

**A. INTRODUCTION**

PTI #03-13053 serves to modify two existing loadout operations (emissions units P901 and P902) and allows for the installation of pellet loadout tanks (emissions unit F006) at Archer Daniels Midland Company, which is a major facility for Title V. Emissions units P901 and P902 were installed in 1960 and 1970, respectively, and obtained Permits to Operate in 1992. However, permit modifications have been requested by the company to allow for an increase in production rates. Therefore, a Permit to Install for each emissions unit is now required.

PM<sub>10</sub> modeling was not performed because the facility PM<sub>10</sub> emissions increase is less than 10 tons per year.

**B. OPERATIONAL RESTRICTIONS**

1. The controlled visible emissions (VEs) from emissions units P901 and P902 shall not exceed 20% opacity as a six-minute average, except as provided by rule.
2. Fugitive emissions from emissions unit P901, P902, and F006 shall not exceed 20% opacity as a three-minute average.
3. The pressure drop across the baghouse shall be maintained within the range of 1 - 6 inches of water while emissions units P901 and P902 are in operation.

**C. MONITORING/RECORD KEEPING REQUIREMENTS**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. 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 across the baghouse on a daily basis.

**D. REPORTING REQUIREMENTS**

1. The permittee shall submit quarterly written reports summarizing the following:
  - a. any deviations (excursions) from emission

limitations and operational restrictions that have been detected by testing, monitoring, and record keeping requirements specified in this permit;

- b. all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in B.3;
- c. the probable cause of such deviations; and
- d. any corrective actions or preventive measures that have been or will be taken.

If no deviations occurred during the calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during the quarter.

The reports shall be submitted 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). All reports shall be submitted to the Northwest District Office.

**E. TESTING REQUIREMENTS**

1. Compliance with the organic compound and particulate matter emission limitations outlined in the Air Emissions Summary of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation - for P901 and P902 - the combined controlled emission limitation of 2.14 lbs PM<sub>10</sub>/hr and 9.39 tons PM<sub>10</sub>/year

Applicable Compliance Method - Compliance with the above limits shall be determined in accordance with the test method and procedures in OAC rule 3745-17-03 (B)(10). In the absence of Ohio EPA requiring such testing, the permittee may calculate emissions utilizing stack data from an identical unit.

- b. Emission Limitation - for P901 and P902 - the fugitive emission limitation of 0.84 tons PM<sub>10</sub>/year (for each emissions unit)

Applicable Compliance Method - Compliance with the above emission limitation shall be determined in

accordance with the following equation:

$$E = T \times F \times EF \times CE$$

where

E = emission rate (tons/year)

T = throughput (tons/year)

F = 5% (the amount of total throughput that bypasses the baghouse)

EF = AP-42 emission factor of 0.27 pound per ton of meal loaded (AP-42 Table 9.11.1-1, 11/95 edition)

CE = capture efficiency of 95% for enclosure (shed)

- c. Emission Limitation - for F006 - 1.93 tons PM<sub>10</sub>/year

Applicable Compliance Method - Compliance with the above emission limitation shall be determined by the following equation:

$$E = T \times EF \times D$$

where

E = emission rate (tons/year)

T = throughput (tons/year)

EF = AP-42 emission factor of 0.005 lb PM<sub>10</sub> per ton of material loaded  
(AP-42 Table 9.9.1-2, 11/95 edition)

D = worst-case AP-42 dustiness ratio of 2.5 (AP-42 Table 9.9.1-2, 11/95 edition)

- d. Emission Limitation - 20% opacity as a three-minute average (for fugitive emissions)

Applicable Compliance Method - OAC rule 3745-17-03(B)(3)

- e. Emission Limitation - 20% opacity as a six-minute

average (for controlled emissions)

Applicable Compliance Method - OAC rule 3745-17-03(B)(1)

**F. MISCELLANEOUS REQUIREMENTS**

None