

**ADDITIONAL SPECIAL TERMS AND CONDITIONS**

**INTRODUCTION**

The purpose of this Permit to Install (#03-13088) is to correct permitting deficiencies for an existing lime storage building and to allow for the installation of an enclosed conveyor and a charge bucket loading building by Philip Metals, Inc. This permit will include all of these emissions points under source number P901.

**A. APPLICABLE EMISSION LIMITATIONS AND/OR CONTROL REQUIREMENTS**

1. Lime Receiving and Handling, emissions unit P901:
  - a. Lime Storage Building:
    - i. The fabric filter shall achieve an outlet emission rate of not greater than 0.01 grains of particulate matter emissions per dry standard cubic foot of exhaust gases. This equates to a particulate matter emission limitation from the baghouse outlet of 1.07 pounds/hour and 4.69 tons/year. The visible emissions of particulate matter shall not exceed 20 percent opacity, as a six-minute average, from the outlet.
    - ii. Fugitive particulate matter emissions from the lime storage building shall be limited to 0.022 tons/year. The visible emissions of fugitive particulate matter shall not exceed 20 percent opacity as a 3-minute average.
  - b. Charge Bucket Loading Building and Conveyor:
    - i. The fabric filter shall achieve an outlet emission rate of not greater than 0.016 grains of particulate matter emissions per dry standard cubic foot of exhaust gases. This equates to a particulate matter emission limitation from each baghouse outlet of 8.23 pounds/hour and 22.52 tons/year. The visible emissions of particulate matter shall not exceed 20 percent opacity, as a six-minute average, from the outlet.
    - ii. Fugitive particulate matter emissions from the charge bucket loading building and

conveyor shall be limited to 0.008 ton/year. The visible emissions of fugitive particulate matter shall not exceed 20 percent opacity as a 3-minute average.

**B. OPERATIONAL RESTRICTIONS**

1. The pressure drop across both baghouses shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

**C. MONITORING AND/OR RECORDKEEPING REQUIREMENTS**

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across each 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 each baghouse on daily basis.
2. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

**D. REPORTING REQUIREMENTS**

1. The permittee shall submit quarterly written reports for emissions unit P901 of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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. 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 quarterly, i.e., 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.)

#### **E. TESTING REQUIREMENTS/COMPLIANCE METHOD DETERMINATIONS**

1. Compliance with the emission limitations listed in the Air Emission Summary of this PTI for emission unit P901 shall be determined in accordance with the following methods:

- a. Emission Limitation: 0.01 grains/dscf (equates to 1.07 lbs PE/hr, 4.69 TPY PE at 8760 hrs/yr) from the lime building storage baghouse

Applicable Compliance Method: Compliance with the PE emission rate 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 shall calculate actual PE emission rates for the unit utilizing the following equation: inlet grain loading rate (gr/scfm) x control efficiency x flow rate (ACFM).

- b. Emission Limitation: 0.022 TPY fugitive PE from lime storage building

Applicable Compliance Method: Compliance with the fugitive emission limitation can be shown with the AP-42 emission factors, Section 13.2.4 to calculate the actual rate of fugitive emissions.

- c. Emission Limitation: 0.016 grains/dscf (equates to 8.23 lbs PE/hr, 22.52 TPY PE at 8760 hrs/yr) from the charge bucket loading building and conveyor baghouse

Applicable Compliance Method: Compliance with the PE emission rate 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 shall calculate actual PE emission rates for the unit utilizing the following equation: inlet grain loading rate (gr/scfm) x control efficiency x flow rate (ACFM).

- d. Emission Limitation: 0.008 TPY fugitive PE from the charge bucket loading building and conveyor

Applicable Compliance Method: Compliance with the fugitive emission limitation can be shown with the

AP-42 emission factors, Section 13.2.4 to calculate the actual rate of fugitive emissions.

- e. Emission Limitation: 20% opacity as a 6-minute average from baghouse exhaust stacks

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

- f. Emission Limitation: 20% opacity as a 3-minute average from fugitive dust sources

Applicable Compliance Method: Compliance with the fugitive visible emission limitation shall be determined by visible emissions evaluations performed using the methods and procedures specified in USEPA Method 22.

Note: No term or condition specifying a method for demonstrating compliance with any emission limitation or other requirement of this permit shall preclude the use by any person of any credible evidence to establish compliance with or a violation of this permit, the Clean Air Act, or any implementing regulations or rules promulgated thereunder.

**F. MISCELLANEOUS REQUIREMENTS**

None