

State of Delaware
 Department of Natural Resources and Environmental Control
 Division of Air Quality
 655 S. Bay Rd., Suite 5N
 Dover, DE 19901

Perchloroethylene Dry Cleaner Source Category Permit

Facility Name: **Name Cleaners**
 Facility Address: **add address here**
 Facility Contact: **add contact name here**
 Facility I.D. Number: **XXXXXXXXXX**
 Permit Number: **APC-XXXX/XXXX-C/O (NESHAP)**

Facilities with only dry-to-dry machines or dry-to-dry and transfer machines are considered small if they use less than 140 gallons of PERC per year. Facilities with only transfer machines are considered small if they use less than 200 gallons of PERC per year. Facilities with only dry-to-dry machines or dry-to-dry and transfer machines are considered large if they use at least 140 gallons but not more than 2,100 gallons of PERC per year. Facilities with only transfer machines are considered large if they use at least 200 gallons but not more than 1,800 gallons of PERC per year. Facilities that exceed the "large" threshold are not eligible for this Source Category Permit and must obtain a Title V permit.

Effective Date: **Month, Day, Year**

Pursuant to the State of Delaware "**Regulations Governing the Control of Air Pollution**", Regulation No. 1102, Section 2, approval of the Department of Natural Resources and Environmental Control (the Department) is hereby granted for the operation of the dry cleaning machine(s) and associated equipment located at the address listed above, that are described in Table 1 of this permit, in accordance with the application submitted on **Form No. AQM-13SC** dated **November 30, 2005** signed by **add name here**.

Table 1: Permitted Equipment

ID #	Make	Model	Serial Number	Size (lbs)	Date of Manufacture	Date of Installation
Machine 1	we need	to add	this stuff	here based	upon	application

This permit is issued subject to the following conditions (note that anything in this permit included in brackets [] is included for clarification only and should not be considered part of the permit condition for official compliance purposes):

NAME
 Program Manager
 Planning Branch
 (302) 739-9402

 Date

1. General Provisions

- 1.1 Representatives of the Department may, at any reasonable time, inspect this facility.
- 1.2 The owner or operator shall not initiate construction, install, alter, or relocate any equipment or facility or air contaminant control device which will emit or prevent the emission of an air contaminant prior to submitting an application to the Department pursuant to Regulation No. 1102 and receiving approval of such application from the Department; except as exempted in Regulation No. 1102 Section 2.2 of the State of Delaware "**Regulations Governing the Control of Air Pollution.**" [In other words, you must not add any new equipment, modify any existing equipment, or relocate any existing equipment before receiving an approved permit amendment from the Department.]

2. Emission Limitations

- 2.1 No person shall cause or allow the emission of visible air contaminants and/or smoke from a stationary or mobile source, the shade or appearance of which is greater than twenty (20%) percent opacity for an aggregate of more than three (3) minutes in any one (1) hour or more than fifteen (15) minutes in any twenty-four (24) hour period. [In other words, you should not see clearly visible smoke coming from your shop.]
- 2.2 Odors from this source shall not be detectable beyond the plant property line in sufficient quantities such as to cause a condition of air pollution. [In other words, you should not smell dry cleaning solution outside the walls of your shop.]

3. Operational Limitations

- 3.1 The owner or operator shall comply with the following operational limits:
 - 3.1.1 The owner or operator shall route the air-perchloroethylene gas-vapor stream through a refrigerated condenser;
 - 3.1.2 The owner or operator shall close the door of each dry cleaning machine [washer or dryer] immediately after transferring articles to or from the machine, and shall keep the door closed at all times;
 - 3.1.3 The owner or operator of each dry cleaning system shall operate and maintain the system according to the manufacturer's specifications and recommendations;
 - 3.1.4 The owner or operator shall operate the refrigerated condenser 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;
 - 3.1.5 The owner or operator shall operate the refrigerated condenser 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;

- 3.1.6 The owner or operator shall drain all cartridge filters in their housing, or other sealed container, for a minimum of twenty-four (24) hours, or shall treat such filters in an equivalent manner, before removal from the dry cleaning facility;
- 3.1.7 The owner or operator shall store all perchloroethylene and wastes that contain perchloroethylene in solvent tanks or solvent containers with no perceptible leaks;
- 3.1.8 The owner or operator shall inspect the following components biweekly (any fourteen (14) day period of time) for perceptible leaks for each machine covered by this permit when the machine is operating:
 - 3.1.8.1 Hose and pipe connections, fittings, couplings, and valves;
 - 3.1.8.2 Door gaskets and seatings;
 - 3.1.8.3 Filter gaskets and seatings;
 - 3.1.8.4 Pumps;
 - 3.1.8.5 Solvent tanks and containers;
 - 3.1.8.6 Water separators;
 - 3.1.8.7 Muck cookers;
 - 3.1.8.8 Stills;
 - 3.1.8.9 Exhaust dampers;
 - 3.1.8.10 Diverter valves; and
 - 3.1.8.11 Cartridge filter housings.
- 3.1.9 The owner or operator shall repair all perceptible leaks detected under Condition 3.1.8 within twenty-four (24) hours. If repair parts must be ordered, either a written or verbal order for those parts shall be initiated within two (2) working days of detecting a leak. Such repair parts shall be installed within five (5) working days after receipt;
- 3.1.10 The owner or operator shall monitor the temperature of the air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser weekly as described in Condition 4.3; and
- 3.1.11 If the temperature of the air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser does not meet the value described in Condition 4.3, the owner or operator shall adjust or repair

the dry cleaning machine or the refrigerated condenser to meet that value. If repair parts must be ordered, either a written or verbal order for such parts shall be initiated within two (2) working days of detecting the exceeding value. Such repair parts must be installed within five (5) working days after receipt.

- 3.2 At all times, including periods of startup, shutdown, and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating procedures are being used will be based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- 3.3 All structural and mechanical components of the equipment or process covered by this permit shall be maintained in proper operating condition. [In other words, you must maintain your equipment properly. If failure to properly maintain equipment results in a violation of this permit, the Department will still hold you liable for that violation.]

4. Testing and Monitoring Requirements

- 4.1 The Department reserves the right to require that the owner or operator perform emission tests using methods approved in advance by the Department.
- 4.2 When calculating yearly perchloroethylene consumption for the purpose of demonstrating applicability according to Title 7, DE Administrative Code, Regulation 1138, Section 5.0 of the State of Delaware "**Emission Standards for Hazardous Air Pollutants for Source Categories**", [This Regulation specifies the usage thresholds described in the opening paragraph of this permit] the owner or operator shall perform the following calculation on the first day of every month:
 - 4.2.1 Sum the volume of all perchloroethylene purchases made in each of the previous twelve (12) months, as recorded in the log described in Condition 5.2.1 or the DNREC Air Quality Management Section, Engineering & Compliance Branch Dry Cleaning Compliance Calendar;
 - 4.2.2 If no perchloroethylene purchases were made in a given month, then the perchloroethylene consumption for that month is zero (0) gallons; and
 - 4.2.3 The total sum calculated pursuant to this permit condition or the DNREC Air Quality Management Section, Engineering & Compliance Branch Dry Cleaning Compliance Calendar is the yearly perchloroethylene consumption at the facility.
- 4.3 The owner or operator 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°F (7.2°C). The temperature sensor shall be used according to the

manufacturer's instructions and shall be designed to measure a temperature of 45°F (7.2°C) to an accuracy of ±2°F (±1.1°C).

- 4.4 The owner or operator shall monitor the concentration of perchloroethylene vapor in the drum monthly by measuring the perchloroethylene vapor in the drum headspace above the clothing immediately upon opening the drum following a dry cleaning run. Reading shall be <300PPM.

5. Recordkeeping Requirements

- 5.1 The owner or operator shall maintain all records necessary for determining compliance with this permit onsite for five (5) years and shall make these records available to the Department upon written or verbal request.
- 5.2 The following information shall be recorded and maintained in a log as specified below:
 - 5.2.1 The volume of perchloroethylene purchased each month by the dry cleaning facility as recorded from the perchloroethylene purchases; if no perchloroethylene is purchased during a given month then the owner or operator shall enter zero (0) gallons into the log;
 - 5.2.2 The calculations and result of the yearly perchloroethylene consumption determined on the first day of each month as specified in Condition 4.2;
 - 5.2.3 The dates when the dry cleaning system components are inspected for perceptible leaks as specified in Condition 3.1.8;
 - 5.2.4 If any leaks are discovered pursuant to Condition 3.1.8, the name and location of dry cleaning system components where perceptible leaks are detected;
 - 5.2.5 The dates of repair and records of written or verbal orders for repair parts to demonstrate compliance with Conditions 3.1.9 and 3.1.11; and
 - 5.2.6 The dates and results of each temperature sensor monitoring test conducted as required by Conditions 3.1.10 and 4.3.
 - 5.2.7 The dates and results of each drum monitoring test conducted to measure residual perchloroethylene vapor in the drum headspace as required by Condition 4.4.
- 5.3. The owner or operator 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. Reporting Requirements

- 6.1 Any leaks or spills greater than five (5) gallons of spent or fresh perchloroethylene shall be reported to the Department immediately upon discovery by calling the Environmental Emergency Notification and Complaint

number, (800) 662-8802, or from outside the State of Delaware, (302) 739-5072. [In other words, if you leak or spill more than five (5) gallons of perchloroethylene, call the Department as soon as you spill it or notice a leak or spill.]

- 6.2 On or before the 30th day following the installation and start-up of a new or previously used dry cleaning system, the owner or operator shall submit to the Department a completed Initial Notification and Compliance Report Form.
- 6.3 The owner or operator of a dry cleaning facility that exceeds the solvent consumption amounts specified in Title 7, DE Administrative Code, 1138, Section 5.0 of the State of Delaware "**Emission Standards for Hazardous Air Pollutants for Source Categories**" [This Regulation specifies the usage thresholds described in the opening paragraph of this permit] shall notify the Department not later than thirty (30) calendar days after the exceedance occurred. The notification shall provide the following information and shall be signed by a responsible official who shall certify its accuracy:
 - 6.3.1 The name and address of the dry cleaning facility;
 - 6.3.2 A copy of the yearly perchloroethylene consumption records that indicate that there was an exceedance of the applicable amount specified in Title 7, DE Administrative Code, 1138, Section 5.0 of the State of Delaware "**Emission Standards for Hazardous Air Pollutants for Source Categories**" [This Regulation specifies the usage thresholds described in the opening paragraph of this permit];
 - 6.3.3 The circumstances that lead to the exceedance [In other words, explain why you exceeded your limit]; and
 - 6.3.4 A statement that all information contained in the notification is true and accurate.
- 6.4 One (1) original and one (1) copy of all required reports shall be sent to the address below:

Division of Air Quality
655 S. Bay Rd., Suite 5N
Dover, DE 19901

7. Administrative Conditions

- 7.1 This permit shall be made available on the premises.
- 7.2 Failure to comply with the provisions of this permit may be grounds for suspension or revocation.