

Facility ID: 1431072121 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431072121 Emissions Unit ID: F015 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
coal crushing and screening	OAC rule 3745-31-02(A)(2) (PTI 14-4109)	9 lbs/hr of particulate matter (PM); 3.29 lbs/hr of particulate matter less than 10 microns in diameter (PM10); See Term A.2.d. 13.77 tons per year (tpy) of PM; 5.04 tpy of PM10
	OAC rule 3745-17-07(B)(1)	See Section B. Visible particulate emissions from any fugitive dust source shall not exceed 20% opacity, as a three-minute average, except as provided by rule.
	OAC rule 3745-17-08(B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (See Section A.2.)

2. Additional Terms and Conditions

- (a) A suitable dust suppressant shall be applied as needed to eliminate visible emissions during coal crushing and screening. The dust suppressant shall be applied at all points indicated in the attached diagrams (Attachment 1 from PTI 14-4109). All drop heights from stackers shall be minimized. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-02. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. The hourly PM and PM10 emission limitations outlined above are based upon the emissions unit's maximum rated capacity and control requirements outlined in this section, and represent the emissions unit's potential to emit. Therefore, no hourly records are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. Emissions unit F015 shall not be operated in excess of its maximum rated capacity (500 tons/hr).
2. No more than 1,530,000 tpy of coal, based on a rolling, 12-month summation, shall be processed through emissions unit F015.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform inspections on this emissions unit on at least an hourly basis, to determine if visible emissions are being emitted from the coal crushing and screening operation.

The permittee may, upon receipt of approval from Hamilton County Department of Environmental Services (HCDES), modify the above-mentioned frequency if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the visible emissions requirements.
2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee shall maintain the following records for this emissions unit:

- a. hourly records that verify that the coal crushing and screening operation occurring at that time was checked for visible emissions (this record shall include the date and time of the observation and indicate the presence or absence of any visible emissions);
 - b. daily records that document the times that dust suppressant was applied at the required locations during coal crushing and screening;
 - c. monthly records that document the amount of coal processed, in tons; and
 - d. the rolling, 12-month summation of the amount of coal processed, in tons. This information shall include the current month and the preceding eleven calendar months.
- D. Reporting Requirements**
1. The permittee shall immediately notify HCDES if the control measure requirements, as outlined in Section A.2, are not met. A report explaining the cause of and the extent of the violation shall be submitted within thirty (30) days of the occurrence.
 2. The permittee shall notify HCDES within thirty (30) days of any exceedances of the throughput limitations contained in Section B of this permit.
 3. The permittee shall submit semi-annual reports to HCDES which detail the following for this emissions unit:
 - a. the rolling, 12-month summation, for each month, of the amount of coal processed.

These semi-annual reports shall be submitted by January 30 and July 30 of each year and shall cover the previous six calendar months (July through December and January through June, respectively).
- E. Testing Requirements**
1. Compliance with the emission limits in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 Emission Limitation:
 9 lbs of PM/hr

 Applicable Compliance Method:
 The worst case hourly PM emissions shall be calculated by the following method:

$$E = (\text{maximum rated capacity of the emissions unit, in tons per hour}) \times (F1 + F2) \times (1-CE)$$
 where:

$$E = \text{PM emission rate (lbs/hr)}$$

$$\text{max. rated capacity} = 500 \text{ tons/hr}$$

$$F1 = \text{emission factor for primary crushing of coal, which is the ratio of the pounds of PM emitted to the amount of coal crushed, } 0.02 \text{ lb of PM/ton of coal (from RACM, Table 2.19-2)}$$

$$F2 = \text{emission factor for screening of coal, which is the ratio of the pounds of PM emitted to the amount of coal screened, } 0.16 \text{ lb of PM/ton of coal (from RACM, Table 2.19-2)}$$

$$CE = \text{estimated decimal fraction control efficiency provided by the control measures outlined in Section A.2 of this permit (i.e., wetting and chemical suppressants), } 0.90$$
 Emission Limitation:
 3.29 lbs/hr of PM10

 Applicable Compliance Method:
 The worst case PM10 emissions shall be calculated by multiplying the total hourly PM emissions by the decimal fraction of particulate matter that is less than or equal to 10 microns in diameter, or 0.366.
 Emission Limitation:
 13.77 tpy of PM

 Applicable Compliance Method:
 The worst case yearly PM emissions result from the maximum allowable annual throughput and shall be calculated by the following method:

$$E = (\text{maximum annual throughput, in tons per year}) \times (F1 + F2) \times (1-CE) / 2,000 \text{ lbs per ton.}$$
 where:

$$E = \text{PM emission rate (tpy)}$$

$$\text{max. amount of coal throughput} = 1,530,000 \text{ tons of coal/year}$$

$$F1 = \text{emission factor for primary crushing of coal, } 0.02 \text{ lb of PM/ton of coal (from RACM, Table 2.19-2)}$$

$$F2 = \text{emission factor for screening of coal, } 0.16 \text{ lb of PM/ton of coal (from RACM, Table 2.19-2)}$$

$$CE = \text{estimated decimal fraction control efficiency, } 0.90$$
 Emission Limitation:
 5.04 tpy of PM10

 Applicable Compliance Method:
 The worst case yearly PM10 emissions shall be calculated by multiplying the total yearly PM emissions by the decimal fraction of particulate matter that is less than or equal to 10 microns in diameter, or 0.366.
 Emission Limitation:
 Visible particulate emissions shall not exceed 20% opacity, as a three-minute average, except as provided by rule.

 Applicable Compliance Method:
 Compliance shall be determined in accordance with the method specified in OAC rule 3745-17-03(B)(3).
 Production Limitation:
 No more than 1,530,000 tpy of coal, based on a rolling, 12-month summation, shall be processed through emissions unit F015.

Applicable Compliance Method:

Compliance with the above limitation shall be determined using the records maintained pursuant to Section C.3 of this permit.

F. **Miscellaneous Requirements**

1. If probable cause exists indicating that this emissions unit is causing or contributing to a nuisance in violation of Ohio Administrative Code rule 3745-15-07, the owner or operator of the emissions unit shall be required to submit and implement a control program which will bring the emissions unit into compliance.