

Facility ID: 0303010171 Issuance type: Final State Permit To Operate

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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: 0303010171 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> |
|--|--|--|
| 2 Dry-to-Dry Perchloroethylene Drycleaning Units - with Refrigerated Condenser | 40 CFR 63.320 et seq. (Subpart M) OAC 3745-31-05 (PTI #03-11190, issued 6/3/98) | 140 gallons perchloroethylene per rolling 12-month period operational restrictions, monitoring and maintenance, recordkeeping, reporting (see sections to follow) 0.95 ton perchloroethylene per year |
| | | operational restrictions, monitoring and maintenance, recordkeeping [see sections to follow - based on OAC 3745-21-09(AA)] The requirements of this rule also include compliance with the requirements of 40 CFR, Part 63, Subpart M. |

2. **Additional Terms and Conditions**
 - (a) The exhaust from each dry cleaning machine shall be vented through a refrigerated condenser or an equivalent control device.
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.

B. Operational Restrictions

1. 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.
2. 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.
3. 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.
4. 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.
5. The permittee shall close the door of each dry cleaning machine immediately after transferring articles to or from the machine, and shall keep the door closed at all other times.
6. The permittee shall operate and maintain the dry cleaning system according to the manufacturers' specifications and recommendations.
7. The permittee shall store all perchloroethylene and wastes that contain perchloroethylene in solvent tanks or solvent containers with no perceptible leaks.
8. The dry cleaning unit shall be operated to not vent or release the air-perchloroethylene gas-vapor stream contained within the dry cleaning machine to the atmosphere while the dry cleaning machine drum is rotating.

9. The dry cleaning unit shall be operated with a diverter valve, which prevents air drawn into the dry cleaning machine when the door of the machine is open from passing through the refrigerated condenser.
10. The air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser shall be equal to or less than 45 deg F.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall inspect the following components biweekly for perceptible leaks while the dry cleaning system is operating:
 - a. Hose and pipe connections, fittings, couplings, and valves;
 - b. Door gaskets and seatings;
 - c. Filter gaskets and seatings;
 - d. Pumps;
 - e. Solvent tanks and containers;
 - f. Water separators;
 - g. Muck cookers;
 - h. Stills;
 - i. Exhaust dampers;
 - j. Diverter valves;
 - k. Cartridge filter housings;
 - l. Distillation units;
 - m. Filter sludge recovery; and
 - n. Saturated lint from the lint basket.
2. The permittee shall repair all perceptible leaks detected under section C.1 within 24 hours. If repair parts must be ordered, either a written or verbal order for those parts shall be initiated within 2 working days of detecting such a leak. Such repair parts shall be installed within 5 working days after receipt.
3. The permittee shall measure the temperature of the air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser weekly with a temperature sensor to determine if it is equal to or less than 45 deg F. The temperature sensor shall be used according to the manufacturer's instructions and shall be designed to measure a temperature of 45 deg F to an accuracy of + or - 2 deg F. If the outlet temperature is higher than 45 deg F, adjustments or repairs shall be made to meet that value. Repair parts must be ordered within 2 working days of detecting such an exceedance that needs repair parts. Such repair parts shall be installed within 5 working days after receipt.
4. The permittee shall keep receipts of perchloroethylene purchases and a log of the following information and maintain such information on site and show it upon request for a period of 5 years:
 - a. The volume of perchloroethylene purchased each month by the dry cleaning facility as recorded from perchloroethylene purchases; if no perchloroethylene is purchased during a given month then the owner or operator would enter zero gallons into the log;
 - b. The dates when the dry cleaning system components are inspected for perceptible leaks, as specified in section C.1, and the name or location of dry cleaning system components where perceptible leaks are detected;
 - c. The dates of repair and records of written or verbal orders for repair parts to demonstrate compliance with sections C.2 and C.3, including any control equipment maintenance; and
 - d. The calculation and result of the yearly perchloroethylene consumption determined on the first day of each month, specified as follows:
 - i. Sum the volume of all perchloroethylene purchases made in each of the previous 12 months, as recorded in the log;
 - ii. If no perchloroethylene purchases were made in a given month, then the perchloroethylene consumption for that month is zero gallons; and
 - iii. The total sum calculated as such is the yearly perchloroethylene consumption at the facility.
5. The permittee shall retain onsite 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.
6. The permittee shall retain onsite any available recorded information or receipts indicating any determination of the perchloroethylene content of any diatomaceous earth filter wastes or distillation operation wastes, and show it upon request for a period of 5 years. (see sections B.1 and B.2)

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each occurrence during which the air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser was determined to be greater than 45 deg F.; and
 - b. any prescribed corrective action which was taken.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
2. The permittee shall submit annual deviation (excursion) reports which identify any exceedances of the annual perchloroethylene usage limitation contained in Section A. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
3. The permittee shall submit annual deviation (excursion) reports which identify any exceedances of the perchloroethylene content limitations contained in Sections B.1 and B.2. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
 - Usage Limitation
140 gallons perchloroethylene per rolling 12-month period

 - Applicable Compliance Method
Compliance shall be demonstrated by the monitoring and recordkeeping requirements contained in Section C.4.
 - Emission Limitation
0.95 ton perchloroethylene per year

 - Applicable Compliance Method
The annual perchloroethylene limit is based on the 140 gallons perchloroethylene per rolling 12-month period usage limit, times the density of perchloroethylene (13.5 lb/gal).

F. Miscellaneous Requirements

1. None