

Facility ID: 1677130074 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: 1677130074 Emissions Unit ID: P001 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> |
|--|--------------------------------------|---|
| metallizing system - including electric arc-melt unit, aluminum wire feeders, jet-air spray, and dust hood - air emissions of particulate matter (PM) vented to and controlled by a dust collector | OAC rule 3745-31-05 (PTI 16-02077) | 10% opacity from any stack, as a 6-minute average; and 0.551 lb/hr and 2.41 tpy of PM [See sections A.2 and B.1 below for additional requirements of OAC rule 3745-31-05.] |
| | OAC rule 3745-17-07 | The visible particulate emissions limitation required by OAC rule 3745-17-07 is less stringent than the visible particulate emissions limitation established pursuant to OAC rule 3745-31-05. |
| | OAC rule 3745-17-11 | The mass particulate emissions limitation required by OAC rule 3745-17-11 is equal to or less stringent than the mass particulate emissions limitation established pursuant to OAC rule 3745-31-05. |

2. Additional Terms and Conditions

- (a) The permittee shall properly adjust, operate, and maintain emissions unit P001, in accordance with the manufacturer's recommendations, instructions, and operating manuals, to the extent possible with good engineering design.
The permittee shall properly adjust, operate, and maintain the dust collector system (i.e., fabric filter, or comparable control device, hood, ductwork, fan, and any other equipment necessary to capture, contain, and vent air emissions of PM to the applicable air pollution control device) serving this emissions unit, in accordance with the manufacturer's recommendations, instructions, and operating manuals, to the extent possible with good engineering design.
The above hourly and yearly mass PM emission limitations (regulated under OAC rule 3745-31-05) are greater than the potential to emit for this emissions unit (determined from operational assumptions reported in the application), as demonstrated below in section E.1.b. Therefore, no record keeping, reporting, nor emission calculations are required to demonstrate compliance with these emission limitations. However, should compliance with these emission limitations ever become suspect, then the permittee may be required to perform emission testing, employing all applicable USEPA test methods, to establish accurate and representative emission limitations for this emissions unit.

B. Operational Restrictions

1. The dust collector system serving this emissions unit shall be employed at all times the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall document whether or not the dust collector system serving this emissions unit was in service when the emissions unit was in operation.
2. The permittee shall perform daily visible particulate emission checks of the dust collector system serving this emissions unit, while the emissions unit is in operation. The presence of any visible emissions from the dust collector system shall be noted in an operations log. If any visible emissions are observed from the system, corrective actions shall be taken to eliminate the visible emissions and these actions shall also be noted in the

operations log.

D. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record in which the dust collector system serving this emissions unit was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.
2. The permittee shall submit on a semi-annual basis a report which (a) identifies all days during which any visible particulate emissions were observed from the dust collector system and (b) describes the corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted by January 31 and July 31 of each year to the Director (District Office or local air agency).

E. Testing Requirements

1. Compliance with the emission limitations in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation: 10% opacity from any stack, as a 6-minute average

Applicable Compliance Method: If required, compliance shall be determined by visible emission evaluations performed in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(1).
Emission Limitation: 0.551 lb/hr and 2.41 tpy of PM

Applicable Compliance Method: The above emission limitations are greater than the potential to emit, as demonstrated in the equations below:

$$\text{PTEh} = (\text{MUm}_{\text{max}}) \times (\text{O}) \times (1-\text{C}); \text{ and}$$
$$\text{PTEy} = (\text{PTEh}) \times (8760 \text{ hours/year}) \times (1 \text{ ton}/2000 \text{ pounds})$$

where:

$$\text{PTEh} = 0.0068 \text{ lb/hr of PM [hourly potential emissions];}$$
$$\text{PTEy} = 0.030 \text{ tpy of PM [yearly potential emissions];}$$
$$\text{MUm}_{\text{max}} = 22.68 \text{ lbs/hr of metallizing material usage [maximum design capacity];}$$
$$\text{O} = 30\% \text{ or } 0.30 \text{ [overspray fraction]; and}$$
$$\text{C} = 99.9\% \text{ or } 0.999 \text{ [overall control efficiency of dust collector system].}$$

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.