

Facility ID: 1483140150 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: 1483140150 Emissions Unit ID: F002 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> |
|--|--------------------------------------|---|
| precast concrete panel sandblasting with baghouses | OAC rule 3745-31-05 (PTI 14-1827) | Particulate matter (PM) emissions shall not exceed 7.27 tons/year (TPY) of PM; 1.57 TPY of particulate matter with a diameter of 10 microns or smaller (PM10). Particulate emissions from the exhaust stack of each baghouse shall not exceed 0.030 grain/dry standard cubic foot. Visible particulate emissions of fugitive dust from the enclosures shall not exceed 10% opacity, as a three-minute average. There shall be no visible particulate emissions from any baghouse stack. See A.2 for control measures. |
| | OAC rule 3745-17-07(A)(1) | Less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3). |
| | OAC rule 3745-17-11(B)(1) | Less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3). |

2. **Additional Terms and Conditions**
 - (b) The permittee shall maintain the enclosures and baghouses serving the sandblasting operation and such enclosures and baghouses shall have an overall particulate emission control efficiency of 95% (based upon the manufacturer's design specifications).

B. Operational Restrictions

1. The pressure drop across each baghouse shall be maintained within the range of 1.0 to 6.0 inches of water column while the emissions unit is in operation.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly 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 a once per shift basis.
2. The permittee shall maintain monthly records of the weight of concrete panels sandblasted, in tons.
3. The permittee shall maintain yearly records of the weight of concrete panels sandblasted, in tons (summation of monthly weights recorded per Section C.2).

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified in Section B.1

of these terms and conditions. Each report shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days after the excursion occurs.

These permittee shall submit these reports in accordance with the reporting schedule in General Term and Condition 3.

E. 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 issuance of the permit and within 6 months prior to permit expiration;

b. the emission testing shall be conducted to demonstrate compliance with the allowable PE concentration, the overall PM control efficiency limitation, and the visible particulate emission limitations;

c. the following test methods shall be employed to demonstrate compliance with the allowable PE concentration, the overall PM control efficiency limitation, and the visible particulate emission limitations: for PE from stacks, Method 5 of 40 CFR, Part 60, Appendix A; for visible particulate emissions from stacks, Method 22 of 40 CFR, Part 60, Appendix A; for visible particulate emissions of fugitive dust, Method 9 (except the data reduction shall be in terms of three-minute averages) of 40 CFR, Part 60, Appendix A;

d. the tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Hamilton County Department of Environmental Services;

e. the average control efficiency (i.e., the average percent reduction in PE between the inlets and outlets of the control systems) shall be determined for use in the equation in Section E.5; and

f. Methods 9 and 22 tests shall be performed concurrently with the Method 5 tests.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. 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 tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Hamilton County Department of Environmental Services' refusal to accept the results of the emission tests.

Personnel from the Hamilton County Department of Environmental Services shall be permitted to witness the tests, 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 tests shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

2. Compliance with the visible particulate emission limitation for fugitive dust in Section A.1 of these terms and conditions shall be determined in accordance with Method 9 of 40 CFR, Part 60, Appendix A and the modification listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

3. Compliance with the visible particulate emission limitation for stack emissions shall be determined in accordance with Method 22 of 40 CFR, Part 60, Appendix A.

4. Compliance with the PE limitation of 0.030 grain/dry standard cubic foot shall be determined in accordance with the test method and procedures in Method 5 of 40 CFR, Part 60, Appendix A.

5. Compliance with the annual PM emission limitation in Section A.1 of these terms and conditions shall be determined by the summation of the stack and fugitive emissions calculated using the following equations containing an emission factor from Reasonably Available Control Measures for Fugitive Dust Sources (RACM), Section 2.23:

Stack Emissions: weight of the concrete panels sandblasted from Section C.3 (tons/year) X 1.55 lbs of PM/ton of concrete panels sandblasted) X capture efficiency (0.90) X (1 - fractional control efficiency established from the most recent compliance test) X ton/2000 lbs = TPY of PM;

Fugitive Emissions: weight of the concrete panels sandblasted (tons/year) X 1.55 lbs of PM/ton of concrete panels sandblasted) X uncaptured portion (0.10) X ton/2000 lbs = TPY of PM.

Based on RACM, Section 2.23, PM10 constitutes 22% of the PM emissions. Compliance with the annual PM10 emission limitation in Section A.1 of these terms and conditions shall be determined by taking 22% of the annual PM emissions calculated above.

F. Miscellaneous Requirements

1. If probable cause exists indicating the emission unit is causing or contributing to a nuisance, in violation of OAC rule 3475-15-07, the permittee shall be required to submit and implement a control program that will bring this emissions unit into compliance.