped with collapsible fabric filters

#003

Source IDs 103 &amp; 104, Grain Dryer Nos. 1 &amp; 2, consist of:

- two (2) 4,800 bushel/hr Shanzer Model 8P7 column dryers. Each dryer is rated at 39.5 mmBtu and will be fired on natural gas or propane, or indirectly heated using steam.

#004

Source ID 105, Grain Storage Bins, consists of the following:

- four (4) 500,000 bushel storage bins

#005

Source ID 106, Grain Loadout, consists of:

- one (1) 120 tph gravity-fed truck loadout spout

#006

Source ID 201, Soybean Prep Process, consists of the following equipment, all of which are controlled by controlled by five (5) 12,500 acfm Airlanco model 236/158RLP8 baghouses or equivalent:

- One (1) Rotex 822GC or equivalent cleaner screen
- One (1) 10' square x 20' height Highland or equivalent whole bean tank. The capacity of the tank is 75 tons.
- One (1) 10' square x 20' height Highland or equivalent cracked bean tank. The capacity of the tank is 75 tons.
- Three (3) Roskamp 12 x 52 or equivalent cracking rolls
- Six (6) Cantrell 241D or equivalent primary separation tables
- Two (2) Triple S Model T-20 or equivalent secondary separation tables

#007

Source ID 202, Bean Conditioning, consists of the following:

- One (1) 68.54 tph Crown Iron Works Model 95-7 or equivalent bean conditioner. The conditioner utilizes steam to heat the soybeans and is controlled by one of the five 12,500 Airlanco model 236/158RLP8 baghouses or equivalent baghouses in the soybean preparation area.

#008

Source ID 203, Flaking Rolls, consists of the following:

- Five (5) 68.54 tph Roskamp 28 x 62 or equivalent flaking rolls. The rolls are controlled by an 18,000 acfm Aircon model HE-54 or equivalent cyclone.

#009

Source ID 204, Extraction Process, consists of the following equipment which is controlled by a 500 acfm Desmet counter-current packed bed mineral scrubber:

- One (1) Desmet 372 RE Reflex oil extractor
- One (1) Desmet Dimax DT-4000 desolventizer-toaster

#010

Source ID 205A, Meal Dryer, consists of the following:

- One (1) 59 tph Desmet meal dryer controlled by a 23,540 acfm Kice model CK-108 or equivalent cyclone.

#011

Source ID 205B, Meal Cooler, consists of the following:

- One (1) 59 tph Desmet 4-deck meal cooler controlled by a 23,540 acfm Kice model CK-108 or equivalent cyclone.

**SECTION H. Miscellaneous.**

#012

Source ID 206, Meal Grinding & Screening, consists of the following equipment which is controlled by a 12,500 acfm Airlanco model 188RLP8 or equivalent baghouse:

- One (1) Rotex Model 581 or equivalent screener
- Two (2) Roskamp Model 4424 or equivalent grinder hammermills

#013

Source ID 207, Mill Feed (Hull) Grinding, consists of the following which are controlled by a 7,000 acfm Airlanco model 124RLP8 or equivalent baghouse:

- One (1) custom fabricated hull conditioner
- Two (2) Roskamp Model 4424 or equivalent hull grinders

#014

Source ID 208, Meal/Mill Feed Storage Bins, consists of the following:

- Four (4) CST or equivalent storage bins 500 ton meal, 300 ton mill feed. The bins will be equipped with bin vent filters.

#015

Source ID 209, Meal/Mill Feed Loadout Tank, consists of the following:

- One (1) Lamco/Intersystems or equivalent 4-bin cluster (10' square x 40' height). The 300 ton tank will be equipped with bin vent filters.

#016

Source ID 210, Meal Loadout Area, consists of the following:

- One (1) CST or equivalent 4-bin cluster (20' square x 20' height). The area will be controlled by a 30,000 acfm Airlanco model 236RLP12 or equivalent baghouse
- One (1) 85' x 210' meal storage/loadout building. Conveyors to the building will be fully enclosed. Additionally, all truck loading will be done only when the doors and/or plastic strips are maintained in the closed position.

#017

Source ID 211, Soybean Day Tanks, consists of the following:

- Three (3) Chief CB 12-16 or equivalent storage bins. Each bin has a capacity of 1,500 tons and will be equipped with collapsible bin vent filters.

#018

Source ID 212, Hexane Storage Tanks, consists of the following:

- Two (2) 20,000 gallon Highland Tank or equivalent hexane storage tanks. Breathing and working losses will be vented to and controlled by the mineral oil scrubber.

#019

The capacities and throughputs listed in the Site Inventory List in Section A and Headers of the sources in Section D, are for information only and are not operating limits unless there are specific conditions within the permit that sets limits on a source.

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\*\*\*\*\* End of Report \*\*\*\*\*

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