Facility ID: 0607090121 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: 0607090121 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.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
D001 - 50 lbs Columbia MEC 350 dry cleaning machine with refrigerated condenser and carbon adsorber.	OAC rule 3745-31-05(A)(3)	The permittee shall consume less than 140 gallons of perchoroethylene per rolling, 12-month period. Perchloroethylene emissions shall not exceed 0.62 ton per year. The requirements of this rule also include compliance with the requirements of 40 CFR part 63, Subparts A and M and OAC 3745-21-09(AA).
	40 CFR part 63, Subparts A and M	See A.2.a, B.5., B.6, B.7, B.8, B.9, B.10, and D.1, below.
	OAC rule 3745-21-09(AA)	See A.2.b, B.1, B.2, B.3, B.4, C.1, below.

2. **Additional Terms and Conditions**

   (a) This facility is a new small area source as defined in 40 CFR Part 63 Subpart M.
   The annual amount of fabric cleaned is less than 60,000 pounds therefore, this facility is exempt from OAC rule 3745-21-09(AA)(1)(a) per OAC rule 3745-21-09(AA)(2)(c).

B. **Operational Restrictions**

1. The waste from any diatomaceous earth filter which has been used to filter perchloroethylene is to contain no more than twenty-five per cent by weight volatile organic compounds, as determined under paragraph (J) of rule 3745-21-10 of the Administrative Code.

2. The waste from any distillation operation (solvent still) which has been used to distill perchloroethylene is to contain no more than sixty per cent by weight volatile organic compounds, as determined under paragraph (J) of rule 3745-21-10 of the Administrative Code.

3. Any disposable filter cartridge which has been used to filter perchloroethylene is to be drained in the filter housing for at least twenty-four 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 is not to be operated until the leak is repaired.

5. 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.

6. The permittee 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.

9. The exhaust from each dry cleaning machine shall be vented through a refrigerated condenser or an equivalent

control device.

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.

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 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 following records shall be kept on site 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.

g. Control equipment maintenance.

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

i. The annual perchloroethylene solvent consumption, in gallons.

j. The results of all tests conducted to determine compliance with the limitations contained in Section A.1.

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.

4. 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.

D. **Reporting Requirements**

1. 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. Emission Limitation:

   Perchloroethylene emissions shall not exceed 0.62 ton per year.

   Compliance Method:

   Compliance with the mass emission limit listed in Section A.1 of 0.62 ton perchloroethylene per year is demonstrated by multiplying the annual of perchloroethylene in gallons (required in Section III.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).

   (140 gallons/year of perchloroethylene used) x (0.00675 ton/gal) x (0.66) = 0.62 TPY

2. Emission Limitation:

   The permittee shall consume less than 140 gallons of perchoroethylene per rolling, 12-month period.

   Compliance Method:

   Compliance with the maximum usage limitation of less than 140 gallons perchloroethylene per year shall be determined through record keeping requirements III.3.c, above. Specifically, the permittee shall add the amount of perchloroethylene purchased each month to the amount purchased in the previous 11 months.

F. **Miscellaneous Requirements**

1. If the total yearly consumption of perchloroethylene exceeds 1800 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 140 gallons.