

PREMISE NUMBER: 13-18-52-8171
FACILITY NAME: D.O.Summers Cleaners

PTI NUMBER: 13-3479

EQUIPMENT DESCRIPTION: New Dry -to -Dry machine with refrigerated condenser.

ADDITIONAL TERMS AND CONDITIONS

A. NESHAP control equipment requirements

1. Any dryer which contains articles cleaned in perchloroethylene shall be equipped and operated in accordance with one of the following:

(a) an exhaust from the dryer shall be vented through a carbon adsorber which emits no more than 100 parts per million by volume of perchloroethylene at any time; or

(b) the dryer shall be equipped with or vented to a refrigerated vapor condenser whereby there is no exhaust of perchloroethylene vapors to the ambient air throughout the drying cycle, except for when the dryer's door is momentarily opened during loading or unloading.

2. The exhaust from each dry to dry cleaning machine shall be vented through a refrigerated condenser or an equivalent control device.

B. Operational restrictions

1. 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 facility.

2. The permittee shall store all perchloroethylene and wastes that contain perchloroethylene in solvent tanks or solvent containers with no perceptible leaks.

3. The door of each dry cleaning machine shall be closed at all times except to transfer articles to and from the machine.

4. The dry cleaning machine shall be operated and maintained according to manufacturer's specifications and recommendations.

5. The outlet gas-vapor stream temperature of the condenser shall be a maximum of 45 degrees fahrenheit.

6. Perchloroethylene shall not be vented or released to the atmosphere while the

dry cleaning machine is rotating.

7. 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.

C. NESHAP monitoring requirements

1. Visual leak monitoring requirements

(a). 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 while the dry cleaning system is operating:

- (1) hose and pipe connections, unions, couplings, and valves;
- (2) machine door gaskets and seatings;
- (3) filter head gasket and seating;
- (4) pumps;
- (5) solvent tanks and containers;
- (6) water separators;
- (7) filter sludge recovery;
- (8) distillation valves;
- (9) diverter valves;
- (10) saturated lint from lint basket;
- (11) cartridge filters and housing;
- (12) muck cookers
- (13) stills; and
- (14) exhaust dampers.

2. Control Equipment Monitoring Requirement

(a) Weekly monitoring tests shall be performed to show that the temperature on the outlet side of the refrigerated condenser is less than or equal to 45°F to an accuracy of (+) or (-) 2°F. If this condition is not met, within 24 hours the equipment shall be shut down until repaired.

(b) Weekly monitoring tests shall be performed with a chlorometric detector tube to show that the concentration of perchloroethylene (PCE) in the exhaust from the carbon adsorber is not over 100 parts per million (by volume of PCE in air), to an accuracy of (+) or (-) 25 parts per million by volume. If this condition is not met, the equipment shall be shut down until repaired.

D. Record keeping requirements

1. 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 purchase.

(b) The volume of perchloroethylene purchased each month as recorded from a given perchloroethylene purchases. If no perchloroethylene is purchased during a 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 componenets 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 the permit.

2. 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.

3. 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

E. NESHAP reporting requirements

1. The permittee shall submit annual reports to Cleveland Local Air Agency which contain the following information:

(a) A summary of the results of all tests conducted to determine compliance with the limitations applicable to the emissions from a carbon adsorber, the waste from a diatomaceous earth filter, and the waste from a distillation operation (solvent still).

(b) The annual usage of perchloroethylene, in gallons.

(c) The annual amount of fabric dry cleaned with perchloroethylene, in pounds.

(d) The annual reports shall be submitted by January 31 of each year.

F. Miscellaneous Requirements

1. If the total yearly consumption of perchloroethylene exceeds 2100 gallons per year, this facility becomes a major source and must comply with the requirements for a major 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 1.36 tons per year.