

Facility ID: 0857040757 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: 0857040757 Emissions Unit ID: P008 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>
Zinc electroplating line #5 equipped with a packed bed scrubber	OAC rule 3745-31-05(A)(3) PTI 08-2978	The particulate emissions (PE) from this emissions unit shall not exceed 0.7 lb/hr and 3.1 tons/yr. The hydrochloric acid (HCL) emissions from this emissions unit shall not exceed 0.4 lb/hr and 1.8 tons/yr. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	Visible particulate emissions from any stack shall not exceed twenty per cent opacity as a six-minute average, except as provided by rule.
	OAC rule 3745-17-07(A)	

2. Additional Terms and Conditions

- (a) The hourly and annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.
*The emission control system is common to emissions units P008, P009 and P010.

B. Operational Restrictions

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 1.4 inches of water at all times while the emissions unit is in operation.
2. The scrubber water flow rate shall be continuously maintained at a value of not less than 2 gallons per minute at all times while the emissions unit is in operation.
3. The pH of the scrubber liquor shall be maintained at or below 8.4.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
2. The permittee shall collect and record the following information each day:
 - a. The pressure drop across the scrubber, in inches of water, on a daily basis.

- b. The scrubber water flow rate, in gallons per minute, on a daily basis.
 - c. The operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
 - 3. The permittee shall properly install, operate and maintain equipment to continuously monitor and record the pH of the scrubber liquor while the emissions unit is in operation. The pH monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
 - 4. The permittee shall collect and record the following information each day:
 - a. The pH of the scrubber liquor, on a daily basis.
 - b. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
- D. **Reporting Requirements**
 - 1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
 - a. The static pressure drop across the scrubber.
 - b. The scrubber water flow rate.
 - 2. The permittee shall submit pH deviation (excursion) reports that identify all periods of time during which the scrubber liquor pH did not comply with the pH requirements specified above.
- E. **Testing Requirements**
 - 1. Compliance Method

Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation -
0.7 lb PE/hr

Applicable Compliance Method -
Compliance is based upon a stack test conducted on 09/30/97. If required compliance shall also be verified by conducting a stack test in accordance with USEPA Reference Methods 1-5, of 40 CFR Part 60, Appendix A.

Emission Limitation -
3.1 tons PE/yr

Applicable Compliance Method -
As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by the maximum annual operating schedule of 8,760 hours/year and then dividing by 2,000 lbs/ton).

Emission Limitation -
0.4 lb HCL/hr

Applicable Compliance Method -
Compliance is based upon a stack test conducted on 09/30/97. If required compliance shall also be verified by conducting a stack test in accordance with USEPA Reference Methods 26A, of 40 CFR Part 60, Appendix A.

Emission Limitation -
1.8 tons HCL/yr

Applicable Compliance Method -
As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by the maximum annual operating schedule of 8,760 hours/year and then dividing by 2,000 lbs/ton).

Opacity Limitation-
visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method-
Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the tests and procedures specified in USEPA Reference Method 9.
- F. **Miscellaneous Requirements**
 - 1. None