Facility ID: 1413080457 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 Forenta dry-to-dry perchloroethylene dry cleaning machine controlled with a refrigerated condenser and ancillary equipment	OAC rule 3745-31-05 (PTI 14-05033)	The permittee shall not employ more than 360 gallons of perchloroethylene per rolling, 12-month period. Perchloroethylene emissions shall not exceed 2.4 tons per rolling, 12-month period.
	OAC rule 3745-21-09(AA)	See term A.2.
	40 CFR, Part 63, Subparts A & M	See term A.2.

2. **Additional Terms and Conditions**

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

B. **Operational Restrictions**

1. The waste from any diatomaceous earth filter that has been used to filter perchloroethylene shall contain no more than twenty-five percent (25%) VOC, by weight, as determined under paragraph (J) of OAC rule 3745-21-10.

2. The waste from any distillation operation (solvent still) that has been used to distill perchloroethylene shall contain no more than sixty percent (60%) VOC, by weight, as determined under paragraph (J) of OAC, rule 3745-21-10.

3. All cartridge filters shall be drained in their filter housing, or other sealed container, for at least 24 hours before removal from the dry cleaning facility.

4. All equipment shall 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 that 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 according to manufacturer's specifications and recommendations.

8. The outlet gas-vapor stream temperature of the condenser shall not exceed 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 to prevent air drawn into the dry cleaning machine (when the machine 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 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 two (2) working days after detecting a leak that needs repair parts. Repair parts shall be installed within five (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 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 lower the temperature to not exceed that temperature. Repair parts shall be ordered within two (2) working days after detecting a violation that needs repair parts. Repair parts shall be installed within five (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 five (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 into the log shall be zero gallons.

c. The calculation and result, determined on the first day of every month, of the rolling, 12-month summation of perchloroethylene consumed (based on the sum, in gallons, of all perchloroethylene purchased from the previous 12 months).

d. The results of all weekly 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 temperature monitoring required by this permit.

4. The following records shall be kept on site for a period of not less than three (3) years, and shall be made available upon request:

a. Control equipment maintenance.

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

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

d. The amount of perchloroethylene employed (used) each month, in gallons.

e. The amount of perchloroethylene employed, as a rolling, 12-month summation, in gallons.

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 on site and be made available upon request.

D. **Reporting Requirements**

1. If the rolling, 12-month summation of perchloroethylene consumed (as determined in Section C.3.c) exceeds 2100 gallons, the permittee shall submit a notification, signed by a responsible official, of the compliance status of the dry cleaning facility. The notification shall be sent to the Hamilton County Department of Environmental Services ("HAMCO") or to the U.S. EPA (Region 5), by registered mail, on or before 180 days of the date the records showed the exceedance and shall contain the following information:

a) the new yearly perchloroethylene solvent consumption rate as determined in C.3.c;

b) whether or not the facility has complied with each applicable requirement of 40 CFR, Part 63, Subpart M, Section 63.322; and

c) that all information contained in the notice is accurate and true.

2. The permittee shall notify HAMCO in writing of any record from Sections C.4.d and e showing that the perchloroethylene usage limitation specified in Section A.1 was exceeded. The notification shall include a copy of such record and shall be sent to HAMCO within 45 days after the exceedance occurs.

E. **Testing Requirements**

1. Compliance with the emission limitation and the usage limitation in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:

Emission Limitation:
Perchloroethylene emissions shall not exceed 2.4 tons per year, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance with the mass emission limit of 2.4 tons of perchloroethylene per rolling, 12-month period shall be determined by multiplying the yearly usage rate of perchloroethylene, in gallons, times the specific density of perchloroethylene (0.00675 ton/gallon). Compliance with this emission limitation is ensured if compliance is maintained with the annual perchloroethylene usage limitation.

Usage Limitation:
Perchloroethylene usage shall not exceed 360 gallons in any rolling, 12-month period.

Applicable Compliance Method:
Compliance with the perchloroethylene usage limitation shall be determined in accordance with the record keeping requirements in Section C.4.e.

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.