

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for **Sylvania Cleaners** located in **Lucas** County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source No</u>	<u>Source Identification/Description</u>	<u>BAT Determination</u>	<u>Applicable Federal and OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control & Usage Requirements</u>
D001	New Union dry-to-dry machine with a refrigerated condenser.	Compliance with terms and conditions of this permit and federal EPA MACT standard.	OAC 3745-21-09(AA) NESHAP (40 CFR Part 63 Subparts A and M) OAC 3745-21-10(J)	139 gal/year rolling 12-month summation of perchloroethylene.

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Perchloroethylene	0.94

ADDITIONAL SPECIAL TERMS AND CONDITIONS

Sylvania Cleaners
PTI 04-1150

I. Operational Restrictions

1. The exhaust from each dry cleaning machine shall be vented through a refrigerated condenser or an equivalent control device.
2. The waste from any diatomaceous earth filter which has been used to filter perchloroethylene shall contain no more than 25 percent by weight VOC, as determined under paragraph (J) of OAC rule 3745-21-10.
3. The waste from any distillation operation (solvent still) which has been used to distill perchloroethylene shall contain no more than 60 percent by weight VOC, as determined under paragraph (J) of OAC rule 3745-21-10.
4. Any disposable filter cartridge which has been used to filter perchloroethylene shall be drained in the filter housing for at least 24 hours before being discarded.
5. 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 perchloroethylene liquid or has a perceptible vapor leak shall not be operated until the leak is repaired.
6. The owner or operator shall store all perchloroethylene and wastes that contain perchloroethylene in solvent tanks or solvent containers with no perceptible leaks.
7. The door of each dry cleaning machine shall be closed at all times except to transfer articles to and from the machine.
8. The dry cleaning machine shall be operated and maintained according to manufacturer's specifications and recommendations.
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10. The outlet gas-vapor stream temperature of the condenser shall be a maximum of 45 degrees Fahrenheit.
11. Perchloroethylene shall not be vented or released to the atmosphere while the dry cleaning machine drum is rotating.

12. 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.

II. Monitoring and/or Record Keeping Requirements

1. 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 biweekly visual inspection of the following components while the dry cleaning system is operating:
 - 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. 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. If the outlet temperature is higher than 45 degrees Fahrenheit, adjustments or repairs shall be made to meet that value. Repair parts shall be ordered within 2 working days after detecting a violation that needs repair parts. Repair parts shall be installed within 5 working days after they are received.

3. The following records shall be kept on site in a log for a period of not less than 5 years, and shall be made available upon request:
 - a. Receipts of all perchloroethylene purchases.
 - b. The volume of perchloroethylene purchased each month as recorded from perchloroethylene purchases. If no perchloroethylene is purchased during a given month, then the entry in to the log shall be zero gallons.
 - c. The calculation and result of the yearly perchloroethylene consumption (12-month rolling summation), to be determined on the first day of each month.
 - d. The results of all visual inspections, including the dates when the dry cleaning system components are inspected for leaks and the name or location of dry cleaning system components where leaks are detected.
 - e. The dates of repair and records of written or verbal orders for repair parts.
 - f. The results and dates of all equipment monitoring required by this permit.
4. The following records shall be kept for a period of not less than three years:
 - a. Control equipment maintenance.
 - b. The amount of fabric dry cleaned with perchloroethylene, from January 1 to December 31 of each year, in pounds.
5. 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 and be made available upon request.

III. Reporting Requirements

1. If the yearly perchloroethylene solvent consumption limit specified in this permit is exceeded by the rolling annual perchloroethylene consumption calculation required by the recordkeeping requirements section of this permit, then the permittee shall submit a signed statement as required by 40 CFR 63.324(c).

IV. 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 methods:
 - a. Emission Limitation: 2000 gallons of perchloroethylene per year as a rolling, 12-month

summation

Applicable Compliance Method:

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

b. Emission Limitation: 8.9 tpy of perchloroethylene emissions

Applicable Compliance Method: Multiply the total perchloroethylene in gallons purchased (determined above) by the specific density of perchloroethylene (0.00675 tons/gal) to obtain the total perchloroethylene used in tons per year.

V. Miscellaneous Requirements

1. If the total yearly consumption of perchloroethylene exceeds 139 gallons per year, this facility becomes a large area source and must comply with the requirements for a large area source per 40 CFR 63, Subpart M, within 180 days of the exceedance determination.
2. The yearly perchloroethylene solvent consumption limit based on the yearly solvent consumption calculated according to 40 CFR 63.323(d) is 139 gallons.