State of Ohio Environmental Protection Agency

STREET ADDRESS:
Lazarus Government Center
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P.O. Box 1049
Columbus, OH 43216-1049

1/6/2009

Certified Mail
Facility ID: 0339010005
Permit Number: P0087229
County: Huron

Sarah Hoy
Solae LLC
605 Goodrich Road
Bellevue, OH 44811

RE: DRAFT AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio EPA Weekly Review and the local newspaper, Norwalk-Reflector. A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page http://www.epa.state.oh.us/dapc in Microsoft Word and Adobe Acrobat format. Comments will be accepted as a marked-up copy of the permit or in narrative format. Any comments must be sent to the following:

Andrew Hall
Permit Review/Development Section
Ohio EPA, DAPC
122 South Front Street
Columbus, Ohio 43215

and

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
Ohio EPA-NWDO; Michigan

Huron County

PUBLIC NOTICE
ISSUANCE OF DRAFT AIR POLLUTION Title V Permit
Solae LLC

Issue Date: 1/6/2009
Permit Number: P0087229
Permit Type: Renewal
Permit Description: Soybean Oil Mill
Facility ID: 0339010005
Facility Location: Solae LLC
605 Goodrich Rd, P.O. Box 369
Bellevue, OH 44811
Facility Description: Soybean Processing

Chris Korleski, Director of the Ohio Environmental Protection Agency, 50 West Town Street, Columbus Ohio, has issued a draft action of an air pollution control Title V operating permit for the facility at the location identified above on the date indicated. Comments concerning this draft action, or a request for a public meeting, must be sent in writing no later than thirty (30) days from the date this notice is published. All comments, questions, requests for permit applications or other pertinent documentation, and correspondence concerning this action must be directed to Donald Waltermeyer at Ohio EPA DAPC, Northwest District Office, 347 North Dunbridge Road or (419)352-8461. The permit, which includes a detailed description of the operations, and associated statement of basis for the permit requirements, can be downloaded from the Web page: www.epa.state.oh.us/dapc

# Statement of Basis For Title V Permit

| Part I - General | |
|---|---|
| Company Name | Solae |
| Premise Number | 03 39 01 0005 |
| What makes this facility a Title V facility? | VOC, NOx |
| Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01 (U)? | Yes |
| Were there any Acommon control@ issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them. | No |
| Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1) | N/A |
| Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3) | N/A |
| Please identify the affected unit(s)and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D) | N/A |
| Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E) | N/A |

| Part II (State and Federally Enforceable Requirements) | | | |
|---|---|---|---|
| Term and Condition | Basis | | Comments |
| | | | |

| (paragraph) | SIP (3745- ) | Other | |
|---|---|---|---|
| | | | |
| | | | |

X **Instructions for Part II:**

Each paragraph in Part II must be identified and the remainder of the table completed. If the SIP (not including 31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an AN@ in the column under ASIP.@ If the basis for the term and condition is something other than the SIP, including 3745-31-05, NSPS or MACT, a AY@ should be noted in the AOther@ column, and if not, an AN@ should be noted. Whether the basis for the term and condition is the ASIP@ or AOther,@ an explanation of each term and condition in Part II must be provided in the AComments@ section.

**Part III (Requirements Within the State and Federally Enforceable Section)**

Any unusual requirements or aspects of the terms and conditions in Part III that are not self-explanatory should be explained in the appropriate comment field or in a paragraph following the table for Part III.

| EU(s) | Limitation | Basis | | ND | OR | M | St | ENF | R | St | Rp | St | ET | Misc | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | SIP (3745- ) | Other | | | | | | | | | | | | |
| B010 | 0.140 lb NOx /mmBtu (12.8 lb/hr, 56.1 ton/yr) * | 31-05 | | N | N | N | N | N | N | N | N | N | Y | N | M, R, Rp - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* natural gas combustion |
| B010 | 0.134 lb CO /mmBtu (12.2 lb/hr, 53.4 ton/yr) * | 31-05 | | N | N | N | N | N | N | N | N | N | Y | N | M, R, Rp - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* natural gas combustion |
| B010 | 0.007 lb VOC | 31-05 | | N | N | N | N | N | N | N | N | N | N | N | M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | /mmBtu (0.65 lb/hr, 2.85 ton/yr) * | | | | | | | | | | | | | | * natural gas combustion |
| B010 | 0.014 lb PE /mmBtu (1.25 lb/hr, 5.48 ton/yr) * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | OR - Must burn only natural gas (or other 'inherently clean fuel' for PE)<br>M - Tracking for any day where a fuel that is not an 'inherently clean fuel' was used.<br>ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* natural gas combustion |
| EU(s) | Limitation | Basis | | ND | OR | M | St | ENF | R | St | Rp | St | ET | Misc | Comments |
| | | SIP (3745- ) | Other | | | | | | | | | | | | |
| B010 | 0.161 lb NOx /mmBtu (14.0 lb/hr, 61.3 ton/yr) * | 31-05 | | N | N | N | N | N | N | N | N | N | Y | N | M, R, Rp - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* No. 2 fuel oil |
| B010 | 0.136 lb CO /mmBtu (11.8 lb/hr, 51.7 ton/yr) * | 31-05 | | N | N | N | N | N | N | N | N | N | Y | N | M, R, Rp - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* No. 2 fuel oil |
| B010 | 0.014 lb OC /mmBtu (1.18 lb/hr), 5.17 ton/yr * | 31-05 | | N | N | N | N | N | N | N | N | N | N | N | M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* No. 2 fuel oil |
| | 0.016 lb | | | | | | | | | | | | | | OR - Must burn only No. 2 oil and/or biofuel (or other |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B010 | PE /mmBtu (1.40 lb/hr, 6.13 ton/yr) * | 31-05 | | N | Y | Y | N | N | Y | N | Y | N | N | N | 'inherently clean fuel' for PE)<br>M - Tracking for any day where a fuel that is not an 'inherently clean fuel' was used.<br>ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* No. 2 fuel oil |
| B010 | 0.50 lb SO2 /mmBtu (43.4 lb/hr, 190 ton/yr) * | 31-05 | 40 CFR 60.42 c (d) | N | Y | Y | N | N | Y | N | Y | N | N | N | OR - fuel oil sulfur content restriction of 0.5% by wt.<br>M - Tracking fuel oil supplier receipts for sulfur content.<br>ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* No. 2 fuel oil |
| B010 | 20% opacity | 31-05 | 40 CFR 60.43 c (c) | N | Y | Y | N | N | Y | N | Y | N | N | N | OR - Must burn only 'inherently clean fuel' for PE and opacity<br>M - Tracking for any day where a fuel that is not an 'inherently clean fuel' was used.<br>ET - None normally required for opacity alone. |
| EU(s) | Limitation | Basis | | ND | OR | M | St | ENF | R | St | Rp | St | ET | Misc | Comments |
| | | SIP (3745- ) | Other | | | | | | | | | | | | |
| F002 | 2.88 lb fugitive PE /hr, 12.6 ton /yr * | 31-05 | | N | N | N | N | N | N | N | N | N | N | N | M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. |
| F003 | 12.8 ton fugitive PE /yr | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Visible emissions checks. Daily was chosen as a reasonable and practical monitoring frequency.<br>ET - None - per Ohio EPA Engineering Guide 16 |
| F003 | 0% opacity | 31-05 | 40 CFR 60. 302 (b)(2) | N | N | Y | N | N | Y | N | Y | N | N | N | M - Visible emissions checks. Daily was chosen as a reasonable and practical monitoring frequency.<br>ET - None normally required for opacity alone. |
| F004 | 2.04 lb | 31-05 | | N | N | N | N | N | N | N | N | N | N | N | M, R, Rp, ET - None - 'Static' AP-42 emission factor |

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| | fugitive PE /hr, 8.94 ton /yr | | | | | | | | | | | | | | calculation at maximum capacity determines compliance. |
| F004 | 1.96 lb fugitive NOx /hr, 8.58 ton /yr | 31-05 | | N | N | N | N | N | N | N | N | N | N | N | M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance. |
| F004 | no fugitive visible emissions | 31-05 | | N | N | N | N | N | N | N | N | N | N | N | M, R, Rp, ET - If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 22 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"). |
| F011 | 5.17 lb fugitive PE /hr, 22.6 ton /yr | 31-05 | | N | N | N | N | N | N | N | N | N | N | N | M, R, Rp, ET - None - 'Static' AP-42 emission factor calculation at maximum capacity determines compliance.<br><br>* natural gas combustion |
| F011 | 20% opacity * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Visible emissions checks. Daily was chosen as a reasonable and practical monitoring frequency.<br>ET - None normally required for opacity alone.<br>* fugitive visible emissions, 3-minute average |
| EU(s) | Limitation | Basis | | ND | OR | M | St | ENF | R | St | Rp | St | ET | Misc | Comments |
| | | SIP (3745- ) | Other | | | | | | | | | | | | |
| P011 | 0.80 lb PE /hr, 3.50 tons /yr | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Baghouse pressure drop monitoring.<br>ET - None - per Ohio EPA Engineering Guide 16 |
| P011<br>P021<br>P051<br>P085<br>P086 | 20% opacity | 17-07(A) | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Baghouse pressure drop monitoring for PE also serves as monitoring for opacity.<br>ET - None normally required for opacity alone. |
| P021 | 1.09 lb PE /hr, 4.77 | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Baghouse pressure drop monitoring.<br>ET - None - per Ohio EPA Engineering Guide 16 |

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| | tons /yr | | | | | | | | | | | | | | |
| P043<br>P051 | 85.0 tons OC /month * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Material tracking information allows for direct mass balance calculation of emissions. CEMS would therefore be unnecessary.<br>ET - None - Mass balance from MR&R used as compliance determination.<br><br>* hexane emissions (from P043 and P051 combined) |
| P043<br><br>P051 | 0.267 gal OC / ton soybean *<br><br>1.25 gal OC / ton soybean * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Material tracking information allows for direct mass balance calculation of emissions. CEMS would therefore be unnecessary.<br>ET - None - Mass balance from MR&R used as compliance determination.<br><br>* hexane emissions, rolling 6-month average |
| P043<br>P051 | 811 tons OC /yr * | 31-05 | | N | N | N | N | N | N | N | N | N | Y | N | M - Material tracking information allows for direct mass balance calculation of emissions. CEMS would therefore be unnecessary.<br>ET - None - Mass balance from MR&R used as compliance determination.<br><br>* hexane emissions, rolling 12-month average (from P043 and P051 combined) |
| P043 | 5.90 lbs PE /hr, 25.8 ton /yrCO/yr * | 31-05 | | N | N | N | N | N | N | N | N | N | Y | N | M - Cyclone pressure drop monitoring.<br>ET - None - per Ohio EPA Engineering Guide 16 |
| EU(s) | Limitation | Basis | | ND | OR | M | St | ENF | R | St | Rp | St | ET | Misc | Comments |
| | | SIP (3745- ) | Other | | | | | | | | | | | | |
| P043<br>P060 | 20% opacity | 17-07(A) | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Cyclone pressure drop monitoring for PE also serves as monitoring for opacity.<br>ET - None normally required for opacity alone. |
| P043<br><br>P051 | 0.20 gal OC / ton soybean *<br><br>1.7 gal | 31-05 | 40 CFR 6 | N | N | Y | N | N | Y | N | Y | N | N | N | M - Material tracking information allows for direct mass balance calculation of emissions. CEMS would therefore be unnecessary.<br>ET - None - Mass balance from MR&R used as compliance determination. |

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| | OC / ton soybean * | | 3.2840 | | | | | | | | | | | | * hexane emissions, rolling 12-month average |
| P043<br>P050<br>P051<br>P060 | see OR in comments | 21-07(G) | | N | N | Y | N | N | Y | N | Y | N | N | N | OR - cannot use photochemically-reactive materials.<br>M - Material composition tracking. Daily was chosen as a reasonable and practical monitoring frequency.<br>ET - No stack testing is required. Compliance can be demonstrated based on the record keeping requirements. |
| P050 | 35.0 lb OC /hr * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Material tracking information allows for direct mass balance / emission factor calculation of emissions. CEMS would therefore be unnecessary.<br>ET - None - Mass balance from MR&R used as compliance determination.<br><br>* point and fugitive emissions |
| P051<br>P060 | 58.0 tons OC /month * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Material tracking information allows for direct mass balance calculation of emissions. CEMS would therefore be unnecessary.<br>ET - None - Mass balance from MR&R used as compliance determination.<br><br>* alcohol emissions (from P051 and P060 combined) |
| P051<br>P060 | 552 tons OC /yr * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Material tracking information allows for direct mass balance calculation of emissions. CEMS would therefore be unnecessary.<br>ET - None - Mass balance from MR&R used as compliance determination.<br><br>* alcohol emissions, rolling 12-month average (from P051 and P060 combined) |
| EU(s) | Limitation | Basis | | ND | OR | M | St | ENF | R | St | Rp | St | ET | Misc | Comments |
| | | SIP (3745- ) | Other | | | | | | | | | | | | |
| P051 | 2.30 lbs PE /hr, 10.1 tons /yr | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Baghouse pressure drop monitoring.<br>ET - None - per Ohio EPA Engineering Guide 16 |

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| P066 | 3.93 lbs PE /hr, 17.2 tons /yr | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Cyclone pressure drop monitoring.<br>ET - None - per Ohio EPA Engineering Guide 16 |
| P066 | 2.93 lbs $PM_{10}$ /hr, 12.8 tons /yr | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Cyclone pressure drop monitoring for PE also serves as monitoring for opacity.<br>ET - None normally required for opacity alone |
| P085 | 0.84 lb PE /hr, 3.68 tons /yr | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Baghouse pressure drop monitoring.<br>ET - None - per Ohio EPA Engineering Guide 16 |
| P085<br>P086 | 0.005 gr PE /dscf | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Baghouse pressure drop monitoring.<br>ET - None - per Ohio EPA Engineering Guide 16 |
| P086 | 0.43 lb PE /hr, 1.88 tons /yr | 21-07 (G) | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Baghouse pressure drop monitoring.<br>ET - None - per Ohio EPA Engineering Guide 16 |
| P901 | 28.4 ton PE /yr * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Visible emissions checks. Weekly was chosen as a reasonable and practical monitoring frequency.<br>ET - None - per Ohio EPA Engineering Guide 16<br><br>* fugitive emissions |
| P901 | 6.57 ton PE /yr *<br><br>0.0035 gr PE /dscf | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Visible emissions checks. Weekly was chosen as a reasonable and practical monitoring frequency.<br>ET - None - per Ohio EPA Engineering Guide 16<br><br>* point emissions |
| P901 | 20% opacity * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Visible emissions checks. Weekly was chosen as a reasonable and practical monitoring frequency.<br>ET - None normally required for opacity alone.<br><br>* 3-minute average, for fugitive emissions |
| EU(s) | Limitation | Basis | | ND | OR | M | St | ENF | R | St | Rp | St | ET | Misc | Comments |
| | | SIP (3745- ) | Other | | | | | | | | | | | | |
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P901 | 0% opacity * | 31-05 | | N | N | Y | N | N | Y | N | Y | N | N | N | M - Visible emissions checks. Weekly was chosen as a reasonable and practical monitoring frequency.<br>ET - None normally required for opacity alone.<br><br>* point emissions |
| F002<br>F003<br>F004<br>F005<br>F006<br>F007<br>F008<br>F009<br>F010<br>F011<br>F013<br>F014<br>P901 | N/A<br><br><br><br><br><br><br>N/A | 17-08(B)<br><br><br><br><br><br><br>17-07(B) | | Y | N | N | N | N | N | N | N | N | N | N | ND - The emissions unit is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B).<br><br>ND - This emissions unit is exempt from the visible emissions limitation specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e). |
| P006 | N/A | 17-11(A) | | Y | N | N | N | N | N | N | N | N | N | N | ND - The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs/hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), this unit is exempt from the requirements of OAC rule 3745-17-11(B)(2). |
| P006 | N/A | 17-07(A) | | Y | N | N | N | N | N | N | N | N | N | N | ND - This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because OAC rule 3745-17-11 is not applicable. |

EU = emissions unit ID
ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)
OR = operational restriction
M = monitoring requirements
St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement
ENF = did noncompliance issues drive the monitoring requirements?
R = record keeping requirements
Rp = reporting requirements
ET = emission testing requirements (not including compliance method terms)
Misc = miscellaneous requirements

X **Instructions for Part III:**

X All non-insignificant EUs must be included in this table. For each EU, or group of similar EUs, each emission limitation and control requirement specified in section A.I.1 and A.I.2 of the permit must be identified and the remainder of the table completed.

X If the SIP (not including OAC rule 3745-31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an AN@ in the column under ASIP.@ If the basis for the term and condition is something other than the SIP, including OAC rule 3745-31-05, NSPS or MACT, a AY@ should be noted in the AOther@ column, and if not, an AN@ should be noted. If the basis for the term and condition is AOther,@ an explanation of the basis must be provided in the AComments@ section. If OAC rule 3745-31-05 is cited in the AOther@ column, please indicate in the AComments@ section whether or not <u>all</u> of the requirements have been transferred from the permit to install.

$ To complete the remainder of the table after ABasis,@ except for the AComments@ section, simply specify a AY@ for yes or an AN@ for no. For the AM,@ AR,@ ARp,@ and AET@ columns, if AN@ is specified, there should be a brief explanation in the AComments@ section as to why there are no requirements. If a brief explanation is provided in the AComments@ section, please do not simply indicate that monitoring or testing requirements are not necessary. An explanation of why a requirement is not necessary should be specified.

When periodic monitoring requirements are established to satisfy the provisions of OAC rule 3745-77-07(A)(3)(a)(ii), the basis for the requirements must be explained. Whenever Engineering Guides have been used to establish the periodic monitoring requirements, the applicable Engineering Guide may be referenced in the AComments@ section. An example that should be clarified would be the situation where it has been determined that control equipment parametric monitoring will be used to evaluate ongoing compliance in lieu of performing frequent emission tests. In this situation, Engineering Guide #65 would be referenced along with the fact that the parametric monitoring range (or minimum value) corresponded to the range (or minimum value) documented during the most recent emission tests that demonstrated that the emissions unit was in compliance. If streamlining language is included in the AMonitoring,@ ARecord Keeping,@ or AReporting@ requirements sections of the permit, explain which requirements are being streamlined (mark appropriate column above) and provide a brief explanation of why the streamlined term is equal to or more stringent than the AMonitoring,@ ARecord Keeping,@ or AReporting@ requirements specified in the permit to install. If Engineering Guide #16 was used as the basis for establishing an emission test frequency, a simple note referencing the Engineering Guide in the AComments@ section would be sufficient.

Also, if a AY@ is noted under AOR,@ AMisc,@ ASt,@ AND,@ or AENF@ an explanation of the requirements must be provided in the AComments@ section. In addition to a general explanation of the AOR,@ AMisc,@ ASt,@ AND,@ and/or AENF@ the following must be provided:

1. For an operational restriction, clarify if appropriate monitoring, record keeping, and reporting requirements have been specified for the operational restriction and indicate whether or not CAM is currently applicable.
2. If a control plan and schedule is included in the AMiscellaneous Requirements@ section of the permit, provide an explanation in the AComments@ section of the violation, basis for the violation, and the company=s proposed control plan and schedule.
3. If the AND@ column above is marked, please identify the particular rule(s) that is (are) not applicable to the specified emissions unit.

A. If the AENF@ column above is marked, please provide a brief explanation of the noncompliance issue(s) which prompted the use of the specified monitoring requirement.

An explanation is not required if an AN@ is noted in the AOR,@ AMisc,@ ASt,@ AND,@ or AENF@ columns.

X **Additional information for modifications** - Several types of modifications, as defined by rule, may be processed concurrently. Please provide enough of a description for someone wishing to review the changes to the permit language to be able to identify where the change is made in the permit document. This brief description should be identified in the appropriate row in the first table of this form by replacing the AN/A@ in the applicable row(s). Please also indicate if the modification is being initiated by an appeal by including the ERAC case number in the AComments@ area. Please update the term-specific text in the SOB as warranted (full insertion or replacement is acceptable; bold italic and strike out is not needed). Note all modification/reopening rows should remain AN/A@ when developing the SOB during the initial permit development. Note: APA=s and Off-permit changes do not need to be noted in the SOB.

**State of Ohio Environmental Protection Agency**
**Division of Air Pollution Control**

# DRAFT

# Air Pollution Title V Permit
for
Solae LLC

Facility ID: 0339010005
Permit Number: P0087229
Permit Type: Renewal
Issued: 1/6/2009
Effective: To be entered upon final issuance
Expiration: To be entered upon final issuance

State of Ohio Environmental Protection Agency
Division of Air Pollution Control

**Air Pollution Title V Permit**
for
Solae LLC

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# Authorization

Facility ID: 0339010005
Facility Description: soybean oil mill.
Application Number(s): A0018152, A0018153, A0018154, A0018155, A0018156, A0018157
Permit Number: P0087229
Permit Description: Soybean Oil Mill
Permit Type: Renewal
Issue Date: 1/6/2009
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number:

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Solae LLC
605 Goodrich Rd
P.O. Box 369
Bellevue, OH 44811

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northwest District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Chris Korleski
Director

# A. Standard Terms and Conditions

## 1. Federally Enforceable Standard Terms and Conditions

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
*(Authority for term: ORC 3704.036(A))*

## 2. Monitoring and Related Record Keeping and Reporting Requirements

a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) The operating conditions existing at the time of sampling or measurement.
*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))*

b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
*(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))*

c) The permittee shall submit required reports in the following manner:

(1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.
*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

(3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.
*(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))*

(4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
*(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))*

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Northwest District Office.
*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

**3. Scheduled Maintenance**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.
*(Authority for term: OAC rule 3745-77-07(A)(3)(c))*

**4. Risk Management Plans**

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or

b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

*(Authority for term: OAC rule 3745-77-07(A)(4))*

**5. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
*(Authority for term: OAC rule 3745-77-07(A)(5))*

**6. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
*(Authority for term: OAC rule 3745-77-07(A)(6))*

**7. General Requirements**

a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.

b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.

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

e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:

(1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or

(2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or

(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminent sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.
*(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))*

**8. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.
*(Authority for term: OAC rule 3745-77-07(A)(8))*

**9. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.
*(Authority for term: OAC rule 3745-77-07(A)(9))*

**10. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.
*(Authority for term: OAC rule 3745-77-07(A)(10))*

**11. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.

b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate

statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.

d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

*(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))*

**12. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.
*(Authority for term: OAC rule 3745-77-07(B))*

**13. Compliance Requirements**

a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

(1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.

(3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:

(1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

(2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:

(1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.

(2) Compliance certifications shall include the following:

(a) An identification of each term or condition of this permit that is the basis of the certification.

(b) The permittee's current 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 required reporting period.

(e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

(3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

*(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))*

**14. Permit Shield**

a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

*(Authority for term: OAC rule 3745-77-07(F))*

**15. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the

Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).
*(Authority for term: OAC rules 3745-77-07(H)(1) and (2))*

**16. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.
*(Authority for term: OAC rule 3745-77-07(G))*

**17. Off-Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.
*(Authority for term: OAC rule 3745-77-07(I))*

**18. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the

permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.
*(This term is provided for informational purposes only.)*

**19. Insignificant Activities or Emissions Levels**

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.
*(Authority for term: OAC rule 3745-77-07(A)(1))*

**20. Permit to Install Requirement**

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.
*(Authority for term: OAC rule 3745-77-07(A)(1))*

**21. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.
*(Authority for term: OAC rule 3745-77-07(A)(1))*

**22. Permanent Shutdown of an Emissions Unit**

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.
*(Authority for term: OAC rule 3745-77-01)*

**23. Title VI Provisions**

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

*(Authority for term: OAC rule 3745-77-01(H)(11))*

**24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only**

The permittee shall submit required reports in the following manner:

a) Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.

b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**25. Records Retention Requirements Under State Law Only**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

**26. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio

EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.
*(Authority for term: OAC rule 3745-77-07(C))*

**27. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**28. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.
*(Authority for term: OAC rule 3745-77-01(C))*

**29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations**

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or

b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or

c) where the company's responsible official has certified that an emissions unit has been permanently shut down.

# B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) 5.

   The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit to install or in the SIP-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

   a) B007 - #2 Deodorizer Steam Generator - 6.12 mmBtu/hr n.g.
   b) P010 - Meal Grinding - Soybean meal grinders, air relief
   c) P011 - Hull Refining, soybean cleaning (screeners and aspirators) - baghouses (PTI 03-13045)
   d) P013 - Bean Flaking - Conventional flaking rolls and aspiration
   e) P021 - Primary De-hulling (aspirators) - with process baghouse (PTI 03-9532)
   f) P016 - Bean Cleaning, whole bean screen, aspiration, weigh, scaling
   g) P020 - Millfeed Grinding - Millfeed screen and hull grinders
   h) P022 - Soybean Meal Screening Process - rotex screens, grinders
   i) P023 - Meal Transfer Process -Conveyors, legs from process to storage
   j) P034 - Bean Conditioning - Conventional rotary bean dryer
   k) P035 - Bean Cracking - Cracking rolls (PTI 03-9532)
   l) P052 - Bulk Truck Loadout - w/choke flow & baghouse (PTI 03-4114)
   m) P053 - Grinder #1 -P.G./Conc - Grinder, classifier, and filter (PTI 03-4114)
   n) P054 - Grinder #2 -P.G./Conc - Grinder, classifier, and filter (PTI 03-4114)
   o) P055 - Grinder #3 -P.G./Conc - Grinder, classifier, and filter (PTI 03-4114)
   p) P057 - Bulk Storage Bins - Concentrate storage bins w/baghouses (PTI 03-4114)
   q) P058 - Grinding & packaging aspiration (PTI 03-4114)
   r) P061 - Promosoy Conveying to Grinding -from concentrate to grinding (PTI 03-4114)
   s) P062 - Prom-Ext Conveying to Packaging w/2 baghouses (PTI 03-4114)
   t) P063 - Conc/P&G Vacuum Cleaner System (PTI 03-4639)
   u) P064 - Promosoy Vacuum Cleaner System (PTI 03-4639)
   v) P065 - Prep Central Vacuum Cleaner System (PTI 03-5828)
   w) P067 - Bleaching Earth Receiving - unloading and transfer system (PTI 03-6854)
   x) P069 - Warehouse Bag-dump station w/Baghouse (PTI 03-6843)
   y) P072 - Bulk Kaolin Receiving
   z) P073 - Soybean Centrolex Packaging System (PTI 03-7780)
   aa) P075 - Bulk filter aid storage and transfer system (PTI 03-8237)
   bb) P076 - Bucket Elevator Leg W/ Dist Turnhead, Conveyors - Baghouse (PTI 03-7977)
   cc) P077 - Clean Bean Conveying (PTI 03-13045)
   dd) P078 - Mine Run B Product - B Plant Mine Run conveying to Grinding (PTI 03-9547)
   ee) P079 - No. 4 Concentrate Grinder (PTI 03-9547)
   ff) P080 - No. 5 Concentrate Grinder (PTI 03-9547)
   gg) P081 - B Plant Concentrate Conveying from Grinding to Storage (PTI 03-9547)
   hh) P082 - Concentrate Packaging Aspiration system (PTI 03-10474)
   ii) P083 - No. 6 Concentrate Grinder (PTI 03-11126)
   jj) P084 - TSPC - Soy Protein ingredient transfer, with baghouse (PTI 03-13292)
   kk) P087 - TSPC Cooler - Textured soy protein cooler, with baghouse (PTI 03-13292)
   ll) P088 - TSPC Fines - Textured soy protein fines, with baghouse (PTI 03-13292)
   mm) P089 - TSPC Textured soy protein reject transfer, with baghouse (PTI 03-13292)
   nn) P090 - TSPC Textured soy protein aspiration, with baghouse (PTI 03-13292)

oo) P091 - TSPC Vacuum system with baghouse (PTI 03-13292)
pp) P117 - Bag & Box Dump Station for Soy Fiber Ground (SFG) (PTI 03-16169)
qq) P118 - Conveying to holding bin for Soy Fiber Ground (SFG) (PTI 03-16169)
rr) P119 - Conveying to grinder for Soy Fiber Ground (SFG) (PTI 03-16169)
ss) P120 - Grinder for Soy Fiber Ground (SFG) (PTI 03-16169)
tt) T005 - 15K gal. Promosoy Dump Tank (PTI 03-5143)
uu) T006 - 13.5K gal. Ethanol Storage Tank (PTI 03-5143)

(Authority for term: OAC rule 3745-77-07(A)(13))

**3.** The following emissions units contained in this permit are subject to 40 CFR, Part 63, Subpart GGGG: P043 and P051. The complete MACT requirements, including the MACT General Provisions may be accessed via the Internet from the Electronic Code of Federal Regulations (e-CFR) website http://www.ecfr.gpoaccess.gov or by contacting the appropriate Ohio EPA District office or local air agency.

**4.** The following emissions units located at this facility are subject to all applicable requirements as outlined in OAC rule 3745-31-03(A)(4)(j):

a) B005 - #2 Boiler 32 mmBtu/hr Natural Gas Fired Boiler (PBR 06223)
b) B008 - #8 Boiler 100 mmBtu/hr ( 100,400 lbs/hr ) n. g. (PBR 06224)

**5.** The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

a) Z001 - Water Treatment Lagoon
b) Z002 - Process Cooler Chiller
c) Z003 - Storage Silo Elevator Bin Vents
d) Z004 - Stand-by Diesel Fire Pump #1
e) Z005 - Stand-by Diesel Fire Pump #2
f) Z006 - Stand-by Diesel Power Generator
g) Z007 - Diesel Storage Tank
h) Z008 - Gasoline Storage Tank
i) Z009 - Brine Maker - Salt Unloader
j) Z010 - Sulfuric Acid Storage Tank
k) Z011 - Phosphoric Acid Storage Tank
l) Z012 - Caustic Storage Tank
m) Z013 - #1 Deodorizer Steam Generator (replaced B004)

# C. Emissions Unit Terms and Conditions

**1. B010, #10 Gas Fired Boiler**

**Operations, Property and/or Equipment Description:**

boiler - 95 mmBtu/hr, natural gas, (87 mmBtu/hr with number 2 fuel oil as backup)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

a) None.

b) Applicable Emissions Limitations and/or Control Requirements

a) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | 40 CFR 60.40c et seq. (NSPS Subpart Dc) | See b)(2)b and c)(1). |
| b. | OAC rule 3745-17-10 (B)(1) | See b)(2)c. |
| c. | OAC rule 3745-18-06(D) | See b)(2)c. |
| d. | OAC rule 3745-21-08(B) | See b)(2)d. |
| e. | OAC rule 3745-17-07(A) | See b)(2)b. |
| f. | 40 CFR 63.52(a)(2) | See b)(2)e. |
| g. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-11260 issued July 1, 1998) | when firing natural gas:<br><br>0.140 lb nitrogen oxides (NOx) /mmBtu of actual heat input (12.8 lbs/hr, 56.1 tons/yr)<br><br>0.134 lb carbon monoxide (CO) /mmBtu of actual heat input (12.2 lbs/hr, 53.4 tons/yr)<br><br>0.014 lb particulate emissions (PE) /mmBtu of actual heat input (1.25 lbs/hr, 5.48 tons/yr)<br><br>0.007 lb volatile organic compounds (VOC) /mmBtu of actual heat input (0.65 lb/hr, 2.85 tons/yr)<br><br>0.0006 lb sulfur dioxide (SO2) /mmBtu of actual heat input (0.055 lb/hr, 0.24 ton/yr) |

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| | | |
| | OAC rule 3745-31-05(A)(3)<br>(PTI 03-11260 issued July 1, 1998)<br>cont. | when firing number 2 fuel oil:<br><br>0.161 lb NOx /mmBtu of actual heat input (14.0 lbs/hr, 61.3 tons/yr)<br><br>0.136 lb CO /mmBtu of actual heat input (11.8 lbs/hr, 51.7 tons/yr)<br><br>0.016 lb PE /mmBtu of actual heat input (1.40 lbs/hr, 6.13 tons/yr)<br><br>0.014 lb organic compounds (OC) /mmBtu of actual heat input (1.18 lbs/hr), 5.17 tons/yr<br><br>0.50 lb sulfur dioxide (SO2) /mmBtu of actual heat input (43.4 lbs/hr, 190 tons/yr)<br><br>See b)(2)a. |

b) Additional Terms and Conditions

a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A) and 40 CFR 60.40c et seq. (NSPS Subpart Dc).

Best available technology (BAT) for this emissions unit has been determined to be the use of low-NOx burners.

b. The applicability of OAC rule 3745-17-07(A) and 40 CFR 60.43c (c) for this emissions unit overlap, and result in opacity restrictions as follows:

i. when firing natural gas: visible emissions not more than 20 percent opacity (6-minute average), except for one 6-minute period in any sixty minutes of not more than 60 percent opacity.

ii. when firing No. 2 fuel oil: visible emissions not more than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. This requirement shall apply at all times, including periods of startup or shutdown lasting no longer than three hours, and malfunction periods which conform with OAC 3745-17-07(A)(3)(c).

iii. when firing No. 2 fuel oil: visible emissions not more than 20 percent opacity (6-minute average), except for one 6-minute period in any sixty minutes of not more than 60 percent opacity. This requirement shall apply for periods of startup or shutdown lasting longer than three hours,

and malfunction periods which do not conform with OAC 3745-17-07(A)(3)(c).

c. The emissions limit specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

d. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in this permit to install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

e. This emissions unit is subject to a case-by-case MACT determination pursuant to section 112(j) of the Clean Air Act (CAA) due to the June 8, 2007 D.C. Circuit Court of Appeals decision to vacate the Boiler MACT (40 CFR Part 63, Subpart DDDDD).

If notified by the Ohio EPA or U.S. EPA, the permittee shall submit an application for a revision to this Title V permit that meets the requirements of 40 CFR 63.52(a)(2) pertaining to case-by-case MACT determinations. The 30-day clock for submittal of a 112(j) application does not begin until such notification is made by Ohio EPA or U.S. EPA.
[40 CFR 63.52(a)(2)]

c) Operational Restrictions

a) The permittee shall combust oil in the affected facility that contains not greater than 0.5 weight percent sulfur.
[OAC 3745-77-07(A)(1), PTI 03-11260, and 40 CFR 60.42c (d)]

b) The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.
[OAC 3745-77-07(A)(1) and PTI 03-11260]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall keep records of fuel oil supplier certification, which shall include the following information:

a. The name of the oil supplier.

b. A statement from the oil supplier that the oil complies with the specifications under the definition of 'distillate oil' in 40 CFR 60.41c.

c. The sulfur content of the oil.

[OAC 3745-77-07(C)(1); PTI 03-11260; and 40 CFR 60.48c (e)(11), and (f)]

(2) The permittee shall record and maintain records of the amounts of natural gas combusted during each month. For months where fuel oil is fired, the permittee shall also record and maintain records of the amounts of fuel oil fired for each applicable day.
[OAC 3745-77-07(C)(1), PTI 03-11260, and 40 CFR 60.48c (g)(2)]

(3) For each day during which the permittee burns a fuel other than either natural gas or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

e) Reporting Requirements

(1) The permittee shall submit reports of the records of fuel oil supplier certifications from d)(1). The report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC 3745-77-07(C)(1); PTI 03-11260; and 40 CFR 60.48c (d), (e)(11), and (j)]

(2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or number two fuel oil, was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

f) Testing Requirements

(1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing shall be conducted within 3 months after the effective date of this permit.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for NOx and CO, for natural gas and No. 2 fuel oil.

c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

NOx: Methods 1 through 4 and 7 of 40 CFR, Part 60, Appendix A
CO: Methods 1 through 4 and 10, 40 CFR, Part 60, Appendix A

d. The emission testing shall be conducted while this emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Director (the Ohio EPA, Northwest District Office).
[OAC 3745-77-07(C)(1) and PTI 03-11260]

(2) Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Director (the Ohio EPA, Northwest District Office). The

"Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Director (the Ohio EPA, Northwest District Office's) refusal to accept the results of the emission test(s).

Personnel from the Director (the Ohio EPA, Northwest District Office) shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Director (the Ohio EPA, Northwest District Office) within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Director (the Ohio EPA, Northwest District Office).
[OAC 3745-77-07(C)(1) and PTI 03-11260]

(3) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation(s): (natural gas)
0.140 lb NOx /mmBtu of actual heat input (12.8 lbs/hr, 56.1 tons/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb NOx /mmBtu emission standard by multiplying the maximum hourly natural gas combustion rate (mmcu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 50 pounds NOx /mm cu. ft. of natural gas and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb NOx /hr emission limitation may be determined by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 50 lb NOx /mm cu. ft. of natural gas. Compliance with the annual emission limitation may be demonstrated by multiplying the lb NOx /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

See also f)(1).
[OAC 3745-77-07(C)(1) and PTI 03-11260]

b. Emission Limitation(s): (natural gas)
0.134 lb CO /mmBtu of actual heat input (12.2 lbs/hr, 53.4 tons/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb CO /mmBtu emission standard by multiplying the maximum hourly natural gas combustion rate (mmcu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 84

pounds CO /mm cu. ft. of natural gas and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb CO /hr emission limitation may be determined by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-1 (revised 07/98) of 84 lb CO /mm cu. ft. of natural gas. Compliance with the annual emission limitation may be demonstrated by multiplying the lb CO /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

See also f)(1).
[OAC 3745-77-07(C)(1) and PTI 03-11260]

c. Emission Limitation(s): (natural gas)
0.014 lb PE /mmBtu of actual heat input (1.25 lbs/hr, 5.48 tons/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb PE /mmBtu emission standard by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 7.6 pounds PE /mm cu. ft. of natural gas and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb PE /hr emission limitation may be determined by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 7.6 lb PE /mm cu. ft. of natural gas. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 5.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

d. Emission Limitation(s): (natural gas)
0.007 lb VOC /mmBtu of actual heat input (0.65 lb/hr, 2.85 tons/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb VOC /mmBtu emission standard by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 5.5 pounds VOC /mm cu. ft. of natural gas and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb VOC /hr emission limitation may be determined by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 5.5 lb VOC /mm cu. ft. of natural gas. Compliance with the annual emission limitation may be demonstrated by multiplying the lb VOC /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 4 and 25.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

e. Emission Limitation(s): (natural gas)
0.0006 lb SO2 /mmBtu of actual heat input (0.055 lb/hr, 0.24 ton/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb SO2 /mmBtu emission standard by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 0.6 pounds SO2 /mm cu. ft. of natural gas and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb S02 /hr emission limitation may be determined by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hr) by the emission factor from AP-42 Table 1.4-2 (revised 07/98) of 0.6 lb SO2 /mm cu. ft. of natural gas. Compliance with the annual emission limitation may be demonstrated by multiplying the lb SO2 /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 4 and 6.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

f. Emission Limitation(s): (fuel oil)
0.161 lb NOx /mmBtu of actual heat input (14.0 lbs/hr, 61.3 tons/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb NOx /mmBtu emission standard by multiplying the maximum hourly fuel oil* combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-1 (revised 09/98) of 20 pounds NOx /1000 gal. of fuel oil and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb NOx /hr emission limitation may be determined by multiplying the maximum hourly fuel oil combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-1 (revised 09/98) of 20 lb NOx /1000 gal. of fuel oil. Compliance with the annual emission limitation may be demonstrated by multiplying the lb NOx /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

See also f)(1).
[OAC 3745-77-07(C)(1) and PTI 03-11260]

g. Emission Limitation(s): (fuel oil)
0.136 lb CO /mmBtu of actual heat input (11.8 lbs/hr, 51.7 tons/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb CO /mmBtu emission standard by multiplying the maximum hourly fuel oil combustion rate (1000's

gal/hr) by the emission factor from AP-42 Table 1.3-1 (revised 09/98) of 5 pounds CO /1000 gal. of fuel oil and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb CO /hr emission limitation may be determined by multiplying the maximum hourly fuel oil combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-1 (revised 09/98) of 5 lb NOx /1000 gal. of fuel oil. Compliance with the annual emission limitation may be demonstrated by multiplying the lb CO /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

See also f)(1).
[OAC 3745-77-07(C)(1) and PTI 03-11260]

h. Emission Limitation(s): (fuel oil)
0.016 lb PE /mmBtu of actual heat input (1.40 lb/hr, 6.13 ton/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb PE /mmBtu emission standard by multiplying the maximum hourly fuel oil combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-1 (revised 09/98) of 2 pounds (filterable) PM /1000 gal. of fuel oil and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb PE /hr emission limitation may be determined by multiplying the maximum hourly fuel oil combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-1 (revised 09/98) of 2 lb PM /1000 gal. of fuel oil. Compliance with the annual emission limitation may be demonstrated by multiplying the lb PE /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 5.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

i. Emission Limitation(s): (fuel oil)
0.014 lb OC /mmBtu of actual heat input (1.18 lb/hr, 5.17 tons/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb OC /mmBtu emission standard by multiplying the maximum hourly fuel oil* combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-3 (revised 09/98) of 0.56 pounds TOC /1000 gal. of fuel oil and dividing by the maximum heat input to the boiler (mmBtu/hr).

Compliance with the lb OC /hr emission limitation may be determined by multiplying the maximum hourly fuel oil combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-3 (revised 09/98) of 0.56 lb TOC /1000 gal. of fuel oil. Compliance with the annual emission limitation may be demonstrated by multiplying the lb OC /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 4, and 18, 25, and/or 25A.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

j. Emission Limitation(s): (fuel oil)
0.50 lb SO2 /mmBtu of actual heat input (43.4 lbs/hr, 190 tons/yr)

Applicable Compliance Method:
The permittee may demonstrate compliance with the lb SO2 /mmBtu emission standard by multiplying the maximum hourly fuel oil combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-1 (revised 09/98) of 142(S) pounds SO2 /1000 gal. of fuel oil and dividing by the maximum heat input to the boiler (mmBtu/hr). S = fuel sulfur content, in weight percent

Compliance with the lb SO2 /hr emission limitation may be determined by multiplying the maximum hourly fuel oil combustion rate (1000's gal/hr) by the emission factor from AP-42 Table 1.3-1 (revised 09/98) of 20 lb SO2 /1000 gal. of fuel oil. Compliance with the annual emission limitation may be demonstrated by multiplying the lb SO2 /hr by 8760 hr/yr, and then dividing by 2000 lbs/ton.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with 40 CFR 60, Appendix A, Methods 1- 4, and 6.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

k. Visible Emission Limitation(s):
20% opacity, as a six-minute average [See b)(2)b.]

Applicable Compliance Method:
If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
[OAC 3745-77-07(C)(1) and PTI 03-11260]

l. Sulfur Content Limitation(s):
0.5 weight per cent sulfur in fuel oil

Applicable Compliance Method(s):
Compliance shall be based on the record keeping requirements as specified in d)(1).
[OAC 3745-77-07(C)(1) and PTI 03-11260]

g) Miscellaneous Requirements

(1) Note: This emissions unit had a Prevention of Significant Deterioration (PSD) netting determination associated with PTI 03-11260.

## 2. F002, Sanders Grain Dryer

**Operations, Property and/or Equipment Description:**

column grain dryer (Sanders)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | 40 CFR 60.300 et seq.<br>(NSPS Subpart DD) | See b)(2)a. |
| b. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-3603 issued August 3, 1988) | 2.88 lb fugitive particulate emissions (PE) /hr, 12.6 ton /yr<br><br>See b)(2)b. |
| c. | OAC rule 3745-17-07(B)(1) | See b)(2)c. |
| d. | OAC rule 3745-17-08(B)(1) | See b)(2)d. |

(2) Additional Terms and Conditions

a. The column plate perforations shall not exceed 0.094 inch.
[40 CFR 60.302(a)(1)]

b. The requirements of this rule also include compliance with the requirements of 40 CFR 60.300 et seq. (NSPS Subpart DD).

c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

d. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

Emission Limitation:
2.88 lb fugitive PE /hr
12.6 ton fugitive PE /yr

Applicable Compliance Method:
Compliance may be determined by the sum of 'a' and 'b' as follows:

a. multiply the maximum hourly throughput (tons/hour) by the emission factor from AP-42, Table 9.9.1-1 (revised 5/98) of 0.22 pound PE/ton by a control factor of (1-.9);*

b. multiply the maximum hourly natural gas combustion rate (mmcu. ft./hour) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 pounds PE (filterable)/mmcu. ft.

* The control efficiency of the perforations is assumed to be 90%.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC 3745-77-07(C)(1) and PTI 03-3603]

g) Miscellaneous Requirements

(1) None.

**3. F003, Bean Bowl #2, Soft Cover**

**Operations, Property and/or Equipment Description:**

bean bowl #2 (soft cover) with choke loader, telescopic spout - grain storage

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-3408 issued July 13, 1988) | 12.8 ton fugitive particulate emissions (PE) /yr<br><br>See b)(2)a. |
| b. | 40 CFR 60.302(b)(2)<br>(NSPS Subpart DD) | Visible fugitive PE shall not exceed 0% opacity, as a six-minute average. |
| c. | OAC rule 3745-17-07(B)(1) | See b)(2)b. |
| d. | OAC rule 3745-17-08(B)(1) | See b)(2)c. |

(2) Additional Terms and Conditions

a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of 40 CFR 60.300 et seq. (NSPS Subpart DD).

Best available technology (BAT) for this emissions unit has been determined to be the use of choke loader(s) and telescopic spout(s).

b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

c. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. the total duration of any visible emission incident; and
c. any corrective actions taken to eliminate the visible emissions.
[OAC 3745-77-07(C)(1) and PTI 03-3408]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC 3745-77-07(C)(1) and PTI 03-3408]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
12.8 ton fugitive PE /yr

Applicable Compliance Method:
Compliance may be determined by multiplying the maximum hourly throughput (tons/hour) by the emission factor from AP-42, Table 9.9.1-1 (revised 04/03) of 0.061 pound PE/ton, then by a control factor of (1-.9)*, then by 8760 hr/yr, and then dividing by 2000 lb/ton.

* The emission reduction efficiency of the enclosures is assumed to be 90%.
[OAC 3745-77-07(C)(1) and PTI 03-3408]

b. Emission Limitation:
Visible fugitive PE shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method:
If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 9 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002, and the modifications listed in paragraph (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03(B)(3), and in 40 CFR 60.675(c)(1), as may be applicable.
[OAC 3745-77-07(C)(1) and PTI 03-3408]

g) Miscellaneous Requirements

(1) None.

**4. F004, Berico Grain Dryer**

**Operations, Property and/or Equipment Description:**

column grain dryer (Berico)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | 40 CFR 60.300 et seq.<br>(NSPS Subpart DD) | See b)(2)a. |
| b. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-6388 as modified May 24, 2000) | 2.04 lb fugitive particulate emissions (PE) /hr, 8.94 ton /yr<br><br>1.96 lb fugitive nitrogen oxides (NOx) /hr, 8.58 ton /yr<br><br>There shall be no fugitive visible PE from this emissions unit.<br><br>See b)(2)b. |
| c. | OAC rule 3745-17-07(B)(1) | See b)(2)c. |
| d. | OAC rule 3745-17-08(B)(1) | See b)(2)d. |

(2) Additional Terms and Conditions

a. The column plate perforations shall not exceed 0.094 inch.
[40 CFR 60.302(a)(1)]

b. The requirements of this rule also include compliance with the requirements of 40 CFR 60.300 et seq. (NSPS Subpart DD).

c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

d. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
2.04 lb fugitive PE /hr
8.94 ton fugitive PE /yr

Applicable Compliance Method:
Compliance may be determined by the sum of 'a' and 'b' as follows:

i. multiply the maximum hourly throughput (tons/hour) by the emission factor from AP-42, Table 9.9.1-1 (revised 5/98) of 0.22 pound PE/ton by a control factor of (1-.9);*

ii. multiply the maximum hourly natural gas combustion rate (mmcu. ft./hour) by the emission factor from AP-42, Table 1.4-2 (revised 7/98) of 1.9 pounds PE (filterable)/mmcu. ft.

* The control efficiency of the perforations is assumed to be 90%.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC 3745-77-07(C)(1) and PTI 03-6388]

b. Emission Limitation:
1.96 pounds NOx/hour

Applicable Compliance Method:
Compliance may be determined by multiplying the maximum hourly natural gas combustion rate (mm cu. ft./hour) by the emission factor from AP-42 Table, 1.4-1 (revised 07/98) of 100 pounds NOx/mm cu. ft.
[OAC 3745-77-07(C)(1) and PTI 03-6388]

c. Emission Limitation:
There shall be no fugitive visible PE from this emissions unit.

Applicable Compliance Method:
If required, compliance shall be determined by visible emission evaluations performed in accordance with USEPA Reference Method 22 as set forth in "Appendix A on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources").
[OAC 3745-77-07(C)(1) and PTI 03-6388]

g) Miscellaneous Requirements

(1) None.

**5. F005, No.3 Grain Dump**

**Operations, Property and/or Equipment Description:**

No. 3 grain dump (truck, rail)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-17-07(B)(1) | See b)(2)a. |
| b. | OAC rule 3745-17-08(B)(1) | See b)(2)b. |

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

**6. F006, No.1 Truck Dump**

**Operations, Property and/or Equipment Description:**

No. 1 truck (grain) dump

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-17-07(B)(1) | See b)(2)a. |
| b. | OAC rule 3745-17-08(B)(1) | See b)(2)b. |

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

## 7. F007, No.2 Truck Dump

**Operations, Property and/or Equipment Description:**

No. 2 truck (grain) dump

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-17-07(B)(1) | See b)(2)a. |
| b. | OAC rule 3745-17-08(B)(1) | See b)(2)b. |

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

## 7. F008, Elevator Rail Loadout

**Operations, Property and/or Equipment Description:**

elevator truck and rail loadout - 750 ton/hr max throughput

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-17-07(B)(1) | See b)(2)a. |
| b. | OAC rule 3745-17-08(B)(1) | See b)(2)b. |

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

**8. F009, Elevator TRK Loadout**

**Operations, Property and/or Equipment Description:**

Elevator TRK loadout (grain) (No.1 dump shed)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-17-07(B)(1) | See b)(2)a. |
| b. | OAC rule 3745-17-08(B)(1) | See b)(2)b. |

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

**9. F010, Texson Grain Dryer**

**Operations, Property and/or Equipment Description:**

column grain dryer (Texson)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | 40 CFR 60.300 et seq. (NSPS Subpart DD) | See b)(2)a. |
| b. | OAC rule 3745-31-05(A)(3) (PTI 03-1008 issued December 2, 1980) | See b)(2)b. |
| c. | OAC rule 3745-17-07(B)(1) | See b)(2)c. |
| d. | OAC rule 3745-17-08(B)(1) | See b)(2)d. |

(2) Additional Terms and Conditions

a. The column plate perforations shall not exceed 0.094 inch. [40 CFR 60.302(a)(1)]

b. The requirements of this rule also include compliance with the requirements of 40 CFR 60.300 et seq. (NSPS Subpart DD).

c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

d. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

**10. F011, Aeration-Grain Storage**

**Operations, Property and/or Equipment Description:**

aeration operations - 32 grain storage silos

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-10637 issued July 23, 1997) | 5.17 lb fugitive particulate emissions (PE) /hr, 22.6 ton/yr<br><br>Visible fugitive PE shall not exceed 20% opacity, as a three-minute average. |
| b. | OAC rule 3745-17-07(B)(1) | See b)(2)a. |
| c. | OAC rule 3745-17-08(B)(1) | See b)(2)b. |

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;
b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
d. the total duration of any visible emission incident; and
e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC 3745-77-07(C)(1) and PTI 03-10637]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC 3745-77-07(C)(1) and PTI 03-10637]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
5.17 lb fugitive PE /hr, 22.6 ton/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the hourly limitation by multiplying the estimated maximum aeration gas particulate concentration of 0.003 gr/dscf by the total maximum volumetric air flow rate of 201,000 acfm, then multiplying by lb/7000 grains and 60 minutes/hour.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC 3745-77-07(C)(1) and PTI 03-10637]

b. Emission Limitation:
Visible fugitive PE shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:
If required, compliance with the visible emission limitation listed above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) through (B)(3)(d) of OAC rule 3745-17-03.
[OAC 3745-77-07(C)(1) and PTI 03-10637]

g) Miscellaneous Requirements

(1) None.

## 11. F013, Meal Rail Car Loading

**Operations, Property and/or Equipment Description:**

railcar loadout (soybean meal), with partial enclosure and choke flow

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-17-07(B)(1) | See b)(2)a. |
| b. | OAC rule 3745-17-08(B)(1) | See b)(2)b. |

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

**12. F014, #1 Bean Bowl, Hard Cover**

**Operations, Property and/or Equipment Description:**

bean bowl #1, with choke flow and enclosure

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-17-07(B)(1) | See b)(2)a. |
| b. | OAC rule 3745-17-08(B)(1) | See b)(2)b. |

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. The facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B)(1).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

**13. P006, E&W Elevator House Aspiration System**

**Operations, Property and/or Equipment Description:**

E&W elevator house aspiration system, with process baghouses

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-17-11(B)(2) | none (See b)(2)a.) |
| b. | OAC rule 3745-17-07(A) | none (See b)(2)b.) |

(2) Additional Terms and Conditions

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 lbs / hr. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(ii), Figure II of OAC rule 3745-17-11 does not apply. Also, Table 1 does not apply because the facility is located in Huron County.

b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because OAC rule 3745-17-11 is not applicable.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.

f) Testing Requirements

(1) None.

g) Miscellaneous Requirements

(1) None.

## 14. P043, Conventional Hexane Extraction

**Operations, Property and/or Equipment Description:**

soybean oil extraction (with hexane) - conventional (with 3 cyclones)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-13045 as modified June 14, 2001) | 85.0 tons organic compounds (OC - hexane) /month, from emissions units P043 and P051, combined (point and fugitive)<br><br>0.267 gal of OC (hexane) 'loss' per ton of soybean processed (rolling, 6-month average) [See c)(1).]<br><br>811 tons of OC (hexane) per, rolling 12-month period, from emissions units P043 and P051, combined [See c)(1).]<br><br>5.90 lbs particulate emissions (PE) /hr, 25.8 tons PE /yr<br><br>[See b)(2)i.] |
| b. | OAC rule 3745-17-07(A) | Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule. |
| c. | OAC rule 3745-17-11(B)(2) | See b)(2)j. |
| d. | OAC rule 3745-21-07(G)(2) | See b)(2)k and c)(2). |
| e. | 40 CFR 63.2830 et seq.<br>(MACT - Subpart GGGG) | See 40 CFR 63.2840 [Table 1 (ix)]<br><br>0.20 gallon of OC (hexane -HAP) 'loss' per ton of soybean processed (rolling, 12-month average)<br><br>[See b)(2)a through b)(2)h.] |

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| | | |
| f. | 40 CFR 63.1-15<br>(40 CFR 63.2870 Table 1 of Subpart GGGG) | Table 1 in Section 63.2870 of 40 CFR Part 63 – Applicability of General Provisions to Subpart GGGG shows which parts of the General Provisions in 40 CFR 63.1-15 apply. |

(2) Additional Terms and Conditions

a. HAP loss requirements:

i. The emission requirements limit the number of gallons of HAP lost per ton of listed oilseeds processed. For each operating month, the permittee must calculate a compliance ratio which compares the actual HAP loss to the allowable HAP loss for the previous 12 operating months as shown in Equation 1 of this section. An operating month, as defined in 40 CFR 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 40 CFR 63.2850(c)(2) or (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2). Equation 1 of this section follows:

Compliance Ratio = Actual HAP Loss / Allowable HAP Loss

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

Compliance Ratio = [(f) x (Actual Solvent Loss)] /[0.64 x Oilseed x SLF]

Where:

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

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

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

Oilseed = Tons of oilseed processed during the previous 12 operating months, as shown in 40 CFR 63.2855 (conventional process).

SLF = The corresponding solvent loss factor (gal/ton) for conventional oilseed listed in Table 1 (0.2).

[40 CFR 63.2840(a)]

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

i. If the source processes any quantity of listed oilseeds in a calendar month and the source is not operating under an initial startup period or malfunction period subject to 40 CFR 63.2850, then the permittee must categorize the month as an operating month, as defined in 40 CFR 63.2872.

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

iii. If the source shuts down and processes no listed oilseed for an entire calendar month, then the permittee must categorize the month as a non-operating month, as defined in 40 CFR 63.2872. Exclude any non-operating months from the compliance ratio determination.

iv. If the source is subject to an initial startup period as defined in 40 CFR 63.2872, exclude from the compliance ratio determination any solvent and oilseed information recorded for the initial startup period.

v. If the source is subject to a malfunction period as defined in 40 CFR 63.2872, exclude from the compliance ratio determination any solvent and oilseed information recorded for the malfunction period.

[40 CFR 63.2840(b)]

c. If the compliance ratio is less than or equal to 1.00, the source was in compliance with the HAP emission requirements for the previous operating month.
[40 CFR 63.2840(c)]

d. The permittee, i.e. you, shall:

i. Maintain all the necessary records you have used to demonstrate compliance with Subpart GGGG in accordance with 40 CFR 63.2862.

ii. Submit the reports as specified in 40 CFR 63.2850(a)(5).

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

[40 CFR 63.2850(a)(4), (5), and (6)]

e. Existing sources under normal operation: The permittee must meet all of the requirements listed in Table 1 of 40 CFR 63.2850 for sources under normal operation.
[40 CFR 63.2850(b)]

f. Existing or new sources that have been significantly modified: An existing or new source that has been significantly modified must meet the requirements

associated with one of two compliance options. Within 15 days of the modified source startup date, you must choose to comply with one of the options listed in f.i or f.ii as follows:

i. Normal operation. Upon startup of a significantly modified existing or new source, the permittee must meet all of the requirements listed in 40 CFR 63.2850(a) and Table 1 of that section for sources under normal operation, and the schedules for demonstrating compliance for an existing or new source that has been significantly modified in Table 2 of that section.

ii. Initial startup period. For up to 3 calendar months after the startup date of a significantly modified existing or new source, the permittee must meet all of the requirements listed in 40 CFR 63.2850(a) and Table 1 of that section for sources operating under an initial startup period, and the schedules for demonstrating compliance for a significantly modified existing or new source operating under an initial startup period in Table 2 of that section. After a maximum of 3 calendar months, a new or existing source must meet all of the requirements listed in Table 1 of that section for sources under normal operation.

[40 CFR 63.2850(d)]

g. Existing or new sources experiencing a malfunction: A malfunction is defined in 40 CFR 63.2. In general, it means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or process equipment to function in a usual manner. If an existing or new source experiences an unscheduled shutdown as a result of a malfunction, continues to operate during a malfunction (including the period reasonably necessary to correct the malfunction), or starts up after a shutdown resulting from a malfunction, then the permittee must meet the requirements associated with one of two compliance options. Routine or scheduled process startups and shutdowns resulting from, but not limited to, market demands, maintenance activities, and switching types of oilseed processed, are not startups or shutdowns resulting from a malfunction and, therefore, do not qualify for this provision. Within 15 days of the beginning date of the malfunction, the permittee must choose to comply with one of the options listed in 'i' or 'ii' as follows:

i. Normal operation. The source must meet all of the requirements listed in 40 CFR 63.2850(a) and one of the options listed in 40 CFR 63.2850(e)(1)(i) through (iii).

ii. Malfunction period. Throughout the malfunction period, you must meet all of the requirements listed in 40 CFR 63.2850(a) and Table 1 of that section for sources operating during a malfunction period. At the end of the malfunction period, the source must then meet all of the requirements listed in Table 1 of that section for sources under normal operation.

[40 CFR 63.2850(e)]

h. The permittee must develop a written SSM plan in accordance with 40 CFR 63.6(e)(3). The permittee must complete the SSM plan before the compliance date for the source. The permittee must also keep the SSM plan on-site and readily available as long as the source is operational. The SSM plan provides

detailed procedures for operating and maintaining your source to minimize emissions during a qualifying SSM event for which the source chooses the 40 CFR 63.2850(e)(2) malfunction period, or the 40 CFR 63.2850(d)(2) initial startup period. The SSM plan must specify a program of corrective action for malfunctioning process and air pollution control equipment and reflect the best practices now in use by the industry to minimize emissions. Some or all of the procedures may come from plans developed for other purposes such as a Standard Operating Procedure manual or an Occupational Safety and Health Administration Process Safety Management plan. To qualify as a SSM plan, other such plans must meet all the applicable requirements of these NESHAP.
[40 CFR 63.2852]

i. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).

Best available technology (BAT) for this emissions unit has been determined to be the use of (a) cyclone(s) for control of PE.

j. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

k. On February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC) and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit. The rule rescindment and new rule shall be federally enforceable on the date the U.S. EPA approves a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the rule rescindment and new OAC rule 3745-21-07, the requirement to comply with OAC rule 3745-21-07 (G) (2) still exists as part of the federally-approved SIP of Ohio. It should be noted that the requirements to comply with OAC rule 3745-21-07(G)(2) shall terminate on the date the U.S. EPA approves the rule rescindment and new rule as a revision of the Ohio SIP.

c) Operational Restrictions

(1) Hexane consumption /loss, i.e., emission rates from the hexane extraction operations in emissions units P043 and P051 combined shall be determined on a "mass balance" basis. Consumption, i.e., emission rates shall not exceed the following levels:

a. total hexane consumption in emissions units P043 and P051 shall not exceed 285,400 gallons (811 tons)/rolling 12-month period;

b. total hexane consumption in emissions units P043 shall not exceed 0.267 gallon/ton crushed soybeans (0.00075 pound of hexane /pound of crushed soybeans), based on a 6-month rolling, weighted average; and,

c. the short-term loss of hexane from emissions units P043 and P051 shall not exceed 85.0 tons /month.

[OAC 3745-77-07(A)(1) and PTI 03-13045]

(2) The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

[OAC 3745-77-07(A)(1) and PTI 03-13045]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the cyclone(s) during operation of this emissions unit. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the cyclone on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the cyclone(s) is 0.5 to 10 inches of water.

This range(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a 'minor' permit modification.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(2) The permittee shall collect and record the following information each month, for emission units P043 and P051, combined:

a. the total quantity of soybeans weighed in the preparation process before the hexane extraction operation;

b. the total amount of hexane inventory lost in gallons/month;

c. the 6-month rolling weighted average hexane loss rate (gallons per ton of crushed soybeans, and pounds hexane per pound crushed soybeans);

d. the amount of hexane emitted in tons/month; and

e. the amount of hexane emitted in tons/rolling 12-month.

(Note: It is recognized that data, records, and calculations used for compliance with MACT Subpart GGGG standards may also serve as data, records, and calculations for this section where applicable.)
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(3) The permittee shall maintain records showing the organic compound materials used to be non-photochemically reactive. These records shall be maintained in accordance with the record-keeping requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(4) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR 63 Subpart GGGG, including the following sections:

63.2862(b) - compliance plan and SSM plan retention on-site

63.2862(c) - records for hexane mass balance calculations

63.346(d) - records for calculation of rolling 12-month averages and the 'compliance ratio'

63.2862(e) - records for startup, shutdown, and malfunction events

63.2863 - records retention
[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart GGGG]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the cyclone(s) was outside of the range specified by the manufacturer;

b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(2) The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:

a. any exceedances of the 85.0 tons OC (hexane) /month, from emissions units P043 and P051 combined;

b. any exceedances of the 0.267 gal of OC (hexane) 'loss' per ton;

c. any exceedance of the 811 tons of OC (hexane) per rolling 12-month period, from emissions units P043 and P051 combined; and

d. any incidence of use of a photochemically reactive material.

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(3) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart GGGG, including the following sections:

63.2860(c) - significant modification notifications, as applicable

63.2861(a) - annual compliance certification

63.2861(b) - deviation notification report

63.2861(c) - periodic startup, shutdown, and malfunction report

63.2861(d) - immediate startup, shutdown, and malfunction report
[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart GGGG]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
85.0 tons OC (hexane) /month, from emissions units P043 and P051 combined

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(2)d.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

b. Emission Limitation:
811 tons of OC (hexane) per rolling 12-month period, from emissions units P043 and P051 combined

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(2)e.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

c. Emission Limitation:
0.267 gal of OC (hexane) 'loss' per ton of soybean processed
[rolling 6-month average]

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(2)c.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

d. Emission Limitation:
0.20 gal of OC (hexane -HAP) 'loss' per ton of soybean processed
[rolling 12-month average]

Applicable Compliance Method:
Compliance shall be based on the requirements specified in b)(2)a through b)(2)c.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

e. Emission Limitation:
5.90 lb fugitive PE /hr, 25.8 ton/yr

Applicable Compliance Method:
The hourly PE limit was established in accordance with the results of emissions testing (August 1979) on a similar unit, and adjusting for capacity difference between the two units.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

f. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC 3745-77-07(C)(1) and PTI 03-13045]

g) Miscellaneous Requirements

(1) None.

**15. P050, Centrolex Process**

**Operations, Property and/or Equipment Description:**

Centrolex process - with condensers, carbon adsorption, distillation kettles, for acetone recovery

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3) (PTI 03-3111) | 35.0 pounds organic compounds (OC) /hr |
| b. | OAC rule 3745-21-07(G)(2) | See b(2)a and c)(1). |

(2) Additional Terms and Conditions

a. On February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC) and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit. The rule rescindment and new rule shall be federally enforceable on the date the U.S. EPA approves a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the rule rescindment and new OAC rule 3745-21-07, the requirement to comply with OAC rule 3745-21-07 (G) (2) still exists as part of the federally-approved SIP of Ohio. It should be noted that the requirements to comply with OAC rule 3745-21-07(G)(2) shall terminate on the date the U.S. EPA approves the rule rescindment and new rule as a revision of the Ohio SIP.

c) Operational Restrictions

(1) The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.
[OAC 3745-77-07(A)(1) and OAC 3745-31-05(A)(3)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain daily records of the following information for this emissions unit:

a. the amount of OC employed in this emissions unit (the input rate of OC into the process), in pounds;

b. the amount of OC, in pounds, that remains dissolved in the wastewater (from carbon adsorption regeneration, condenser, and distillation solvent recovery processes) and, therefore, is not emitted by this emissions unit*;

c. the amount of OC, in pounds, that is removed from this emissions unit and incinerated, and whether or not the incineration was performed on site or off site;

d. the OC emissions from the process {d)(1)a – [d)(1)b + d)(1)c)]}, in pounds;

e. the number of hours the emissions unit was in operation; and

f. the average hourly OC emission rate from this operation [d)(1)d / d)(1)e], in pounds /hour (average).

* volume of wastewater x OC wastewater concentration. OC concentration is a constant in this calculation, developed conservatively from company wastewater analysis (about 550 ppm by wt.).
[OAC 3745-77-07(C)(1) and OAC 3745-31-05(A)(3)]

(2) The permittee shall maintain records showing the organic compound materials used to be non-photochemically reactive. These records shall be maintained in accordance with the record-keeping requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and OAC 3745-31-05(A)(3)]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following for this emissions unit:

a. any exceedance of the 35.0 lb OC /hr; and

b. any incidence of use of a photochemically reactive material.

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and OAC 3745-31-05(A)(3)]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

Emission Limitation:
35.0 lb OC /hr (average)

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(1).
[OAC 3745-77-07(C)(1) and OAC 3745-31-05(A)(3)]

g) Miscellaneous Requirements

(1) The OC emissions limit in the Permit to Install (PTI) for this emissions unit was incorrectly determined for the maximum capacity. The corrected OC emissions at maximum capacity are 55 pounds OC per hour (point and fugitive). Therefore, as the initial step for this emissions unit to achieve continuous compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.
[OAC 3745-77-07(C)(1)]

## 16. P051, Specialty Soybean Extraction

**Operations, Property and/or Equipment Description:**

soybean oil extraction (with hexane and alcohol) - specialty (with 3 baghouses)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-13045 as modified June 14, 2001) | 85.0 tons organic compounds (OC - hexane) /month, from emissions units P043 and P051 combined (point and fugitive)<br><br>1.25 gal of OC (hexane) 'loss' per ton of soybean processed [rolling 6-month average] [See c)(2).]<br><br>811 tons of OC (hexane) per rolling 12-month period, from emissions units P043 and P051 combined [See c)(1).]<br><br>58.0 tons OC (alcohol) /month, from emissions units P051 and P060 combined (point and fugitive)<br><br>552 tons of OC (alcohol) per rolling 12-month period, from emissions units P051 and P060 combined [See c)(2).]<br><br>2.30 lbs particulate emissions (PE) /hr, 10.1 tons PE /yr<br><br>[See b)(2)i.] |
| b. | OAC rule 3745-17-07(A) | Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule. |
| c. | OAC rule 3745-17-11(B)(2) | See b)(2)j. |
| d. | OAC rule 3745-21-07(G)(2) | See b)(2)k and c)(2). |

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| | | |
| e. | 40 CFR 63.2830 et seq.<br>(MACT - Subpart GGGG) | See 40 CFR 63.2840 [Table 1 (ix)]<br><br>1.7 gallons of OC (hexane -HAP) 'loss' per ton of soybean processed [rolling 12-month average]<br><br>[See b)(2)a through b)(2)h.] |
| f. | 40 CFR 63.1-15<br>(40 CFR 63.2870 Table 1 of Subpart GGGG) | Table 1 in Section 63.2870 of 40 CFR Part 63 – Applicability of General Provisions to Subpart GGGG shows which parts of the General Provisions in 40 CFR 63.1-15 apply. |

(2) Additional Terms and Conditions

a. HAP loss requirements:

i. The emission requirements limit the number of gallons of HAP lost per ton of listed oilseeds processed. For each operating month, the permittee must calculate a compliance ratio which compares the actual HAP loss to the allowable HAP loss for the previous 12 operating months as shown in Equation 1 of this section. An operating month, as defined in 40 CFR 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 40 CFR 63.2850(c)(2) or (d)(2) or a malfunction period subject to 40 CFR 63.2850(e)(2). Equation 1 of this section follows:

Compliance Ratio = Actual HAP Loss / Allowable HAP Loss

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

Compliance Ratio = [(f) x (Actual Solvent Loss)] /[0.64 x Oilseed x SLF]

Where:

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

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

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

Oilseed = Tons of oilseed processed during the previous 12 operating months, as shown in 40 CFR 63.2855 (specialty process).

SLF = The corresponding solvent loss factor (gal/ton) for specialty oilseed listed in Table 1 (1.7).

[40 CFR 63.2840(a)]

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

i. If the source processes any quantity of listed oilseeds in a calendar month and the source is not operating under an initial startup period or malfunction period subject to 40 CFR 63.2850, then the permittee must categorize the month as an operating month, as defined in 40 CFR 63.2872.

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

iii. If the source shuts down and processes no listed oilseed for an entire calendar month, then the permittee must categorize the month as a non-operating month, as defined in 40 CFR 63.2872. Exclude any non-operating months from the compliance ratio determination.

iv. If the source is subject to an initial startup period as defined in 40 CFR 63.2872, exclude from the compliance ratio determination any solvent and oilseed information recorded for the initial startup period.

v. If the source is subject to a malfunction period as defined in 40 CFR 63.2872, exclude from the compliance ratio determination any solvent and oilseed information recorded for the malfunction period.

[40 CFR 63.2840(b)]

c. If the compliance ratio is less than or equal to 1.00, the source was in compliance with the HAP emission requirements for the previous operating month.
[40 CFR 63.2840(c)]

d. The permittee shall:

i. Maintain all the necessary records you have used to demonstrate compliance with Subpart GGGG in accordance with 40 CFR 63.2862.

ii. Submit the reports as specified in 40 CFR 63.2850(a)(5).

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

[40 CFR 63.2850(a)(4), (5), and (6)]

e. Existing sources under normal operation: The permittee must meet all of the requirements listed in Table 1 of 40 CFR 63.2850 for sources under normal operation.
[40 CFR 63.2850(b)]

f. Existing or new sources that have been significantly modified: An existing or new source that has been significantly modified must meet the requirements associated with one of two compliance options. Within 15 days of the modified source startup date, you must choose to comply with one of the options listed in f.i or f.ii as follows:

i. Normal operation. Upon startup of a significantly modified existing or new source, the permittee must meet all of the requirements listed in 40 CFR 63.2850(a) and Table 1 of that section for sources under normal operation, and the schedules for demonstrating compliance for an existing or new source that has been significantly modified in Table 2 of that section.

ii. Initial startup period. For up to 3 calendar months after the startup date of a significantly modified existing or new source, the permittee must meet all of the requirements listed in 40 CFR 63.2850(a) and Table 1 of that section for sources operating under an initial startup period, and the schedules for demonstrating compliance for a significantly modified existing or new source operating under an initial startup period in Table 2 of that section. After a maximum of 3 calendar months, a new or existing source must meet all of the requirements listed in Table 1 of that section for sources under normal operation.

[40 CFR 63.2850(d)]

g. Existing or new sources experiencing a malfunction: A malfunction is defined in 40 CFR 63.2. In general, it means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment or process equipment to function in a usual manner. If an existing or new source experiences an unscheduled shutdown as a result of a malfunction, continues to operate during a malfunction (including the period reasonably necessary to correct the malfunction), or starts up after a shutdown resulting from a malfunction, then the permittee must meet the requirements associated with one of two compliance options. Routine or scheduled process startups and shutdowns resulting from, but not limited to, market demands, maintenance activities, and switching types of oilseed processed, are not startups or shutdowns resulting from a malfunction and, therefore, do not qualify for this provision. Within 15 days of the beginning date of the malfunction, the permittee must choose to comply with one of the options listed in g.i or g.ii as follows:

i. Normal operation. The source must meet all of the requirements listed in 40 CFR 63.2850(a) and one of the options listed in 40 CFR 63.2850(e)(1)(i) through (iii).

ii. Malfunction period. Throughout the malfunction period, you must meet all of the requirements listed in 40 CFR 63.2850(a) and Table 1 of that section for sources operating during a malfunction period. At the end of

the malfunction period, the source must then meet all of the requirements listed in Table 1 of that section for sources under normal operation.
[40 CFR 63.2850(e)]

h. The permittee must develop a written SSM plan in accordance with 40 CFR 63.6(e)(3). The permittee must complete the SSM plan before the compliance date for the source. The permittee must also keep the SSM plan on-site and readily available as long as the source is operational. The SSM plan provides detailed procedures for operating and maintaining your source to minimize emissions during a qualifying SSM event for which the source chooses the 40 CFR 63.2850(e)(2) malfunction period, or the 40 CFR 63.2850(d)(2) initial startup period. The SSM plan must specify a program of corrective action for malfunctioning process and air pollution control equipment and reflect the best practices now in use by the industry to minimize emissions. Some or all of the procedures may come from plans developed for other purposes such as a Standard Operating Procedure manual or an Occupational Safety and Health Administration Process Safety Management plan. To qualify as a SSM plan, other such plans must meet all the applicable requirements of these NESHAP.
[40 CFR 63.2852]

i. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).

Best available technology (BAT) for this emissions unit has been determined to be the use of (a) baghouse(s) for control of PE.

j. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

k. On February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC) and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit. The rule rescindment and new rule shall be federally enforceable on the date the U.S. EPA approves a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the rule rescindment and new OAC rule 3745-21-07, the requirement to comply with OAC rule 3745-21-07 (G) (2) still exists as part of the federally-approved SIP of Ohio. It should be noted that the requirements to comply with OAC rule 3745-21-07(G)(2) shall terminate on the date the U.S. EPA approves the rule rescindment and new rule as a revision of the Ohio SIP.

c) Operational Restrictions

(1) Hexane consumption /loss, i.e., emission rates from the hexane extraction operations in emissions units P043 and P051 combined shall be determined on a "mass balance" basis. Consumption, i.e., emission rates shall not exceed the following levels:

a. total hexane consumption in emissions units P043 and P051 shall not exceed 285,400 gallons (811 tons)/rolling 12-month period;

b. total hexane consumption in emissions unit P051 shall not exceed 1.25 gallon/ton crushed soybeans (0.0035 pound of hexane /pound of crushed soybeans), based on a 6-month rolling, weighted average; and,

c. the short-term loss of hexane from emissions units P043 and P051 shall not exceed 85.0 tons /month.

[OAC 3745-77-07(A)(1) and PTI 03-13045]

(2) Alcohol consumption /loss, i.e., emission rates from the alcohol extraction operations in emissions units P051 and P060 combined shall be determined on a "mass balance" basis. Consumption, i.e., emission rates shall not exceed the following levels:

a. total alcohol consumption in emissions units P051 and P060 shall not exceed 162,400 gallons (552 tons)/rolling 12-month period;

b. the short-term loss of hexane from emissions units P051 and P060 shall not exceed 58.0 tons /month.

[OAC 3745-77-07(A)(1) and PTI 03-13045]

(3) The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.
[OAC 3745-77-07(A)(1) and PTI 03-13045]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouses(s) during operation of this emissions unit. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the baghouse on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse(s) is 0.5 to 10 inches of water.

This range(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a 'minor' permit modification.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(2) The permittee shall collect and record the following information each month, for emission units P043 and P051 combined:

a. the total quantity of soybeans weighed in the preparation process before the hexane extraction operation;

b. the total amount of hexane inventory lost in gallons/month;

c. the 6-month rolling weighted average hexane loss rate (gallons per ton of crushed soybeans, and pounds hexane per pound crushed soybeans);

d. the amount of hexane emitted in tons/month; and

e. the amount of hexane emitted in tons/rolling 12-month.

(Note: It is recognized that data, records, and calculations used for compliance with MACT Subpart GGGG standards may also serve as data, records, and calculations for this section where applicable.)
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(3) The permittee shall collect and record the following information each month, for emission units P051 and P060 combined:

a. the total quantity of soybeans weighed in the preparation process before the alcohol extraction operation;

b. the total amount of alcohol inventory lost in gallons/month;

c. the amount of alcohol emitted in tons/month; and

d. the amount of alcohol emitted in tons/rolling 12-month.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(4) The permittee shall maintain records showing the organic compound materials used to be non-photochemically reactive. These records shall be maintained in accordance with the record-keeping requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(5) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR 63 Subpart GGGG, including the following sections:

63.2862(b) - compliance plan and SSM plan retention on-site

63.2862(c) - records for hexane mass balance calculations

63.346(d) - records for calculation of rolling 12-month averages and the 'compliance ratio'

63.2862(e) - records for startup, shutdown, and malfunction events

63.2863 - records retention
[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart GGGG]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the baghouse(s) was outside of the range specified by the manufacturer;

b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(2) The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:

a. any exceedances of the 85.0 tons OC (hexane) /month, from emissions units P043 and P051 combined;

b. any exceedances of the 1.25 gal of OC (hexane) 'loss' per ton;

c. any exceedance of the 811 tons of OC (hexane) per rolling 12-month period, from emissions units P043 and P051 combined;

d. any exceedances of the 58.0 tons OC (alcohol) /month, from emissions units P051 and P060 combined; and

e. any exceedance of the 552 tons of OC (alcohol) per rolling 12-month period, from emissions units P051 and P060 combined; and

f. any incidence of use of a photochemically reactive material.

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(3) The permittee shall comply with the applicable reporting requirements required under 40 CFR 63 Subpart N, including the following sections:

63.2860(c) - significant modification notifications, as applicable

63.2861(a) - annual compliance certification

63.2861(b) - deviation notification report

63.2861(c) - periodic startup, shutdown, and malfunction report

63.2861(d) - immediate startup, shutdown, and malfunction report
[OAC 3745-77-07(C)(1), and 40 CFR 63 Subpart GGGG]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
85.0 tons OC (hexane) /month, from emissions units P043 and P051 combined

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(2)d.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

b. Emission Limitation:
811 tons of OC (hexane) per rolling 12-month period, from emissions units P043 and P051 combined

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(2)e.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

c. Emission Limitation:
1.25 gal of OC (hexane) 'loss' per ton of soybean processed [rolling 6-month average]

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(2)c.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

d. Emission Limitation:
1.7 gal of OC (hexane -HAP) 'loss' per ton of soybean processed [rolling 12-month average]

Applicable Compliance Method:
Compliance shall be based on the requirements specified in b)(2)a through b)(2)c.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

e. Emission Limitation:
58.0 tons OC (alcohol) /month, from emissions units P051 and P060 combined

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(3)c.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

f. Emission Limitation:
552 tons of OC (alcohol) per rolling 12-month period, from emissions units P051 and P060 combined

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(3)d.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

g. Emission Limitation:
2.30 lb PE /hr, 10.1 ton/yr

Applicable Compliance Method:
The permittee shall demonstrate compliance with the hourly limitation by multiplying the estimated maximum baghouse(s) outlet concentration* of 0.005 gr/dscf by the total maximum volumetric air flow rate (53,600 acfm - the portion of total air flow associated with this emissions unit), then multiplying by lb/7000 grains and 60 min/hour.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.

* based upon manufacturer specifications
[OAC 3745-77-07(C)(1) and PTI 03-13045]

h. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC 3745-77-07(C)(1) and PTI 03-13045]

g) Miscellaneous Requirements

(1) None.

**17. P060, Ethanol Soybean Extraction**

**Operations, Property and/or Equipment Description:**

soybean oil extraction (with alcohol)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-13045 as modified June 14, 2001) | 58.0 tons OC (alcohol) /month, from emissions units P051 and P060 combined (point and fugitive)<br><br>552 tons of OC (alcohol) per rolling 12-month period, from emissions units P051 and P060, combined [See c)(1).] |
| b. | OAC rule 3745-21-07(G)(2) | See b)(2)a and c)(2). |

(2) Additional Terms and Conditions

a. On February 18, 2008 Ohio EPA rescinded existing rule 3745-21-07 of the Ohio Administrative Code (OAC) and adopted new rule 3745-21-07. The new OAC rule 3745-21-07 does not establish any requirements for this emissions unit. The rule rescindment and new rule shall be federally enforceable on the date the U.S. EPA approves a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the rule rescindment and new OAC rule 3745-21-07, the requirement to comply with OAC rule 3745-21-07 (G) (2) still exists as part of the federally-approved SIP of Ohio. It should be noted that the requirements to comply with OAC rule 3745-21-07(G)(2) shall terminate on the date the U.S. EPA approves the rule rescindment and new rule as a revision of the Ohio SIP.

c) Operational Restrictions

(1) Alcohol consumption /loss, i.e., emission rates from the alcohol extraction operations in emissions units P051 and P060 combined shall be determined on a "mass balance" basis. Consumption, i.e., emission rates shall not exceed the following levels:

a. total alcohol consumption in emissions units P051 and P060 shall not exceed 162,400 gallons (552 tons)/rolling 12-month period;

b. the short-term loss of hexane from emissions units P051 and P060 shall not exceed 58.0 tons /month.
[OAC 3745-77-07(A)(1) and PTI 03-13045]

(2) The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.
[OAC 3745-77-07(A)(1) and PTI 03-13045]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall collect and record the following information each month, for emission units P051 and P060 combined:

a. the total quantity of soybeans weighed in the preparation process before the alcohol extraction operation;

b. the total amount of alcohol inventory lost in gallons/month;

c. the amount of alcohol emitted in tons/month; and

d. the amount of alcohol emitted in tons/rolling 12-month.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

(2) The permittee shall maintain records showing the organic compound materials used to be non-photochemically reactive. These records shall be maintained in accordance with the record-keeping requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:

a. any exceedances of the 58.0 tons OC (alcohol) /month, from emissions units P051 and P060 combined; and

b. any exceedance of the 552 tons of OC (alcohol) per rolling 12-month period, from emissions units P051 and P060 combined; and

c. any incidence of use of a photochemically reactive material.

These reports shall be submitted in accordance with the reporting requirements specified in the Standard Terms and Conditions of this permit.
[OAC 3745-77-07(C)(1) and PTI 03-13045]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
58.0 tons OC (alcohol) /month, from emissions units P051 and P060 combined

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(1).
[OAC 3745-77-07(C)(1) and PTI 03-13045]

b. Emission Limitation:
552 tons of OC (alcohol) per rolling 12-month period, from emissions units P051 and P060 combined

Applicable Compliance Method:
Compliance shall be based on the record keeping requirements specified in d)(1).
[OAC 3745-77-07(C)(1) and PTI 03-13045]

g) Miscellaneous Requirements

(1) None.

**18. P066, Soybean Meal Cooler**

**Operations, Property and/or Equipment Description:**

Soybean Meal Cooler (with cyclone)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3) (PTI 03-9532 as modified February 22, 2001) | 3.93 lbs particulate emissions (PE) /hr, 17.2 tons/yr<br><br>2.93 tons particulate matter less than 10 microns in size (PM10) /hr, 12.8 tons PM10 /year<br><br>See b)(2)a. |
| b. | OAC rule 3745-17-07(A) | Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule. |
| c. | OAC rule 3745-17-11(B)(2) | See b)(2)b. |

(2) Additional Terms and Conditions

a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).

Best available technology (BAT) for this emissions unit has been determined to be the use of a cyclone.

b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the cyclone during operation of this emissions unit. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the cyclone on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the cyclone is 0.5 to 10 inches of water.

This range(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a 'minor' permit modification.
[OAC 3745-77-07(C)(1) and PTI 03-9532]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the cyclone was outside of the range specified by the manufacturer;

b. an identification of each incident of deviation described in (a) where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range, was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC 3745-77-07(C)(1) and PTI 03-9532]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
3.93 lb fugitive PE /hr, 17.2 ton/yr

Applicable Compliance Method:
The hourly PE limit was established in accordance with the results of emissions testing (August 1979) on a similar unit, and adjusting for capacity difference between the two units.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC 3745-77-07(C)(1) and PTI 03-9532]

Emission Limitation:

b. 3.14 lb fugitive PM10 /hr, 13.7 ton/yr
Applicable Compliance Method:

The hourly PE limit was established in accordance with the results of emissions testing (August 1979) on a similar unit, and adjusting for capacity difference between the two units. (80% of PE is PM10, based on determination by permittee)

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, as long as compliance with the hourly limitation is shown, compliance with the annual limitation shall be assumed.
[OAC 3745-77-07(C)(1) and PTI 03-9532]

c. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC 3745-77-07(C)(1) and PTI 03-9532]

g) Miscellaneous Requirements:

(1) None.

**19. P085, Extruder Aspiration**

**Operations, Property and/or Equipment Description:**

extruder aspiration - with process baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3) (PTI 03-13292 issued September 29, 1999) | 0.84 lb particulate emissions (PE) /hr, 3.68 tons PE /year<br><br>0.005 gr PE /dscf<br><br>See b)(2)a. |
| b. | OAC rule 3745-17-07(A) | Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule. |
| c. | OAC rule 3745-17-11(B)(2) | See b)(2)b. |

(2) Additional Terms and Conditions

a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).

Best Available Technology (BAT) for this emission unit has been determined to be the use of a control system consisting of a baghouse with a maximum outlet concentration of 0.005 gr/dscf.

b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) during operation of this

emissions unit. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the baghouse on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 1.0 to 10 inches of water.

This range(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a 'minor' permit modification.
[OAC 3745-77-07(C)(1) and PTI 03-13292]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the baghouse(s) was outside the acceptable range(s);

b. an identification of each incident of deviation described in (a) above where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range(s), was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC 3745-77-07(C)(1) and PTI 03-13292]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
0.005 gr PE /dscf
0.84 lb PE /hr, 3.68 tons PE /year

Applicable Compliance Method:
The 0.005 gr PE/dscf limitation is the established maximum outlet concentration for the baghouse. Compliance with the lb/hr limitation may be determined by multiplying the maximum baghouse outlet concentration of 0.005 gr/dscf by the baghouse's maximum volumetric air flow rate (19,600 acfm - the portion of total air flow associated with this emissions unit), then multiplying by lb/7000 grains and 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with 40 CFR 60, Appendix A, Methods 1 - 5.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, if compliance is shown with the hourly limitation, compliance is shown with the annual limitation.
[OAC 3745-77-07(C)(1) and PTI 03-13292]

b. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC 3745-77-07(C)(1) and PTI 03-13292]

g) Miscellaneous Requirements

(1) None.

**20. P086, TSPC Dryer**

**Operations, Property and/or Equipment Description:**

textured soy protein dryer - with process baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-13292 issued September 29, 1999) | 0.43 lb particulate emissions (PE) /hr, 1.88 tons PE /year<br><br>0.005 gr PE /dscf<br><br>See b)(2)a. |
| b. | OAC rule 3745-17-07(A) | Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule. |
| c. | OAC rule 3745-17-11(B)(2) | See b)(2)b. |

(2) Additional Terms and Conditions

a. The requirements of OAC rule 3745-31-05(A)(3) also include compliance with the requirements of OAC rule 3745-17-07(A).

Best Available Technology (BAT) for this emission unit has been determined to be the use of a control system consisting of a baghouse with a maximum outlet concentration of 0.005 gr/dscf.

b. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall properly operate, and maintain equipment to continuously monitor the pressure drop, in inches of water, across the baghouse(s) during operation of this

emissions unit. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop, in inches of water, across the baghouse on a weekly basis.

Whenever the monitored value for the pressure drop deviates from the range specified below, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation: the date and time the deviation began and the magnitude of the deviation at that time, the date(s) the investigation was conducted, the names of the personnel who conducted the investigation, and the findings and recommendations.

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the operation of the control equipment within the acceptable range(s) specified below, unless the permittee determines that corrective action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken: a description of the corrective action, the date it was completed, the date and time the deviation ended, the total period of time (in minutes) during which there was a deviation, the pressure drop readings immediately after the corrective action, and the names of the personnel who performed the work. Investigation and records required by this paragraph does not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

The acceptable range for the pressure drop across the baghouse is 1.0 to 10 inches of water.

This range(s) is effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the appropriate Ohio EPA District Office or local air agency. The permittee may request revisions to the range(s) based upon information obtained during future particulate emission tests that demonstrate compliance with the allowable particulate emission rate for this emissions unit. In addition, approved revisions to the range(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a 'minor' permit modification.
[OAC 3745-77-07(C)(1) and PTI 03-13292]

e) Reporting Requirements

(1) The permittee shall submit quarterly reports that identify the following information concerning the operation of the control equipment during the operation of this emissions unit:

a. each period of time when the pressure drop across the baghouse(s) was outside the acceptable range(s);

b. an identification of each incident of deviation described in (a) above where a prompt investigation was not conducted;

c. an identification of each incident of deviation described in (a) where prompt corrective action, that would bring the pressure drop into compliance with the acceptable range(s), was determined to be necessary and was not taken; and

d. an identification of each incident of deviation described in (a) where proper records were not maintained for the investigation and/or the corrective action.

These quarterly reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.
[OAC 3745-77-07(C)(1) and PTI 03-13292]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
0.005 gr PE /dscf
0.43 lb PE /hr, 1.88 tons PE /year

Applicable Compliance Method:
The 0.005 gr PE/dscf limitation is the established maximum outlet concentration for the baghouse. Compliance with the lb/hr limitation may be determined by multiplying the maximum baghouse outlet concentration of 0.005 gr/dscf by the baghouse's maximum volumetric air flow rate (10,000 acfm - the portion of total air flow associated with this emissions unit), then multiplying by lb/7000 grains and 60 minutes/hour.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with 40 CFR 60, Appendix A, Methods 1 - 5.

The annual allowable PE limitation was developed by multiplying the hourly limitation by 8760, and then dividing by 2000. Therefore, if compliance is shown with the hourly limitation, compliance is shown with the annual limitation.
[OAC 3745-77-07(C)(1) and PTI 03-13292]

b. Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:
If required, compliance with the visible PE limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03(B)(1).
[OAC 3745-77-07(C)(1) and PTI 03-13292]

g) Miscellaneous Requirements

(1) None.

## 21. P901, Truck Meal/Hull Loadout Process

**Operations, Property and/or Equipment Description:**

truck meal loadout process (including cyclone) controlled with mechanical choke spout and aspiration system vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|---|---|---|
| a. | OAC rule 3745-31-05(A)(3)<br>(PTI 03-16378 issued September 22, 2005) | Fugitive Emissions from Truck Loading:<br>28.40 tons of particulate emissions (PE)/year<br><br>Visible fugitive PE shall not exceed 20% opacity as a three-minute average from truck loading operations<br><br>Stack Emissions from Baghouse:<br>6.57 tons of particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers (PM10)/year;<br><br>0.0035 gr PM10/dry standard cubic foot (dscf)<br><br>Visible PE shall not exceed 0% opacity as a six-minute average from the baghouse stack<br><br>See b)(2)a and b)(2)e. |
| b. | OAC rule 3745-17-07(B) | See b)(2)b. |
| c. | OAC rule 3745-17-08(B) | See b)(2)c. |
| d. | OAC rule 3745-17-11(B) | See b)(2)d. |
| e. | OAC rule 3745-17-07(A) | See b)(2)d. |

(2) Additional Terms and Conditions

a. The "Best Available Technology (BAT) control requirements for this emissions unit has been determined to be:

i. use of a mechanical choke load out spout; and

ii. use of an aspiration system vented to a baghouse for the fugitive emissions generated from loading operation using the mechanical choke load out spout. The baghouse shall achieve a maximum outlet concentration of 0.0035 gr PM10 /dscf.

b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

c. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A), this emissions unit is exempt from the requirements of OAC rule 3745-17-08.

d. The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

e. All particulate matter emissions from the baghouse stack are assumed to be PM10.

c) Operational Restrictions

(1) The maximum annual meal throughput for this emissions unit shall not exceed 785,045 tons.
[OAC 3745-77-07(A)(1) and PTI 03-16378]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the amount of meal throughput for this emissions unit (in tons per month and total tons, to date, for the calendar year).
[OAC 3745-77-07(C)(1) and PTI 03-16378]

(2) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for (a) any visible particulate emissions from the baghouse stack serving the truck loading operations and (b) fugitive visible emissions from the truck loading operation. The presence of absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. for visible particulate emissions from the baghouse stack serving the truck loading operation:

i. the color of the emissions;
ii. the total duration of any visible emissions incident; and
iii. any corrective actions taken to eliminate the visible emissions.

b. for fugitive particulate emissions from the truck loading operation:

i. the color and location of the emissions;
ii. whether the emissions are representative of normal operations;
iii. if emissions are not representative of normal operations, the cause of the abnormal emissions;
iv. the total duration of any visible emissions incident; and
v. any corrective actions taken to eliminate the visible emissions.

For d)(2)b, if visible emissions are present, a visible emissions incident has occurred. The observed does not have to document the exact start and end times for the visible emissions incident under item (iv) above or continue the check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.
[OAC 3745-77-07(C)(1) and PTI 03-16378]

e) Reporting Requirements

(1) The permittee shall submit annual reports that specify the total meal throughput for this emissions unit. These reports shall be submitted by January 31 of each year, and shall cover the previous calendar year.
[OAC 3745-77-07(C)(1) and PTI 03-16378]

(2) The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the baghouse stack serving the truck loading operation, (b) identify all days during which any abnormal visible fugitive particulate emissions were observed from the truck loading operation, and (c) describe any corrective actions taken to eliminate the visible particulate emissions and abnormal visible fugitive particulate emissions. These reports shall be submitted to the Northwest District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
[OAC 3745-77-07(C)(1) and PTI 03-16378]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following method(s):

a. Emission Limitation:
28.40 tons of PE/year (fugitive from truck loading operation)

Applicable Compliance Method:
The annual emission limitation was developed by applying a 60% capture efficiency to fugitive emissions generated from the loading operation. The fugitive emissions from the loading operation were calculated by multiplying a maximum meal throughput of 785,045 tons/year, an emission factor of 0.27 lb of PE/ton of meal (AP-42 Section 9.11.1, Vegetable Oil Processing [11/95]), a conversion factor of ton/2000 lbs, and applying a 33% control efficiency for use of a mechanical choke spout. Therefore, provided compliance is shown with the

maximum annual meal throughput, compliance with the annual limitation will be assumed.
[OAC 3745-77-07(C)(1) and PTI 03-16378]

b. Emission Limitation:
0.0035 gr PM10/dscf (stack)

Applicable Compliance Method:
The hourly emission limitation was based on the baghouse equipment manufacturer's guarantee. If required, the permittee shall demonstrate compliance with the gr/dscf limitation by testing in accordance with Methods 201 and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.
[OAC 3745-77-07(C)(1) and PTI 03-16378]

c. Emission Limitation:
6.57 tons of PM10/year (stack)

Applicable Compliance Method:
The ton per year emission limitation was developed by multiplying the emission limitation of 0.0035 gr PM10/dscf by the maximum volumetric flow rate (50,000 acfm), the maximum operating schedule of 8760 hours/year and applying the conversion factors of 60 minutes/hour, 2000 lbs/ton and 7000 grains/pound. Therefore, provided compliance is shown with the emission limitation of 0.0035 gr PM10/dscf compliance shall also be shown with the annual limitation.
[OAC 3745-77-07(C)(1) and PTI 03-16378]

d. Emission Limitation:
Visible fugitive PE shall not exceed 20% opacity as a three-minute average from truck loading operations

Applicable Compliance Method
If required, compliance with the visible emission limitation listed above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) through (B)(3)(d) of OAC rule 3745-17-03.
[OAC 3745-77-07(C)(1) and PTI 03-16378]

e. Emission Limitation:
Visible PE shall not exceed 0% opacity as a six-minute average from the baghouse stack

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance in accordance with 40 CFR, Part 60, Appendix A, Method 9.
[OAC 3745-77-07(C)(1) and PTI 03-16378]

g) Miscellaneous Requirements

(1) None.