

Facility ID: 0125041154 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: 0125041154 Emissions Unit ID: D001 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>
Machine #1: New dry-to-dry machine with a refrigerated condenser	OAC rule 3745-31-05, and see F.1	The exhaust from the dry cleaning machine shall be vented through a refrigerated condenser or an equivalent control device.  1.35 tons perchloroethylene per rolling, 12-month period.
	OAC rule 3745-21-09(AA)	200 gallons perchloroethylene per rolling, 12-month period. This rule is less stringent or the same as that established above.
	40 CFR Part 63, Subparts A and M	This rule is less stringent or the same as that established above.
Machine #2: Existing dry-to-dry Machine.	OAC rule 3745-31-05 See F.1.	0.95 ton perchloroethylene per rolling, 12-month period.  140 gallons perchloroethylene per rolling, 12-month period.
	OAC rule 3745-21-09(AA)	This rule is less stringent or the same as that established above.
	40 CFR Part 63, Subparts A and M	This rule is less stringent or the same as that established above.

**2. Additional Terms and Conditions**

- (a) None

**B. Operational Restrictions**

1.
  - a. The permittee shall drain all cartridge filters in their housing, or other sealed container, for a minimum of 24 hours, or shall treat such filters in an equivalent manner, before removal from the dry cleaning machine.
  - b. The permittee shall store all perchloroethylene and wastes that contain perchloroethylene in solvent tanks or solvent containers with no perceptible leaks.
  - c. The door of each dry cleaning machine shall be closed at all times except to transfer articles to and from the machine.
  - d. The dry cleaning machines shall be operated and maintained according to manufacturer's specifications and recommendations.
  - e. The outlet gas-vapor stream temperature of the condensers shall be a maximum of 45 degrees Fahrenheit.
  - f. Perchloroethylene shall not be vented or released to the atmosphere while the dry cleaning machine drum is rotating.

g. The machine shall be operated with a diverter valve to prevent air drawn into the dry cleaning machine (when the machine door is open) from passing through the refrigerated condenser.

h. All equipment must be maintained so as to prevent the leaking of perchloroethylene liquid and prevent perceptible vapor leaks from gaskets, seals, ducts, and related equipment. Any equipment which is leaking shall not be operated until the leak is repaired.

**C. Monitoring and/or Record Keeping Requirements**

1. Visual Leak Monitoring Requirements

A leak detection and repair program to inspect all dry cleaning equipment for leaks that are obvious from sight, smell, or touch shall be conducted. Pursuant to OAC rule 3745-21-09(AA)(1)(e), any equipment found to be leaking perchloroethylene liquid or vapor is not to be operated until the leak is repaired. Leaks are to be repaired within 24 hours after being found, or repair parts ordered within 2 working days after detecting a leak that needs repair parts. Repair parts shall be installed within 5 working days after they are received. In accordance with 40 CFR Part 63 Subpart M, compliance with this requirement shall be determined through weekly visual inspection of the following components:

- a. hose and pipe connections, fittings, coupling and valves;
- b. machine door gaskets and seatings;
- c. filter gaskets and seatings;
- d. pumps;
- e. solvent tanks and containers;
- f. water separators;
- g. filter sludge recovery;
- h. distillation valves;
- i. diverter valves;
- j. saturated lint from the lint basket;
- k. cartridge filters and housings;
- l. muck cookers;
- m. stills; and
- n. exhaust dampers.

2. Control Equipment Monitoring Requirement

The temperature of the air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser shall be measured weekly with a temperature sensor. The temperature sensor shall be used according to the manufacturer's instructions and shall be designed to measure a temperature of 45 degrees Fahrenheit to an accuracy of plus or minus 2 degrees Fahrenheit.

3. Record Keeping Requirements

a. The following records shall be kept in a log for a period of not less than 5 years:

- i. Receipts of all perchloroethylene purchases.
- ii. The volume of perchloroethylene purchased each month as recorded from perchloroethylene purchases. If no perchloroethylene is purchased during a given month, then the entry to the log shall be zero gallons.
- iii. The calculation and result of the yearly perchloroethylene consumption for each machine, to be determined on the first day of every month. This calculation is performed by adding the amount of all the perchloroethylene purchased in each of the previous twelve months. If none was purchased in any one month, then the calculation is performed by adding zero gallon amount (which indicates that no purchases were made for that month) to the amount of perchloroethylene purchased each month of the previous 12 months.
- iv. The results of all visual inspections, including the dates when the dry cleaning system components are inspected for leaks and the name and location of dry cleaning system components where leaks are detected.
- v. The dates of repairs and records of written or verbal orders for repair parts.
- vi. The results of all tests required by this permit and the dates of the tests.

b. The following records shall be kept for a period of not less than 3 years:

- i. Control equipment maintenance.
- ii. The amount of fabric dry cleaned with perchloroethylene, from January 1 to December 31 of each year, in pounds.
- iii. A copy of the design specifications and the operating manuals for each dry cleaning system and each emission control device located at the dry cleaning facility shall be retained onsite.

**D. Reporting Requirements**

1. The permittee shall submit a signed statement, as required by 40 CFR 63.324(c), to the Director (appropriate District Office or local air agency) if the yearly perchloroethylene solvent consumption limits of 200 gallons for Machine #1 and/or 140 gallons for Machine #2, respectively, are exceeded as shown by the rolling annual perchloroethylene consumption calculation required by the record keeping requirements in section C.3.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation -  
200 gallons perchloroethylene per year as a rolling, 12-month summation for machine #1

Applicable Compliance Method -  
Compliance shall be determined by the record keeping requirements for perchloroethylene purchased and the calculation explained in Section C.3.a.iii.

2. Emission Limitation -  
1.35 tons perchloroethylene per rolling, 12-month period for machine #1

## Applicable Compliance Method -

Compliance shall be determined by multiplying the rolling, 12-month summation of perchloroethylene consumption times the specific density of perchloroethylene (0.00675 ton/gallon).

3. Emission Limitation -  
140 gallons perchloroethylene per year as a rolling, 12-month summation for machine #2

## Applicable Compliance Method -

Compliance shall be determined by the recordkeeping requirements for perchloroethylene purchased and the calculation explained in Section C.3.a.iii.

4. Emission Limitation -  
0.95 ton perchloroethylene per rolling, 12-month period for machine #2

## Applicable Compliance Method -

Compliance shall be determined by multiplying the rolling, 12-month summation of perchloroethylene consumption times the specific density of perchloroethylene (0.00675 ton/gallon).

**F. Miscellaneous Requirements**

1. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install #01-6741, as issued on April 16, 1997: sections A, B, C, D, and E.
2. The following terms and conditions shall supersede all the air pollution control requirements for this emissions unit contained in permit to install #01-6488, as issued on October 23, 1996: sections A, B, C, D, and E.
3. If the total yearly consumption of perchloroethylene exceeds 1800 gallons per year, this facility becomes a major source and must comply with the requirements for a major source per 40 CFR Part 63, Subpart M, within 180 days of the exceedance determination.