Facility ID: 0773010177 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

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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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
new dry-to-dry machine with a refrigerated condenser	OAC rule 3745-31-05 (PTI 07-432)	0.24 lb/hr of volatile organic compounds (VOC)
		0.31 tpy of VOC
	40 CFR Part 63, Subparts A and M	See A.2.a below.
	OAC rule 3745-21-09(AA)	See A.2.a below.

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.

B. **Operational Restrictions**

1. The waste from any diatomaceous earth filter which has been used to filter perchloroethylene shall contain no more than 25% 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 is to contain no more than 60% 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 store all perchloroethylene and wastes that contain perchloroethylene in solvent tanks or solvent containers with no perceptible leaks.

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

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

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

9. Perchloroethylene shall not be vented or released to the atmosphere while the dry cleaning machine drum is rotating.

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

C. **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. 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 need 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 a weekly visual inspection of the following components while the dry cleaning system is operating:

a. hose connections, unions, couplings, and valves;
b. machine door gaskets and seatings;
c. filter head gasket and seating;
d. pumps;
e. solvent tanks and storage containers;
f. water separators;
g. filter sludge recovery;
h. distillation valves;
i. diverter valves;
j. saturated lint from lint basket;
k. cartridge filter and housing;
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 with in 5 working days after they are received.

3. The permittee shall maintain a log of the following records:

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 (rolling, 12-month 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 and 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 temperature monitoring required by this permit;

g. control equipment maintenance;

h. the amount of fabric dry cleaned with perchloroethylene each day, in pounds;

i. the hours of operation per day of this emissions unit;

j. the average hourly VOC emission rate for each day, in pounds per hour (average) (see section E.1.a); and

k. the amount of fabric dry cleaned with perchloroethylene, from January 1 to December 31 of each year, in pounds.

4. 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 on site and be made available upon request.

D. **Reporting Requirements**

1. The permittee shall submit annual reports which contain the following information:

a. a summary of the results of all tests conducted to determine compliance with the VOC content limitations for the waste from diatomaceous earth filter and the waste from a solvent still;

b. the annual usage of perchloroethylene, in gallons; and

c. the annual amount of fabric dry cleaned with perchloroethylene, in pounds.

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

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

E. **Testing Requirements**

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
Emission Limitation:

0.24 lb/hr of VOC

Applicable Compliance Method:

Compliance shall be determined by multiplying an emission factor of 0.02 pound of VOC per pound of clothes cleaned by the pounds of clothes cleaned per day (from section C.3.h) and then divide by the hours of operation per day (from section C.3.i). This emission factor is specified in USEPA reference document AP-42,

Compilation of Air Pollution Emission Factors, Section 4.1, Table 4.1-1, Fifth Edition.

Emission Limitation:

0.31 tpy of VOC

Applicable Compliance Method:

Compliance with the mass emission limit listed in section A.1 of 0.31 ton of perchloroethylene per rolling, 12-month period is demonstrated by multiplying the rolling, 12-month consumption of perchloroethylene in gallons (required in section C.3.c) times the percentage (0.66) of perchloroethylene assumed to be emitted to the atmosphere (including vent and fugitive emissions) times the specific density of perchloroethylene (0.00675 ton/gallon).

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 Part 63, Subpart M, within 180 days of the exceedance.