

**STATE OF MISSISSIPPI  
AIR POLLUTION CONTROL  
TITLE V PERMIT**

**TO OPERATE AIR EMISSIONS EQUIPMENT**

**THIS CERTIFIES THAT**

Express Grain Terminals LLC  
2015 West River Road  
Greenwood, Mississippi  
Leflore County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with Title V of the Federal Clean Air Act (42 U.S.C.A. § 7401 - 7671) and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

**Permit Issued: October 9, 2012**

**Modification: September 24, 2015 (name change/transfer)**

**Effective Date: As specified herein.**

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**



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**AUTHORIZED SIGNATURE**

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Expires: September 30, 2017**

**Permit No.: 1560-00050**

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**APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT**

**APPENDIX B VEGETABEL OIL MACT COMPLIANCE PLAN (per 40 CFR 63, Subpart GGGG)**

**APPENDIX C COMPLIANCE ASSURANCE MONITORING (CAM) PLAN**

## SECTION 1. GENERAL CONDITIONS

- 1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (Ref.: APC-S-6, Section III.A.6.a.)
- 1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (Ref.: APC-S-6, Section III.A.6.b.)
- 1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (Ref.: APC-S-6, Section III.A.6.c.)
- 1.4 This permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: APC-S-6, Section III.A.6.d.)
- 1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. (Ref.: APC-S-6, Section III.A.6.e.)
- 1.6 The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref.: APC-S-6, Section III.A.5.)
- 1.7 The permittee shall pay to the DEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation APC-S-6.
  - (a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant for calculating actual emissions fails to reasonably represent actual

emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission. (Ref.: APC-S-6, Section VI.A.2.)

- (b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee. (Ref.: APC-S-6, Section VI.A.2.) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time. (Ref.: APC-S-6, Section VI.D.2.)
- (c) The fee shall be due September 1 of each year. By July 1 of each year the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due. (Ref.: APC-S-6, Section VI.D.)
- (d) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition. (Ref.: APC-S-6, Section VI.C.)

1.8 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (Ref.: APC-S-6, Section III.A.8.)

1.9 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (Ref.: APC-S-6, Section II.E.)

1.10 The permittee shall allow the DEQ, or an authorized representative, upon the

presentation of credentials and other documents as may be required by law, to perform the following:

- (a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
- (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. (Ref.: APC-S-6, Section III.C.2.)

1.11 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere. (Ref.: APC-S-1, Section 3.9(a))

1.12 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970. (Ref.: APC-S-1, Section 3.9(b))

1.13 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source. (Ref.: APC-S-6, Section III.F.1.)

1.14 Nothing in this permit shall alter or affect the following:

- (a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;
- (b) the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- (c) the applicable requirements of the acid rain program, consistent with Section 408(a) of the Federal Act.
- (d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act. (Ref.: APC-S-6, Section III.F.2.)

- 1.15 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan. (Ref.: APC-S-6, Section III.H.)
- 1.16 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application. (Ref.: APC-S-6, Section IV.C.2., Section IV.B., and Section II.A.1.c.)
- 1.17 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:
- (a) the changes are not modifications under any provision of Title I of the Act;
  - (b) the changes do not exceed the emissions allowable under this permit;
  - (c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:
    - (1) a brief description of the change(s),
    - (2) the date on which the change will occur,
    - (3) any change in emissions, and
    - (4) any permit term or condition that is no longer applicable as a result of the change;
  - (d) the permit shield shall not apply to any Section 502(b)(10) change. (Ref.: APC-S-6, Section IV.F.)
- 1.18 Should the Executive Director of the Mississippi Department of Environmental Quality declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in Regulation APC-S-3, "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: APC-S-3)
- 1.19 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations APC-S-2, "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and

may require modification of this permit in accordance with Regulations APC-S-6, "Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act". Modification is defined as "[a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:

- (a) routine maintenance, repair, and replacement;
- (b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
- (d) use of an alternative fuel or raw material by a stationary source which:
  - (1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or
  - (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166;
- (e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or
- (f) any change in ownership of the stationary source."

1.20 Any change in ownership or operational control must be approved by the Permit Board. (Ref.: APC-S-6, Section IV.D.4.)

1.21 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission. (Ref.: APC-S-6, Section III.B.1)

1.22 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not apply to infrequent burning of agricultural wastes in the field, silvicultural wastes for forest management purposes, land-clearing debris, debris from emergency clean-up

operations, and ordnance. Open burning of land-clearing debris must not use starter or auxiliary fuels which cause excessive smoke (rubber tires, plastics, etc.); must not be performed if prohibited by local ordinances; must not cause a traffic hazard; must not take place where there is a High Fire Danger Alert declared by the Mississippi Forestry Commission or Emergency Air Pollution Episode Alert imposed by the Executive Director and must meet the following buffer zones.

- (a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.
- (b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within 50 yards of an occupied dwelling.
- (c) Burning must not occur within 500 yards of commercial airport property, private air fields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator. (Ref.: APC-S-1, Section 3.7)

1.23 Except as otherwise specified herein, the permittee shall be subject to the following provision with respect to emergencies.

- (a) Except as otherwise specified herein, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
- (b) An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.
- (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
  - (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - (2) the permitted facility was at the time being properly operated;
  - (3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and



- (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
  - (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
  - (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein. (Ref.: APC-S-6, Section III.G.)
- 1.24 Except as otherwise specified herein, the permittee shall be subject to the following provisions with respect to upsets, startups, shutdowns and maintenance.
- (a) Upsets (as defined by APC-S-1, Section 2.37)
    - (1) The occurrence of an upset constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards or other requirements of Applicable Rules and Regulations or any applicable permit if the permittee demonstrates through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
      - (i) an upset occurred and that the permittee can identify the cause(s) of the upset;
      - (ii) the source was at the time being properly operated;
      - (iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;
      - (iv) the permittee submitted notice of the upset to the DEQ within 5 working days of the time the upset began; and
      - (v) the notice of the upset shall contain a description of the upset, any steps taken to mitigate emissions, and corrective actions taken.
    - (2) In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
    - (3) This provision is in addition to any upset provision contained in any applicable requirement.
  - (b) Startups and Shutdowns (as defined by APC-S-1, Sections 2.34 & 2.29)

- (1) Startups and shutdowns are part of normal source operation. Emissions limitations applicable to normal operation apply during startups and shutdowns except as follows:
    - (i) when sudden, unavoidable breakdowns occur during a startup or shutdown, the event may be classified as an upset subject to the requirements above;
    - (ii) when a startup or shutdown is infrequent, the duration of excess emissions is brief in each event, and the design of the source is such that the period of excess emissions cannot be avoided without causing damage to equipment or persons; or
    - (iii) when the emissions standards applicable during a startup or shutdown are defined by other requirements of Applicable Rules and Regulations or any applicable permit.
  - (2) In any enforcement proceeding, the permittee seeking to establish the applicability of any exception during a startup or shutdown has the burden of proof.
  - (3) In the event this startup and shutdown provision conflicts with another applicable requirement, the more stringent requirement shall apply.
- (c) Maintenance.
- (1) Maintenance should be performed during planned shutdown or repair of process equipment such that excess emissions are avoided. Unavoidable maintenance that results in brief periods of excess emissions and that is necessary to prevent or minimize emergency conditions or equipment malfunctions constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards, or other regulatory requirements if the permittee can demonstrate the following:
    - (i) the permittee can identify the need for the maintenance;
    - (ii) the source was at the time being properly operated;
    - (iii) during the maintenance the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;
    - (iv) the permittee submitted notice of the maintenance to the DEQ within 5 working days of the time the maintenance began or such other times as allowed by DEQ; and
    - (v) the notice shall contain a description of the maintenance, any steps

taken to mitigate emissions, and corrective actions taken.

- (2) In any enforcement proceeding, the permittee seeking to establish the applicability of this section has the burden of proof.
- (3) In the event this maintenance provision conflicts with another applicable requirement, the more stringent requirement shall apply. (Ref.: APC-S-1, Section 10)

1.25 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M, as adopted by reference in Regulation APC-S-1, Section 8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

## SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

| Emission Point  | Description   |
|-----------------|---|
| AA-001          | 25.11 MMBTU/hr Natural Gas or No. 2 Fuel Oil Fired Process Steam Boiler                       |
| AA-002          | 25.11 MMBTU/hr Natural Gas or No. 2 Fuel Oil Fired Process Steam Boiler                       |
| AB-001          | Oilseed Receiving Dump – West Dump  |
| AB-002          | Oilseed Receiving Dump – East Dump  |
| AB-003          | Cottonseed Receiving Dump – Far Dump, equipped with a cyclone that vents inside the building. |
| AB-005          | Soybean/Black Seed Receiving Pit  |
| AB-006          | Oilseed/Meal Railcar Receiving Pit  |
| AC-001 – AC-008 | Seed Houses No. 1 through No. 8   |
| AC-009          | Hull House  |
| AC-010          | Meal House  |
| AC-011          | Hammermill Dust   |
| AC-012          | Baler Room Dust   |
| AD-001 – AD-003 | Cottonseed Storage Tanks No. 1 through No. 3  |
| AD-006 – AD-009 | Soybean/Black Seed Storage Tanks No. 1 through No. 4  |
| AD-010          | Day Bin Oilseed Storage Tank  |
| AD-011          | Soybean/White Seed Storage Tank   |
| AD-12           | Oilseed Meats Tank  |
| AD-013          | Meal Tanks  |
| AE-001          | Soybean/Seed Tank No. 1 Overflow Spout  |
| AE-002          | Soybean/Day Bin Overflow Spout  |
| AE-003          | Soybean/White Seed Surge Tank Overflow Spout  |
| AE-004          | Soybean/Black Seed Tank Overflow Spout – North  |
| AE-005          | Soybean/Black Seed Tank Overflow Spout – South  |
| AE-006          | Meats Tank Overflow Spout   |
| AE-007          | Meats Drop Overflow Spout   |
| AF-001 – AF-005 | Seed Cleaner Cyclones   |
| AG-001 – AG-014 | A-Side Delinting Cyclones   |
| AI-001 – AI-003 | Lint Transfer Cyclones  |
| AJ-001 – AJ-003 | Solvent Extraction Plant Dryer/Cooler Cyclones  |
| AJ-004          | The Solvent Extraction Plant Final Vent   |

| Emission Point                       | Description   |
|--------------------------------------|---|
| AJ-005                               | The Solvent Extraction Plant fugitive emissions and two (2) hexane storage tanks (15,863 and 14,700 gallons) constructed prior to 1984                            |
| AK-001                               | Outr-A-Vac Filtration System  |
| AK-002                               | Outr-A-Vac Filtration System  |
| AK-003                               | Outr-A-Vac Filtration System  |
| AL-001                               | Meal Loadout  |
| AL-005                               | Hull Loadout  |
| AL-010                               | Loadout of Cottonseed to Trucks   |
| AL-011                               | Soybean Hulls/Black Seed Loadout  |
| AL-015                               | Cottonseed Loadout to Railcars, which includes emissions associated with the process that are not collected by the Cottonseed Loadout to Railcar Cyclone (AL-016) |
| AL-016                               | Cottonseed Loadout to Railcar Cyclone   |
| AM-001 – AM-003 &<br>AM-005 – AM-008 | Seed House Cooling Fans   |
| AN-001                               | Fugitive emissions from vehicle traffic   |

### SECTION 3. EMISSION LIMITATIONS & STANDARDS

#### A. Facility-Wide Emission Limitations & Standards

3.A.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).

- (a) Startup operations may produce emissions which exceed 40% opacity for up to fifteen (15) minutes per startup in any one hour and not to exceed three (3) startups per stack in any twenty-four (24) hour period.
- (b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour. (Ref.: APC-S-1, Section 3.1)

3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Paragraph 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: APC-S-1, Section 3.2)

#### B. Emission Point Specific Emission Limitations & Standards

| Emission Point(s) | Applicable Requirement  | Condition Number(s) | Pollutant/Parameter                                  | Limit/Standard   |
|-------------------|---|---------------------|--|--|
| AA-001, AA-002    | APC-S-1, Section 3.4(a)(2)  | 3.B.1               | PM/ PM <sub>10</sub>                                 | $E = 0.8808 * I^{-0.1667}$   |
|                   | APC-S-1, Section 4.1(a)   | 3.B.2               | SO <sub>2</sub>                                      | 4.8 lbs/MMBTU  |
|                   | TVOP issued June 6, 2007  | 3.B.3               | Sulfur Content                                       | ≤ 0.5 percent by weight  |
| AA-001, AA-002    | 40 CFR 63, Subpart DDDDD (§63.7480-7575)                                    | 3.B.4               | Vary depending on fuel usage                         | Emission limits, work practices, and operating limits are provided in Tables 2, 3, and 4 of Subpart DDDDD. |
| Facility-Wide     | APC-S-1, Section 3.6(a) and TVOP issued June 6, 2007                        | 3.B.5               | PM/ PM <sub>10</sub>                                 | $E = 4.1 (p)^{0.67}$ , where p shall not exceed an oilseed receiving rate of <b>450 tons/hour</b> .        |
|                   |   | 3.B.6               | Cottonseed Receiving Limit<br>Cottonseed Prod. Limit | 625,000 TPY<br>603,000 TPY   |
|                   | TVOP issued June 6, 2007  | 3.B.7               | Soybean Receiving Limit                              | 360,000 TPY  |
| AB-001, AB-002    | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub><br>Throughput                 | 22.50 lb/hr (per emission point)<br>7.38 lb/hr (per emission point)<br>125 tons/hr (per emission point)    |

| Emission Point(s)                      | Applicable Requirement  | Condition Number(s) | Pollutant/Parameter                  | Limit/Standard   |
|--|---|---------------------|--------------------------------------|--|
| AB-003                                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub><br>Throughput | 27.00 lb/hr<br>8.85 lb/hr<br>150 tons/hour   |
| AB-005                                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub><br>Throughput | 2.25 lb/hr<br>0.74 lb/hr<br>50 tons/hour   |
| AB-001 through AB-003 and AB-005       | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 56.25 TPY (total for emission point group)<br>18.44 TPY (total for emission point group)                 |
| AB-006                                 | TVOP issued June 6, 2007  | 3.B.9               | Throughput                           | 240,000 TPY  |
| AC-001, AC-002, AC-003, AC-004, AC-005 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 1.53 lb/hr (per emission pt.)<br>0.85 lb/hr (per emission pt.)   |
| AC-006, AC-007, AC-008                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 1.91 lb/hr (per emission pt.)<br>1.06 lb/hr (per emission pt.)   |
| AC-001 through AC-008                  | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 1.20 TPY (total for emission point group)<br>0.67 TPY (total for emission point group)                   |
| AC-009                                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 1.91 lb/hr and 1.26 TPY<br>1.06 lb/hr and 0.70 TPY   |
| AC-010, AC-011                         | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 0.53 lb/hr and 2.24 TPY (per emission pt.)<br>0.30 lb/hr and 1.25 TPY (per emission pt.)                 |
| AC-012                                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 0.11 lb/hr and 0.45 TPY<br>0.06 lb/hr and 0.25 TPY   |
| AD-001                                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 0.28 lb/hr<br>0.07 lb/hr   |
| AD-002, AD-003                         | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 0.59 lb/hr (per emission pt.)<br>0.15 lb/hr (per emission pt.)   |
| AD-001 through AD-003                  | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 0.78 TPY (total for emission point group)<br>0.20 TPY (total for emission point group)                   |
| AD-006 through AD-009                  | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 0.15 lb/hr (per emission pt.) and 0.65 TPY (total)<br>0.04 lb/hr (per emission pt.) and 0.16 TPY (total) |
| AD-010                                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>               | 0.15 lb/hr and 0.66 TPY<br>0.04 lb/hr and 0.17 TPY   |

| Emission Point(s)  | Applicable Requirement  | Condition Number(s) | Pollutant/Parameter              | Limit/Standard   |
|--|---|---------------------|----------------------------------|--|
| AD-011   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>           | 0.02 lb/hr and 0.09 TPY<br>0.01 lb/hr and 0.02 TPY   |
| AD-012   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>           | 0.10 lb/hr and 0.44 TPY<br>0.03 lb/hr and 0.11 TPY   |
| AD-013   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>           | 0.03 lb/hr and 0.01 TPY<br>0.01 lb/hr and 0.01 TPY   |
| AE-001   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>           | 6.71 lb/hr and 0.38 TPY<br>3.74 lb/hr and 0.21 TPY   |
| AE-002   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>           | 3.66 lb/hr and 0.32 TPY<br>2.04 lb/hr and 0.18 TPY   |
| AE-003   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>           | 0.49 lb/hr and 0.04 TPY<br>0.27 lb/hr and 0.02 TPY   |
| AE-004, AE-005   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>           | 3.66 lb/hr (per emission pt.) and 0.32 TPY (total)<br>2.04 lb/hr (per emission pt.) and 0.18 TPY (total) |
| AE-006, AE-007   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub>           | 2.44 lb/hr and 0.21 TPY (per emission pt.)<br>1.36 lb/hr and 0.12 TPY (per emission pt.)                 |
| AF-001, AF-002, AF-003, AF-004   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>              | 0.92 lb/hr and 3.71 TPY (per emission pt.)   |
| AF-005   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>              | 0.90 lb/hr and 3.63 TPY  |
| AG-001 through AG-005, AG-007 through AG-009, AG-011, AG-012, and AG-014 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8<br>3.B.10     | PM/PM <sub>10</sub><br>Operation | 5.04 lb/hr and 20.31 TPY (per emission pt.)<br>Shall not operate when cyclone is inoperable.             |
| AG-006   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8<br>3.B.10     | PM/PM <sub>10</sub><br>Operation | 4.90 lb/hr and 19.73 TPY<br>Shall not operate when cyclone is inoperable.                                |
| AG-010   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8<br>3.B.10     | PM/PM <sub>10</sub><br>Operation | 4.18 lb/hr and 16.83 TPY<br>Shall not operate when cyclone is inoperable.                                |
| AG-013   | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8<br>3.B.10     | PM/PM <sub>10</sub><br>Operation | 4.20 lb/hr and 16.92 TPY<br>Shall not operate when cyclone is inoperable.                                |



| Emission Point(s)      | Applicable Requirement   | Condition Number(s)            | Pollutant/Parameter                               | Limit/Standard   |
|------------------------|--|--------------------------------|---|--|
| AI-001, AI-002         | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8<br>3.B.10                | PM/PM <sub>10</sub><br>Operation                  | 4.32 lb/hr and 17.41 TPY (per emission pt.)<br>Shall not operate when cyclone is inoperable.   |
| AI-003                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8<br>3.B.10                | PM/PM <sub>10</sub><br>Operation                  | 0.58 lb/hr and 2.35 TPY<br>Shall not operate when cyclone is inoperable.   |
| AJ-001, AJ-002, AJ-003 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | PM/PM <sub>10</sub><br>VOC                        | 1.45 lb/hr and 5.85 TPY (per emission pt.)<br>8.84 lb/hr and 35.52 TPY (per emission pt.)  |
| AJ-004                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | VOC   | 61.28 lb/hr and 246.36 TPY   |
| AJ-005                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | VOC   | 56.02 lb/hr and 225.20 TPY   |
| AJ-001 through AJ-005  | 40 CFR 63, Subpart GGGG (§63.2830-72, §63.2840(a-d), and Table 1)<br>PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.11<br>3.B.12<br><br>3.B.13 | Hexane/VOC<br><br><br>Compliance (HAP Loss) Ratio | Hexane vapors for the solvent plant (Emission Points AJ-001 through AJ-003) shall be condensed in the condenser, and remaining hexane shall be controlled with a chilled mineral oil scrubbing system (Emission Point AJ-004).<br>Monthly compliance ratio of actual HAP loss to allowable HAP loss for the previous 12 operating months must be less than or equal to 1.00. |
| AK-001, AK-002, AK-003 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007<br>40 CFR Part 64, CAM   | 3.B.8<br><br>3.B.14            | PM/PM <sub>10</sub>                               | 0.96 lb/hr and 3.87 TPY (per emission pt.)<br><br>CAM Plan provided in Appendix C.   |
| AL-001 (LO-001)        | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | PM<br>PM <sub>10</sub>                            | 0.86 lb/hr and 0.61 TPY<br>0.29 lb/hr and 0.21 TPY   |
| AL-001 (LO-002)        | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | PM<br>PM <sub>10</sub>                            | 1.15 lb/hr and 0.42 TPY<br>0.09 lb/hr and 0.03 TPY   |
| AL-001 (LO-004)        | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | PM<br>PM <sub>10</sub>                            | 2.15 lb/hr and 0.33 TPY<br>0.73 lb/hr and 0.11 TPY   |
| AL-005 (LO-005)        | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | PM<br>PM <sub>10</sub>                            | 2.15 lb/hr and 2.65 TPY<br>0.73 lb/hr and 0.89 TPY   |
| AL-005 (LO-007)        | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | PM<br>PM <sub>10</sub>                            | 1.35 lb/hr and 0.83 TPY<br>0.11 lb/hr and 0.07 TPY   |
| AL-010                 | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007  | 3.B.8                          | PM<br>PM <sub>10</sub>                            | 3.01 lb/hr and 0.95 TPY<br>1.02 lb/hr and 0.32 TPY   |

| Emission Point(s)                            | Applicable Requirement  | Condition Number(s) | Pollutant/Parameter    | Limit/Standard   |
|--|---|---------------------|------------------------|--|
| AL-011 (LO-011)                              | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub> | 3.01 lb/hr<br>1.02 lb/hr   |
| AL-011 (LO-012, LO-013)                      | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub> | 1.62 lb/hr (per emission pt.)<br>0.13 lb/hr (per emission pt.)                     |
| AL-011 (LO-011, LO-012, LO-013)              | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub> | 1.16 TPY (total for emission pt. group)<br>0.39 TPY (total for emission pt. group) |
| AL-015                                       | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM<br>PM <sub>10</sub> | 0.36 lb/hr and 0.65 TPY<br>0.12 lb/hr and 0.22 TPY                                 |
| AL-016 (CL-001, CL-002)                      | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>    | 1.03 lb/hr and 4.14 TPY (per emission pt.)   |
| AM-001 (SF-001a, SF-001b, SF-001c, SF-001d)  | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>    | 0.01 lb/hr and 0.02 TPY (per emission pt.)   |
| AM-002 (SF-002a, SF-002b)                    | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>    | 0.01 lb/hr and 0.02 TPY (per emission pt.)   |
| AM-003 (SF-003a, SF-003b, SF-003c, SF-003d)) | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>    | 0.03 lb/hr and 0.06 TPY (per emission pt.)   |
| AM-005                                       | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>    | 0.01 lb/hr and 0.02 TPY  |
| AM-006 (SF-006a, SF-006b, SF-006c, SF-006d)) | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>    | 0.03 lb/hr and 0.06 TPY (per emission pt.)   |
| AM-007 (SF-007a, SF-007b, SF-007c, SF-007d)) | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>    | 0.03 lb/hr and 0.06 TPY (per emission pt.)   |
| AM-008 (SF-008a, SF-008b, SF-008c, SF-008d)) | PSD Construction Permit issued October 9, 1998 and TVOP issued June 6, 2007 | 3.B.8               | PM/PM <sub>10</sub>    | 0.03 lb/hr and 0.06 TPY (per emission pt.)   |

3.B.1 For Emission Points AA-001 and AA-002, the permittee shall not have particulate matter emissions from fossil fuel burning installations of greater than 10 million BTU per hour heat input that exceeds the emission rate as determined by the relationship:

$$E = 0.8808 * I^{-0.1667}$$

where E is the emission rate in pounds per million BTU per hour heat input and I is the heat input in million of BTU per hour. (Ref.: APC-S-1, Section 3.4(a)(2))

- 3.B.2 For Emission Points AA-001 and AA-002, the permittee shall not discharge sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer in excess of 4.8 pounds (measured as sulfur dioxide (SO<sub>2</sub>)) per million BTU heat input. (Ref.: APC-S-1, Section 4.1(a))
- 3.B.3 For Emission Points AA-001 and AA-002, the permittee shall combust only natural gas or No. 2 fuel oil with less than 0.5% sulfur by weight. (Ref.: Title V Operating Permit (TVOP) issued June 6, 2007)
- 3.B.4 For Emission Points AA-001 and AA-002, the permittee is subject to and shall comply with the National Emission Standards for Hazardous Air Pollutants (NESHAP) for *Major Source* Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD. This subpart establishes emission limits and work practice standards for industrial, commercial, and institutional boilers and process heaters. Emission Points AA-001 and AA-002 are considered existing sources and must comply with all applicable requirements of Subpart DDDDD by the compliance dates established in the final reconsidered rule. Existing sources must comply within three (3) years after publication of the final rule, unless further delayed by EPA. (Ref.: 40 CFR 63, Subpart DDDDD)

For Emission Points AA-001 and AA-002, the permittee must meet the applicable emission limits, work practice standards, and operating limits in 40 CFR 63, Subpart DDDDD. The emission limits are provided in Table 2 of Subpart DDDDD, the work practices are provided in Table 3 (e.g., annual or biennial tune-up and energy assessment), and the operating limits are provided in Table 4. At all times, the permittee must operate and maintain the affected source(s), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Compliance will be based on, but is not limited to, monitoring results, operation and maintenance procedures, and maintenance records and inspections. (Ref.: 40 CFR 63, Subpart DDDDD)

- 3.B.5 For the entire facility, excluding combustion sources AA-001 and AA-002, the particulate matter emission rate shall not exceed the amount determined by the relationship:

$$E = 4.1 (p)^{0.67}$$

where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour. For purposes of this permit, the permittee shall not exceed an oilseed receiving rate (p) of 450 tons per hour. (Ref.: APC-S-1, Section 3.6(a))

- 3.B.6 The permittee shall not exceed a cottonseed receiving rate of 450 tons per hour and is limited to 625,000 tons per year. In addition, the permittee shall not exceed a cottonseed production limit of 603,000 tons per year. (Ref.: APC-S-1, Section 3.6(a) and TVOP issued June 6, 2007)
- 3.B.7 The permittee is also limited to 360,000 tons per year of soybeans received. (Ref.:

APC-S-1, Section 3.6(a) and TVOP issued June 6, 2007 and modified thereafter)

- 3.B.8 For the above referenced emission points, the permittee is limited by the federally enforceable Prevention of Significant Deterioration (PSD) Permit to Construct issued on October 9, 1998, and TVOP issued on June 6, 2007, and modified thereafter.
- 3.B.9 For Emission Point AB-006, the permittee is limited to 240,000 tons per year of total oilseeds or returned meal combined received via railcar. (Ref.: TVOP issued June 6, 2007, and modified thereafter)
- 3.B.10 Emission Points AG-001 through AG-014, AI-001, AI-002, and AI-003 are considered inherent process equipment with respect to the Compliance Assurance Monitoring (CAM) regulations, 40 CFR Part 64. Therefore, the permittee shall not operate the delinting and lint transfer processes associated with these cyclones when the cyclones are inoperable. (Ref.: TVOP issued June 6, 2007, and modified thereafter)
- 3.B.11 Emission Points AJ-001 through AJ-005 are affected by and shall comply with the NESHAP for Solvent Extraction for Vegetable Oil Production (40 CFR 63, Subpart GGGG) and the General Provisions (40 CFR Part 63, Subpart A). (Ref.: 40 CFR 63, Subpart GGGG)
- 3.B.12 For Emission Points AJ-001 through AJ-005, the hexane vapors for the solvent plant (Emission Points AJ-001 through AJ-003) shall be condensed in the condenser. The hexane remaining in the exhaust gas from the condensers shall be controlled with a chilled mineral oil scrubbing system prior to being vented through the final vent (Emission Point AJ-004). (Ref.: PSD Permit to Construct issued on October 9, 1998, and TVOP issued on June 6, 2007, and modified thereafter)
- 3.B.13 For Emission Points AJ-001 through AJ-005, the permittee shall limit the number of gallons of HAP lost per ton of oilseed processed. The permittee shall not exceed a compliance ratio of 1.00. For each operating month after the compliance date (April 12, 2004), the permittee shall calculate a compliance ratio which compares actual HAP loss to allowable HAP loss for the previous 12 operating months (12-month rolling average). The compliance ratio shall be calculated using the following equation:

$$\text{Compliance Ratio} = \frac{\text{Actual Hap Loss}}{\text{Allowable Hap Loss}} \quad (\text{Eq. 1})$$

Equation 1 can also be expressed as a function of total solvent loss as shown in Equation 2:

$$\text{Compliance Ratio} = \frac{f * \text{Actual Solvent Loss}}{0.64 * \sum_{i=1}^n ((\text{Oilseed})_i * (\text{SLF})_i)} \quad (\text{Eq. 2})$$

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 §63.2840 for *existing* sources. For Cottonseed, the factor will depend on amount processed in 12-operating month period (*Large (0.5)* or *Small (0.7)*).

The actual HAP loss shall be determined monthly based on the amount of hexane lost and the amount of seed processed. 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).

(Ref.: 40 CFR 63.2840(a)-(d) and Table 1)

- 3.B.14 Emission Points AK-001 through AK-003 are subject to the Compliance Assurance Monitoring (CAM) Plan requirements in 40 CFR Part 64. A copy of the CAM Plan is attached as Appendix C. The emission points are subject to an emission limit or standard, use a control device to achieve compliance, and pre-control emissions for each emission point has the potential to exceed the Title V major source threshold of 100 tons per year of particulate matter. (Ref.: 40 CFR 64)

**C. Insignificant and Trivial Activity Emission Limitations & Standards**

| Applicable Requirement     | Condition Number(s) | Pollutant/Parameter | Limit/Standard  |
|----------------------------|---------------------|---------------------|---|
| APC-S-1, Section 3.4(a)(1) | 3.C.1               | PM/PM <sub>10</sub> | 0.6 lbs/MMBTU, or as otherwise limited by facility modification restrictions        |
| APC-S-1, Section 4.1(a)    | 3.C.2               | SO <sub>2</sub>     | 4.8 lbs/MMBTU, or as otherwise limited by facility modification restrictions        |
| APC-S-1, Section 3.6(a)    | 3.C.3               | PM/PM <sub>10</sub> | $E=4.1(p)^{-0.667}$ , or as otherwise limited by facility modification restrictions |

3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input. (Ref.: APC-S-1, Section 3.4(a)(1))

3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input. (Ref.: APC-S-1, Section 4.1(a))

3.C.3 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission from any manufacturing process, in any one hour from any point source, particulate matter in total quantities in excess of the amount determined by the relationship:

$$E=4.1(p)^{-0.667}$$

Where E is the emission rate in pounds per hour and p is the process weight input rate in tons per hour. If the process weight input rate (p) changes, the emissions rate (E) will change accordingly. (Ref.: APC-S-1, Section 3.6(a))

## SECTION 4. COMPLIANCE SCHEDULE

- 4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.
- 4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. Each compliance certification shall include the following:
- (a) the identification of each term or condition of the permit that is the basis of the certification;
  - (b) the compliance status;
  - (c) whether compliance was continuous or intermittent;
  - (d) the method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;
  - (e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit. (Ref.: APC-S-6, Section III.C.5.a.,c.,&d.)
- 4.3 For Emission Points AA-001 and AA-002, the permittee is subject to and shall comply with all applicable requirements of the NESHAP for Major Source Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63, Subpart DDDDD. The permittee shall comply with the requirements of Subpart DDDDD by the compliance dates established in the final reconsidered rule. The emissions points are considered existing sources and must comply within three (3) years after publication of the final rule, unless further delayed by EPA.

## SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

- A. General Monitoring, Recordkeeping and Reporting Requirements
- 5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.
- 5.A.2 In addition to the recordkeeping specified below, the permittee shall include with all records of required monitoring information the following:
- (a) the date, place as defined in the permit, and time of sampling or measurements;
  - (b) the date(s) analyses were performed;
  - (c) the company or entity that performed the analyses;
  - (d) the analytical techniques or methods used;
  - (e) the results of such analyses; and
  - (f) the operating conditions existing at the time of sampling or measurement. (Ref.: APC-S-6, Section III.A.3.b.(1)(a)-(f))
- 5.A.3 Except where a longer duration is specified in an applicable requirement, the permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (Ref.: APC-S-6, Section III.A.3.b.(2))
- 5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with APC-S-6, Section II.E. (Ref.: APC-S-6, Section III.A.3.c.(1))
- 5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) days of the time the deviation began. (Ref.: APC-S-6, Section III.A.3.c.(2))
- 5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the DEQ and the EPA.
- 5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation.



**B. Specific Monitoring and Recordkeeping Requirements**

| Emission Point(s)   | Pollutant/<br>Parameter<br>Monitored | Monitoring/Recordkeeping Requirement  | Condition<br>Number | Applicable Requirement   |
|---|--------------------------------------|---|---------------------|--|
| AA-001, AA-002  | Fuel                                 | Monitor and record monthly the fuel type, quantity, quality (for fuel oil), and heating value.  | 5.B.1               | APC-S-6, Section III.A.3 and Title V Operating Permit (TVOP) issued June 6, 2007 |
| AA-001, AA-002  | Vary depending on fuel used          | Monitoring, recordkeeping, and testing requirements.  | 5.B.2               | 40 CFR 63.7480-7575  |
| Facility-Wide   | Cottonseed Receiving Limit           | Monitor and record daily the amount of cottonseed (or other oilseed, including soybeans) received. Use daily records to determine the amount of cottonseed received each month (tons per month) and for each consecutive 12-month period (tons per year).   | 5.B.3               | PSD Construction Permit issued on October 9, 1998 and TVOP issued June 6, 2007   |
|   | Cottonseed Production Limit          | Monitor and record daily the cottonseed (or other oilseed) production rate. Use daily records to determine the monthly (tons per month) and consecutive 12-month period (tons per year) production rate.  | 5.B.4               |  |
| AB-001, AB-002, AB-003, AB-005, AB-006  | Hours of Operation                   | Monitor and record daily the amount of time required to unload the cottonseed, including soybeans, received and use to calculate the cottonseed receiving rate (tons per hour).   | 5.B.5               | APC-S-6, Section III.A.3 and TVOP issued June 6, 2007                            |
| AB-006  | Throughput                           | Monitor and record daily oilseed and returned meal throughput. Use daily records to determine the monthly (tons per month) and consecutive 12-month period (tons per year) throughput   | 5.B.6               | APC-S-6, Section III.A.3 and TVOP issued June 6, 2007                            |
| AF-001 through AF-005, AG-001 through AG-014, AI-001 through AI-003, AJ-001 through AJ-003, AK-001 through AK-003         | PM/PM <sub>10</sub>                  | Conduct compliance stack testing. For process areas that utilize similar control equipment and handle identical process/waste streams, a representative percentage of the total units may be tested. All emission points (or representative emission points) shall be tested within 5 years of permit issuance, and every 5 years thereafter. | 5.B.7               | APC-S-6, Section III.A.3 and TVOP issued June 6, 2007                            |
| AF-001 through AF-005, AG-001 through AG-014, AI-001 through AI-003, AJ-001 through AJ-003, AK-001 through AK-003, AL-016 | Control Equipment Inspections        | Perform regular inspections of air emissions control equipment on a weekly basis, and maintain on hand sufficient equipment necessary to repair and/or replace the pollution control equipment.   | 5.B.8               | APC-S-6, Section III.A.3 and TVOP issued June 6, 2007                            |
| AG-001 through AG-014, AI-001, AI-002, AI-003   | Operation                            | Record all instances processes associated with these emission points are operated when the emission points are inoperable.  | 5.B.9               | APC-S-6, Section III.A.3 and TVOP issued June 6, 2007                            |
| AJ-001 through AJ-005   | Solvent (HAP) Loss &                 | Develop and implement a written plan for demonstrating compliance with 40 CFR 63,   | 5.B.10              | 40 CFR 63.2851   |

| Emission Point(s)     | Pollutant/<br>Parameter<br>Monitored | Monitoring/Recordkeeping Requirement  | Condition<br>Number | Applicable Requirement                                |
|-----------------------|--------------------------------------|---|---------------------|---|
|                       | Oilseed<br>Processed                 | Subpart GGGG.   |                     |   |
| AJ-001 through AJ-005 | SSM                                  | Develop and implement a written SSM.  | 5.B.11              | 40 CFR 63.2852  |
| AJ-001 through AJ-005 | Solvent (HAP)<br>Loss                | Determine the monthly and 12-month rolling sum of solvent loss (gallons) and resulting compliance ratio.  | 5.B.12<br>5.B.13    | 40 CFR 63.2853  |
| AJ-001 through AJ-005 | Oilseed<br>Processed                 | Determine the monthly and 12-month rolling quantity of oilseed processed (tons).  | 5.B.14<br>5.B.15    | 40 CFR 63.2855  |
| AJ-001 through AJ-005 | Solvent (HAP)<br>Loss                | Monitor and maintain monthly records of the total solvent (HAP) loss, regardless of facility operating status.  | 5.B.16              | 40 CFR 63.2862(c)(vi)                                 |
| AJ-001 through AJ-005 | Compliance<br>Ratio                  | Determine the compliance ratio using the 12 month rolling total of solvent (HAP) loss and oilseed processed, and provide a statement of whether the facility is in compliance with the ratio and all other requirements of Subpart GGGG.  | 5.B.17              | 40 CFR 63.2862(d)(4) and (5)                          |
| AJ-001 through AJ-005 | Operating<br>Status                  | For each SSM event subject to an initial startup or malfunction period, record the description, date, duration, and reason it qualifies as an initial startup or malfunction; estimate the solvent loss (gallons) during the SSM event with supporting documentation; and provide a checklist or other mechanism to indicate the SSM plan was followed. | 5.B.18              | 40 CFR 63.2862(e)                                     |
| AK-001 through AK-003 | Opacity<br>Inspections               | Conduct visible emissions observation daily.<br>Conduct visual and maintenance inspections weekly.  | 5.B.19              | APC-S-6, Section III.A.3 and TVOP issued June 6, 2007 |
| Facility-Wide         | Visible<br>Emissions                 | Perform visible emission observations (e.g., EPA Ref. Method 22) for each non-fugitive emission point on a weekly basis. If during the visible emission observation any visible emissions are observed, the permittee shall perform an EPA Ref. Method 9 evaluation.  | 5.B.20              | APC-S-6, Section III.A.3 and TVOP issued June 6, 2007 |

5.B.1 For Emission Points AA-001 and AA-002, the permittee shall monitor and maintain monthly records on the type, quantity, quality (sulfur content of fuel oil), and heating value (BTU/gal or BTU/ft<sup>3</sup>) of the fuel(s) combusted.

5.B.2 Beginning within three (3) years after publication of the final rule, for Emission Points AA-001 and AA-002, the permittee shall comply with the requirements of 40 CFR 63, Subpart DDDDD. This subpart establishes performance testing, fuel analysis, operating limits, compliance demonstration methods, and reporting requirements, which are provided in Tables 5 through 9 of Subpart DDDDD. The permittee shall comply with all applicable monitoring, recordkeeping, testing, and reporting requirements of the Subpart.

The permittee shall maintain files on site of all measurements, monitoring, data, reports, and other information required by the Subpart DDDDD in accordance with Condition 5.A.3, and the records shall be made available upon request by MDEQ personnel. The permittee shall submit a summarized report in accordance with Condition 5.A.4. (Ref.: 40 CFR 63, Subpart DDDDD)

- 5.B.3 The permittee shall monitor and record daily the amount of cottonseed (or other oilseed, including soybeans) received. The daily records shall be used to determine the amount of cottonseed (or other oilseed) received each month (tons per month) and for each consecutive 12-month period (tons per year).
- 5.B.4 The permittee shall monitor and record daily the cottonseed (or other oilseed) production rate. Use daily records to determine the monthly (tons per month) and consecutive 12-month period (tons per year) production rate.
- 5.B.5 The permittee shall monitor and record daily the amount of time required to unload the cottonseed (or other oilseed) received. The permittee shall also calculate the average cottonseed (or other oilseed) receiving rate (tons per hour) daily using the total amount of seed received and the hours required to receive the seed.
- 5.B.6 For Emission Point AB-006, the permittee shall monitor and record the daily oilseed and returned meal throughput. Use daily records to determine the monthly (tons per month) and consecutive 12-month period (tons per year) throughput.
- 5.B.7 For Emission Points AF-001 through AF-005, AG-001 through AG-014, AI-001 through AI-003, AJ-001 through AJ-003, and AK-001 through AK-003, the permittee shall demonstrate compliance with the PM/PM<sub>10</sub> emission limitations by stack testing in accordance with EPA Reference Methods 1-5. Compliance testing shall be performed under normal operating conditions and while operating at or near capacity. Stack testing shall be performed on a rotating basis with a frequency where all emission points are tested within five (5) years of permit issuance, and every five (5) years thereafter.

For process areas that utilize similar control equipment and handle identical process/waste streams, the permittee may stack test a representative percentage of the total units (e.g., not less than 20%). The permittee shall submit a pre-test protocol to be approved by the Mississippi Department of Environmental Quality (MDEQ) containing the intended test schedule for the permit term and any justifications for testing representative units.

The pre-test protocol should be submitted at least thirty (30) days prior to the proposed test date to ensure that all test methods and procedures are acceptable to the MDEQ. The permittee must notify the MDEQ prior to the scheduled test date(s). At least ten (10) days notice should be given so that an observer may be scheduled to witness the test(s). The results of the performance testing shall be submitted to the MDEQ within sixty (60) days of the stack test event.

- 5.B.8 For Emission Points AF-001 through AF-005, AG-001 through AG-014, AI-001

through AI-003, AJ-001 through AJ-004, AK-001 through AK-003, and AL-016, the permittee shall perform regular inspections of air emissions control equipment on a weekly basis. Such air emissions control equipment shall be operated as efficiently as possible to provide the maximum reduction of air contaminants, and shall be operated at all times when the respective processes are in operation. The permittee shall also maintain on hand at all times sufficient equipment as is necessary to repair and/or replace the pollution control equipment.

- 5.B.9 For Emission Points AG-001 through AG-014, AI-001, AI-002, and AI-003, the permittee shall record all instances where processes associated with these emission points are operated when the emission points are inoperable.
- 5.B.10 For Emission Points AJ-001 through AJ-005, the solvent extraction process, the permittee shall develop and implement a written plan that provides the detailed procedures for monitoring and recording data necessary for demonstrating compliance with 40 CFR 63, Subpart GGGG. The permittee shall use one or more accurate measurement methods such as weigh scales, volumetric displacement, and/or material mass balances to quantify solvent loss and amount of cottonseed (or other oilseed) processed. The permittee shall develop and implement a site-specific plan for demonstrating compliance, and keep the plan on-site and readily available for review. If changes are made to the plan, the previous versions of the plan shall be maintained and also made available for inspection for at least five (5) years after each revision. The compliance plan must include the following items:
- (a) The name and address of the permittee;
  - (b) The physical address of the vegetable oil production process;
  - (c) A detailed description of all methods of measurement used to determine solvent losses, HAP content of solvent, and the tons of each type of oilseed processed;
  - (d) When measurements are made;
  - (e) Examples of each calculation used to determine compliance status;
  - (f) Example logs of how data's recorded; and
  - (g) A plan to ensure that the data continues to meet compliance demonstration needs.

A copy of this compliance plan titled "Vegetable Oil MACT Compliance Plan" has been developed by the permittee and is provided in Appendix B.

(Ref.: 40 CFR 63.2851)

- 5.B.11 For Emission Points AJ-001 through AJ-005, the solvent extraction process, the permittee shall develop a written Startup, Shutdown, and Malfunction (SSM) plan in accordance with §63.6(e)(3) and implement the plan, when applicable. The SSM plan shall be maintained on-site and readily available for review. The SSM plan shall provide detailed procedures for operating and maintaining the 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 practices in use to minimize emissions. (Ref.: 40 CFR 63.2852)

- 5.B.12 For Emission Points AJ-001 through AJ-005, the solvent extraction process, the permittee shall determine the total solvent loss (gallons per month) by the end of each calendar month following an operating month. The total solvent loss for an operating month includes all solvent losses that occur during normal operating periods. The permittee shall also determine the previous consecutive 12-month rolling sum of actual solvent loss (in gallons). The 12-month rolling sum of solvent loss is the "actual solvent (HAP) loss," which is used to calculate the compliance ratio listed in Section 3.B. (Ref.: 40 CFR 63.2853)
- 5.B.13 For Emission Points AJ-001 through AJ-005, the solvent extraction process, the permittee shall calculate the actual solvent (HAP) loss by using the procedures in the compliance plan (provided in Appendix B) to determine the following:
- (a) Define the dates of each operating status period during a calendar month, which includes the beginning date of each calendar month and the date of any change in the source operating status. For example, if the permittee maintains the same operating status during an entire calendar month, these dates are the beginning and ending dates of the calendar month.
  - (b) Categorize the source operating status for each recorded time interval in accordance with Table 1 of §63.2853(a)(2), which includes a normal operating period, non-operating period, initial startup, malfunction, and exempt period.
  - (c) Measure and record the beginning and ending solvent inventory.
  - (d) Record the amount (gallons) of extraction solvent received in each shipment.
  - (e) Adjust the solvent inventory, as necessary to accurately estimate losses. Reasonable justification for the adjustment(s) shall be made.

For normal operating periods the following equation may be used to determine the actual solvent (HAP) loss within a calendar month:

$$\text{Solvent (HAP) Loss} = \sum_{i=1}^n (\text{SOLV}_B - \text{SOLV}_E + \text{SOLV}_R \pm \text{SOLV}_A)_i$$

where:

$\text{SOLV}_B$  = gallons of solvent in the inventory at the beginning of normal operating period "i",

$\text{SOLV}_E$  = gallons of solvent in the inventory at the end of normal operating period,

$\text{SOLV}_R$  = gallons of solvent received between the beginning and ending inventory dates of normal operating period,

$\text{SOLV}_A$  = gallons of solvent added or removed from the extraction solvent inventory (adjustments) during normal operating period, and n = number of normal operating periods in a calendar month.

The actual solvent (HAP) loss is the total solvent losses during normal operating periods for the previous twelve (12) operating months. Therefore, determine the actual solvent (HAP) loss by summing the monthly actual solvent losses for the previous 12 operating months. The permittee shall record the actual solvent (HAP) loss by the end of each calendar month following an operating month, and the calculated actual solvent (HAP) loss shall be used to determine the compliance ratio. (Ref.: 40 CFR 63.2853)

- 5.B.14 For Emission Points AJ-001 through AJ-005, the solvent extraction process, the permittee shall determine all oilseed measurements on an as received basis. The “as received” basis refers to the oilseed chemical and physical characteristics as initially received and prior to any oilseed handling and processing. The permittee shall determine the tons of oilseed as received by the end of each calendar month following an operating month. The total oilseed processed for an operating month includes the total oilseed processed during all normal operating periods. The permittee shall also determine the previous consecutive 12-month rolling sum of oilseed processed, and is used to calculate the compliance ratio. (Ref.: 40 CFR 63.2855)
- 5.B.15 For Emission Points AJ-001 through AJ-005, the solvent extraction process, the permittee shall determine the tons “as received” of oilseed processed by using the procedures in the compliance plan (provided in Appendix B) to determine the following:
- (a) Define the dates of each operating status period, which includes the beginning date of each calendar month and the date of any change in the source operating status. The dates on each oilseed inventory log shall be consistent with the dates recorded for the solvent inventory.
  - (b) Categorize the source operation status for each recorded time interval, which should be consistent with the operating status recorded on the solvent inventory.
  - (c) Measure and record the beginning and ending oilseed inventory.
  - (d) Record the type and tons of each oilseed shipment received.
  - (e) Adjust the oilseed inventory, as necessary to accurately estimate oilseed processed. Reasonable justification for the adjustment(s) shall be made. 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. Situations that may require oilseed inventory adjustments include, but are not limited to:
    - (1) Oilseed that mold or otherwise become unsuitable for processing;
    - (2) Oilseed sold before it is processed;
    - (3) Oilseed destroyed by an event such as a process malfunction, fire, or natural disaster;
    - (4) 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; and

- (5) Periodic physical measurements of inventory. For example, periodically emptying oilseed storage silos to physically measure the current oilseed inventory may result in a small inventory correction.

For normal operating periods the following equation may be used to determine the quantity of each oilseed type processed within a calendar month:

$$\text{Oilseed Processed} = \sum_{i=1}^n (\text{SEED}_B - \text{SEED}_E + \text{SEED}_R \pm \text{SEED}_A)_i$$

where:

SEED<sub>B</sub> = tons of oilseed in the inventory at the beginning of normal operating period "i",

SEED<sub>E</sub> = tons of oilseed in the inventory at the end of normal operating period,

SEED<sub>R</sub> = tons of oilseed received between the beginning and ending inventory dates of normal operating period,

SEED<sub>A</sub> = tons of oilseed added or removed from the extraction oilseed inventory (adjustments) during normal operating period, and n = number of normal operating periods in a calendar month.

The quantity of each oilseed processed is the total tons of each type of listed oilseed processed during normal operating periods for the previous twelve (12) operating months. Therefore, determine the tons of each oilseed processed by summing the monthly quantity of each oilseed processed for the previous 12 operating months. The permittee shall record the quantity of each oilseed processed by the end of each calendar month following an operating month, and the calculated oilseed quantity shall be used to determine the compliance ratio. The quantity of oilseed processed does not include oilseed processed during non-operating periods, initial startup, malfunction periods, or exempt operation periods. (Ref.: 40 CFR 63.2855)

- 5.B.16 For Emission Points AJ-001 through AJ-005, the solvent extraction process, the permittee shall monitor and maintain monthly records and a 12-month rolling sum of the total solvent (HAP) loss, regardless of facility operating status. (Ref.: 40 CFR 63.2862(c)(vi))
- 5.B.17 For Emission Points AJ-001 through AJ-005, the solvent extraction process, the permittee shall determine the compliance ratio using the information obtained within this section and the equation(s) in Section 3.B., and provide a statement of whether the facility is in compliance with the ratio and all other requirements of Subpart GGG. (Ref.: 40 CFR 63.2862(d)(4) and (5))
- 5.B.18 For Emission Points AJ-001 through AJ-005, the solvent extraction process, for each SSM event subject to an initial startup period or malfunction period, the permittee shall record the following items by the end of the calendar month following the month in which the initial startup or malfunction occurred:

- (a) Provide a description, date, duration, and reason the event qualifies as an initial startup or malfunction;
- (b) Estimate the solvent loss (gallons) during the event with supporting documentation; and
- (c) Develop and provide a checklist or other mechanism to indicate if the SSM plan was followed.

(Ref.: 40 CFR 63.2862(e))

5.B.19 For Emission Points AK-001 through AK-003, the permittee shall perform daily visible emission observations (e.g., EPA Ref. Method 22) of the air pollution control equipment. If visible emissions are observed, the permittee will conduct a Visible Emissions Evaluation (VEE) consistent with EPA Reference Method 9. Records of observations and any maintenance work conducted shall be kept in log form and made available for review upon request.

For Emission Points AK-001 through AK-003, the permittee shall also perform weekly visual and maintenance inspections of the air pollution control equipment. Records of the inspections and any maintenance work conducted shall be kept in log form and made available for review upon request. This shall serve as the method of compliance with 40 CFR 64.3(a) and the permittee's specific Compliance Assurance Monitoring (CAM) Plan. A copy of this plan is attached as Appendix C. (Ref.: 40 CFR 64.3(a))

5.B.20 The permittee shall perform visible emission observations (similar to EPA Reference Method 22) for each non-fugitive emission point on a weekly basis. If during the visible emission observation any visible emissions are observed, the permittee shall perform a VEE consistent with EPA Reference Method 9. The permittee shall record the results of the visual observations and VEEs.

**C. Specific Reporting Requirements**

| Emission Point(s)                      | Pollutant/<br>Parameter<br>Monitored | Reporting Requirement  | Condition<br>Number |
|--|--------------------------------------|--|---------------------|
| AA-001, AA-002                         | Fuel                                 | Report the fuel type, quantity, quality (for fuel oil), and heating value on a semiannual basis. | 5.C.1               |
| AA-001, AA-002                         | Vary depending<br>on fuel used       | Report on monitoring requirements.   | 5.C.2               |
| Facility-Wide                          | Cottonseed<br>Receiving Limit        | Report the amount of cottonseed (or other oilseed) received on a semiannual basis.               | 5.C.3               |
|  | Cottonseed<br>Production Limit       | Report the cottonseed (or other oilseed) production rate on a semiannual basis.                  | 5.C.4               |
| AB-001, AB-002, AB-003, AB-005, AB-006 | Hours of<br>Operation                | Report the cottonseed (or other oilseed or returned meal) receiving rate on a semiannual basis.  | 5.C.5               |



| Emission Point(s)  | Pollutant/<br>Parameter<br>Monitored | Reporting Requirement   | Condition<br>Number |
|--|--------------------------------------|---|---------------------|
| AF-001 through AF-005,<br>AG-001 through AG-014,<br>AI-001 through AI-003,<br>AJ-001 through AJ-003,<br>AK-001 through AK-003            | PM/PM <sub>10</sub>                  | Submit a pre-test protocol at least 30 days prior to the test date to provide intended test schedule and any justifications for testing representative units. Notify the MDEQ at least 10 days prior to the test date so an observer may be scheduled to witness the test(s). Submit the results of the performance testing to the MDEQ within 60 days of the stack test event. | 5.C.6               |
| AF-001 through AF-005,<br>AG-001 through AG-014,<br>AI-001 through AI-003,<br>AJ-001 through AJ-004,<br>AK-001 through AK-003,<br>AL-016 | Control<br>Equipment<br>Operation    | Report any time control equipment is not properly operating when the respective process is in operation.  | 5.C.7               |
| AJ-001 through AJ-005  | HAP Loss &<br>Oilseed<br>Processed   | Report the monthly and 12-month rolling sum of solvent (HAP) loss and oilseed processed on a semiannual basis.  | 5.C.8               |
| AJ-001 through AJ-005  | Total HAP Loss                       | Report monthly and 12-month rolling total of total solvent (HAP) loss, regardless of facility operating status.   | 5.C.9               |
| AJ-001 through AJ-005  | Compliance<br>Certification          | Prepare and submit an Annual Compliance Certification.  | 5.C.10              |
| AJ-001 through AJ-005  | Deviation<br>Notification            | Prepare and submit a Deviation Notification Report as necessary.  | 5.C.11              |
| AJ-001 through AJ-005  | Periodic SSM<br>Report               | Prepare and submit a Periodic SSM Report when operating during an initial startup and malfunction period.   | 5.C.12              |
| AJ-001 through AJ-005  | Immediate SSM<br>Report              | Prepare and submit an Immediate SSM Report when handling SSM during initial startup or malfunction different than the SSM plan.   | 5.C.13              |
| AK-001 through AK-003  | CAM<br>Requirements                  | Provide a summary report on the CAM Plan requirements on a semiannual basis.  | 5.C.14              |
| Facility-Wide  | Visible<br>Emissions                 | Provide summary report of VEEs and any VEE that exceeds an opacity limit.   | 5.C.15              |

5.C.1 For Emission Points AA-001 and AA-002, the permittee shall prepare a summary report of the fuel(s) combusted, including type, quantity, quality (sulfur content of fuel oil), and heating value (BTU/gal or BTU/ft<sup>3</sup>), and submit the report in accordance with permit condition 5.A.4.

5.C.2 For Emission Points AA-001 and AA-002, the permittee shall maintain files on site of all measurements, monitoring, data, reports, and other information required by the Subpart DDDDD in accordance with Condition 5.A.3, and the records shall be made available upon request by MDEQ personnel. The permittee shall submit a summarized report in accordance with Condition 5.A.4. (Ref.: 40 CFR 63, Subpart DDDDD)

5.C.3 The permittee shall prepare a summary report of the amount of cottonseed (or other oilseed or returned meal) received each month (tons per month) and for each consecutive 12-month period (tons per year), and submit the report in accordance with permit condition 5.A.4.

- 5.C.4 The permittee shall prepare a summary report of the cottonseed (or other oilseed) monthly production rate (tons per month) and the total annual production rate for each consecutive 12-month period (tons per year), and submit the report in accordance with permit condition 5.A.4.
- 5.C.5 For Emission Points AB-001, AB-002, AB-003, AB-005, and AB-006, the permittee shall prepare a summary report of the calculated cottonseed (or other oilseed) receiving rate (in tons per hour and tons per year (for AB-006)), and submit the report in accordance with permit condition 5.A.4.
- 5.C.6 For Emission Points AF-001 through AF-005, AG-001 through AG-014, AI-001 through AI-003, AJ-001 through AJ-003, and AK-001 through AK-003, the permittee shall submit a pre-test protocol to be approved by the MDEQ containing the intended test schedule and any justifications for testing representative units.

The pre-test protocol should be submitted at least thirty (30) days prior to the proposed test date to ensure that all test methods and procedures are acceptable to the MDEQ. The permittee must notify the MDEQ prior to the scheduled test date(s). At least ten (10) days notice should be given so that an observer may be scheduled to witness the test(s). The results of the performance testing shall be submitted to the MDEQ within sixty (60) days of the stack test event.

- 5.C.7 For Emission Points AF-001 through AF-005, AG-001 through AG-014, AI-001 through AI-003, AJ-001 through AJ-004, AK-001 through AK-003, and AL-016, the permittee shall submit a summary report in accordance with 5.A.4 detailing anytime control equipment is not properly operating when the respective process is in operation. The report should at least note the date, malfunction start and end time, cause (or root cause), and corrective actions of such occurrences.
- 5.C.8 For Emission Points AJ-001 through AJ-005, the permittee shall determine the monthly and 12-month rolling sum of solvent (HAP) loss and oilseed processed in accordance with Section 5.B, and submit a summary report in accordance with permit condition 5.A.4.
- 5.C.9 For Emission Points AJ-001 through AJ-005, the permittee shall determine the monthly and 12-month rolling sum of total solvent (HAP) loss regardless of facility operating status, and submit a summary report in accordance with permit condition 5.A.4.
- 5.C.10 For Emission Points AJ-001 through AJ-005, the permittee shall prepare an Annual Compliance Certification to be submitted with the Title V Annual Certification of Compliance (Permit Condition 4.2). The Annual Compliance Certification must contain the following information:
- (a) Name and address of the permittee;
  - (b) Physical address of the vegetable oil production process;
  - (c) Each listed oilseed type processed during the 12-month period covered by the report

- (d) 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-month period covered by the report;
- (e) A statement designating the source as a major source of HAP or a demonstration that the source qualifies as an area source;
- (f) A compliance certification to indicate whether the source was in compliance with each compliance determination made during the 12-month reporting period. For each such compliance determination, the permittee shall include a certification of the following items:
  - (1) The procedures described in the plan for demonstrating compliance were followed; and
  - (2) The compliance ratio is less than or equal to 1.00.

(Ref.: 40 CFR 63.2861(a))

5.C.11 For Emission Points AJ-001 through AJ-005, the permittee shall submit a Deviation Notification Report for each compliance determination made in which the compliance ratio exceeds 1.00. The Deviation Notification Report shall be submitted in accordance with 5.A.5 and shall contain the following information:

- (a) Name and address of the permittee;
- (b) Physical address of the vegetable oil production process;
- (c) Each listed oilseed type processed during the 12-month period for which the deviation is determined; and
- (d) The compliance ratio comprising the deviation.

(Ref.: 40 CFR 63.2861(b)).

5.C.12 For Emission Points AJ-001 through AJ-005, if the permittee chooses to operate during initial startup or malfunction periods, the permittee shall submit a periodic startup, shutdown, and malfunction (SSM) report. The Periodic SSM Report shall contain the following information:

- (a) Name, title, and signature of the 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;
- (b) 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; and
- (c) Estimate of the solvent loss during the initial startup or malfunction period with supporting documentation.

(Ref.: 40 CFR 63.2861(c))

5.C.13 For Emission Points AJ-001 through AJ-005, if the permittee handles a SSM during an initial startup or malfunction period differently from procedures in the SSM plan, the

permittee shall submit an immediate SSM report. The Immediate SSM Report shall consist of a telephone call or facsimile to the MDEQ within two (2) working days after starting actions inconsistent with the SSM plan. Within seven (7) days after the end of the event, the permittee shall submit a letter containing the following:

- (a) Name, title, and signature of the responsible official who is certifying accuracy of the report, an explanation of the event, and the reasons for not following the SSM plan;
- (b) Description and date of the SSM event, its duration, and reason it qualifies as a SSM; and
- (c) Estimate of the solvent loss for the duration of the SSM event with supporting documentation.

(Ref.: 40 CFR 63.2861(d))

- 5.C.14 For Emission Points AK-001 through AK-003, the permittee shall prepare a summary report of the CAM Plan requirements, and submit the report in accordance with permit condition 5.A.4.
- 5.C.15 The permittee shall prepare a summary report of the visual observations requiring a visible emissions evaluation (VEE), conducted in accordance with EPA Ref. Method 9, and submit the report in accordance with permit condition 5.A.4. In addition, the permittee shall report any VEE that exceeds an opacity limit in accordance with Permit Condition 5.A.5

**SECTION 6. ALTERNATIVE OPERATING SCENARIOS**

None permitted.

## SECTION 7. TITLE VI REQUIREMENTS

The following are applicable or potentially applicable requirements originating from Title VI of the Clean Air Act – Stratospheric Ozone Protection. The full text of the referenced regulations may be found on-line at <http://ecfr.gpoaccess.gov> under Title 40, or DEQ shall provide a copy upon request from the permittee.

- 7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart A – Production and Consumption Controls.
- 7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.
- 7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances, for the following containers and products:
  - (a) All containers in which a class I or class II substance is stored or transported;
  - (b) All products containing a class I substance; and
  - (c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.
- 7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction:
  - (a) Servicing, maintaining, or repairing appliances;
  - (b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or
  - (c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations, persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II refrigerants.
- 7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any

acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G – Significant New Alternatives Policy Program. The permittee shall also comply with any use conditions for the acceptable alternative substance.

7.6 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart H – Halon Emissions Reduction:

- (a) Any person testing, servicing, maintaining, repairing, or disposing of equipment that contains halons or using such equipment during technician training;
- (b) Any person disposing of halons;
- (c) Manufacturers of halon blends; or
- (d) Organizations that employ technicians who service halon-containing equipment.

# **APPENDIX A**

## **LIST OF ABBREVIATIONS USED IN THIS PERMIT**



# APPENDIX A

## List of Abbreviations Used In this Permit

|                  |   |
|------------------|---|
| APC-S-1          | Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants   |
| APC-S-2          | Permit Regulations for the Construction and/or Operation of Air Emissions Equipment   |
| APC-S-3          | Regulations for the Prevention of Air Pollution Emergency Episodes  |
| APC-S-4          | Ambient Air Quality Standards   |
| APC-S-5          | Regulations for the Prevention of Significant Deterioration of Air Quality  |
| APC-S-6          | Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act   |
| APC-S-7          | Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act  |
| BACT             | Best Available Control Technology   |
| CEM              | Continuous Emission Monitor   |
| CEMS             | Continuous Emission Monitoring System   |
| CFR              | Code of Federal Regulations   |
| CO               | Carbon Monoxide   |
| COM              | Continuous Opacity Monitor  |
| COMS             | Continuous Opacity Monitoring System  |
| DEQ              | Mississippi Department of Environmental Quality   |
| EPA              | United States Environmental Protection Agency   |
| gr/dscf          | Grains Per Dry Standard Cubic Foot  |
| HP               | Horsepower  |
| HAP              | Hazardous Air Pollutant   |
| lbs/hr           | Pounds per Hour   |
| M or K           | Thousand  |
| MACT             | Maximum Achievable Control Technology   |
| MM               | Million   |
| MMBTUH           | Million British Thermal Units per Hour  |
| NA               | Not Applicable  |
| NAAQS            | National Ambient Air Quality Standards  |
| NESHAP           | National Emissions Standards For Hazardous Air Pollutants, 40 CFR 61<br>or<br>National Emission Standards For Hazardous Air Pollutants for Source Categories, 40 CFR 63 |
| NMVOC            | Non-Methane Volatile Organic Compounds  |
| NO <sub>x</sub>  | Nitrogen Oxides   |
| NSPS             | New Source Performance Standards, 40 CFR 60   |
| O&M              | Operation and Maintenance   |
| PM               | Particulate Matter  |
| PM <sub>10</sub> | Particulate Matter less than 10 Fm in diameter  |
| ppm              | Parts per Million   |
| PSD              | Prevention of Significant Deterioration, 40 CFR 52  |
| SIP              | State Implementation Plan   |
| SO <sub>2</sub>  | Sulfur Dioxide  |
| TPY              | Tons per Year   |
| TRS              | Total Reduced Sulfur  |
| VEE              | Visible Emissions Evaluation  |
| VHAP             | Volatile Hazardous Air Pollutant  |
| VOC              | Volatile Organic Compound   |



# **APPENDIX B**

**VEGETABLE OIL MACT COMPLIANCE PLAN**

**(per 40 CFR 63, Subpart GGGG)**



# **APPENDIX C**

## **COMPLIANCE ASSURANCE MONITORING (CAM) PLAN**