



CITY OF PHILADELPHIA  
 DEPARTMENT OF PUBLIC HEALTH  
 PUBLIC HEALTH SERVICES  
 AIR MANAGEMENT SERVICES

Air Management Services  
 321 University Avenue  
 Philadelphia PA 19104-4543  
 Phone: (215) 685-7572  
 FAX: (215) 685-7593

**INSTALLATION PERMIT APPLICATION FOR DRY CLEANING AND ANCILLARY EQUIPMENT**

*(Prepare all information completely in print or type in duplicate)  
 See Instructions for definitions*

Facility Name:	Facility Address (Street Address & ZIP Code):	Tax ID No.	
Owner/Operator	Mailing Address	E-Mail:	Telephone:
Contact Person	Mailing Address	E-Mail:	Telephone:

Type of Facility  Co-commercial  Co-residential  Co-sensitive  Stand-alone

**Dry Cleaning Machine Information: (Complete for each dry cleaning machine)**

Make \_\_\_\_\_ Model \_\_\_\_\_ Manufacture Date \_\_\_\_\_ Installation Date \_\_\_\_\_  
 Dry Cleaning Solvent Used  Perc  n-PB  Other (include MSDS) \_\_\_\_\_ Estimated Usage for Machine \_\_\_\_\_ gallons/year  
 Machine Capacity \_\_\_\_\_ lbs clothes/wash Operating Hours \_\_\_\_\_ hrs/day \_\_\_\_\_ days/week \_\_\_\_\_ weeks/yr  
 Generation of Machine \_\_\_\_\_ List any Secondary Control Systems \_\_\_\_\_  
 Dry Cleaning Machine Room Height \_\_\_\_\_ feet Room Length \_\_\_\_\_ feet Room Width \_\_\_\_\_ feet

**Neighboring Area Information:**

Closest distance from an emission process ventilation point to an opening in a residential, commercial, or sensitive facility \_\_\_\_\_ feet  
 Height of nearest opening in a residential, commercial, or sensitive facility \_\_\_\_\_ feet  
 Nearest Building Height \_\_\_\_\_ feet Building Length \_\_\_\_\_ feet Building Width \_\_\_\_\_ feet  
 List all Sensitive Facilities located within 100 feet from the center of the Dry Cleaning Facility. \_\_\_\_\_

**Ventilation Information:**

Vapor Barrier Room  Vapor Capture Room  Local Ventilation, Fume Hood  Window Fan  Natural  Other \_\_\_\_\_  
 Height of exhaust point above ground level \_\_\_\_\_ feet Exhaust Rate \_\_\_\_\_ CFM Exhaust Point Diameter \_\_\_\_\_ inches  
 Exit Temperature \_\_\_\_\_ °F

***I certify that I have the authority to submit this Permit Application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information***

Signature \_\_\_\_\_ Date \_\_\_\_\_ Address \_\_\_\_\_  
 Name & Title \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-Mail \_\_\_\_\_

Application No.	Plant ID	Health District	Census Tract	Fee	Date Received
Approved by		Date	Conformance by		Date

## Instructions

### INSTALLATION PERMIT APPLICATION FOR DRY CLEANING AND ANCILLARY EQUIPMENT

This permit is issued for the construction and temporary operation of the equipment listed in the application until Air Management Services performs a conformance check and issues an air pollution license.

1. **This installation permit application must be submitted to and approved by AMS prior to the installation or modification of dry cleaning or ancillary equipment. For units existing as of **December 13, 2010, the effective date of Air Management Regulation XIV, the installation permit application must be submitted by June 13, 2011.****
2. Complete the application form and submit in duplicate along with the application fee payable to the "City of Philadelphia". The fee is \$645.
3. All dry cleaning and auxiliary equipment must meet the requirements of Air Management Regulation XIV, which you can find at <https://www.phila.gov/documents/air-management-guidelines-and-regulations/> .
4. All information in the application is available to the public. If you wish to keep some information confidential, please submit this information separately, stamped confidential, along with a letter requesting that it be kept confidential and justification for keeping it Confidential. AMS will review the request and determine if it can be kept confidential.
5. All submissions and correspondence should be directed to:  
Source Registration  
Air Management Services  
321 University Avenue  
Philadelphia, PA 19104-4543.  
Phone 215-685-7572

#### 6. Definitions:

*Tax ID No.:* This is the Federal Tax ID or Social Security Number. If the applicant has an Employer Identification number (EIN), this number must be used.

*Perc:* A colorless volatile chlorinated hydrocarbon. Perc is also known as perchloroethylene, tetrachloroethylene, tetrachloroethene, and PCE. The chemical formula for Perc is  $\text{Cl}_2\text{C}:\text{CCl}_2$ . The CAS registry number for Perc is 00127-18-4.

*n-PB:* n-Propyl Bromide. Also called 1-bromopropane,  $\text{C}_3\text{H}_7\text{Br}$ , it is a colorless nonflammable organic solvent used for the cleaning of metal surfaces, removal of soldering residues from electronic circuit boards, and as an adhesive solvent. Its Chemical Abstracts Service Registry Number (CASRN) is 106-94-5.

#### 7. Type of Facility

*Co-commercial Facility:* A facility sharing a common wall, floor or ceiling with another commercial or industrial business/site.

*Co-residential Facility:* A facility sharing a common wall, floor, or ceiling with a residence/residential site.

*Co-sensitive Facility:* A facility sharing a common wall, floor, or ceiling with a sensitive facility.

*Stand-alone Facility:* A facility that is not a Co-commercial, Co-residential, or Co-sensitive Facility.

*Sensitive Facility:* Any educational facility for minors including, but not limited to, schools for kindergarten through twelfth (K-12) grade or preschools or other early childhood education facilities; and health and community care facilities including, but not limited to, hospitals, long-term or child care centers, and family day care homes.

## 8. Dry Cleaning Machine Information

Please complete for each machine at the facility, submitting multiple forms if necessary. For facilities with more than one machine existing at the time Air Management Regulation XIV was passed, only one \$430 application fee is required for the entire facility.

*Manufacture Date:* The date the machine was manufactured (if known).

*Installation Date:* The date the machine was installed at the facility.

*Dry Cleaning Solvent Used:* The solvent used for dry cleaning. If a solvent besides Perc or n-PB is used, check "Other", list the material in the space provided and include a copy of the Material Safety Data Sheet (MSDS) with the application.

*Estimated Usage for Machine:* The estimated gallons per year of solvent used in the machine, accounting for waste residue.

*Machine Capacity:* The maximum pounds of clothes that can be washed in the machine at one time. .

*Operating Hours:* The hours per day, days per week, and weeks per year that the machine operates.

*Generation of Machine:* Third (3<sup>rd</sup>), Fourth (4<sup>th</sup>), or Fifth (5<sup>th</sup>). Machines that do not have a secondary control system are 3<sup>rd</sup> generation machines.

*Fourth (4<sup>th</sup>) Generation Equipment:* A primary closed-loop refrigerated dry cleaning machine that has a "secondary control system" (e.g., closed-loop refrigerated condenser with a drying sensor and an integral carbon adsorber).

*Fifth (5<sup>th</sup>) Generation Equipment:* A dry cleaning machine with all the features of Fourth Generation Equipment, plus a monitor inside the machine drum and an interlocking system to ensure that the concentration is below approximately 300 ppm before the loading door can be opened.

*Secondary Control System:* A device or apparatus that reduces the concentration of Perc in the recirculating air at the end of the drying cycle beyond the level achievable with a Refrigerated Condenser alone. For example, an integral Carbon Adsorber used in fourth generation equipment constitutes a secondary control system. An

"integral" secondary control system is designed and offered as an integral part of a production package with a single make and model of Dry Cleaning Machine and Primary Control System.

*Vapor Barrier:* A material surface or coating that is impermeable to Perc/n-PB or other solvent used.

*Dry Cleaning Machine Room Height, Length, and Width:* The height, length, and width of the room that contains the dry cleaning machine.

## 9. Neighboring Area Information

This information only needs to be completed once per facility.

*Closest distance from an exhaust point to an opening in a residential, commercial, or sensitive facility:* List the closest distance between an exhaust point (stack, vent, window fan, etc.) at the facility and a window, door, or air intake point at a residential, commercial, or sensitive facility. If the distance is greater than 25 feet, you can put ">25 feet".

*Height of closest opening in a residential, commercial, or sensitive facility:* Refers to the opening above.

*Ventilation:* Check which applies to the ventilation for the exhaust point listed above.

*Vapor Barrier Room:* A room which completely surrounds a dry cleaning machine and is constructed of material resistant to diffusion of solvent vapors (e.g. metal foil faced foam insulation sheets).

*Vapor Capture Room:* A room that captures or contains organic vapors in order that they may be directed to an abatement or recovery device

*Local Ventilation, Fume Hood:* A ventilation system with a high capacity fan and physical structures (fume hoods, shrouds, flexible walls - vertical plastic strips) near the machine.

*Window Fan:* High flow rate propeller type fans that are installed vertically in a wall (window-type opening) and exhausts the air horizontally near ground level.

*Natural:* One or more large capacity fans on the roof that either has a rain cap or exhausts horizontally.

*Other:* If the type of ventilation is not listed, please check "Other" and list the type in the space provided.

*Height of nearest opening in a residential, commercial, or sensitive facility:* Refers to the window, door, or air intake point at a residential, commercial, or sensitive facility listed above. List the height of this opening above ground level. If the closest distance from an exhaust point to an opening in a residential, commercial, or sensitive facility at the beginning of this section is greater than 25 feet, this information is not required.

*Nearest Building Height, Building Length, and Building Width:* Refers to the building with the residential, commercial, or sensitive facility listed above. If the closest distance from an exhaust point to an opening in a residential, commercial, or sensitive facility at the beginning of this section is greater than 25 feet, this information is not required.

*List all Sensitive Facilities located within 100 feet from the center of the Dry Cleaning Facility:* List the names of all sensitive facilities with an opening (door, window, or air intake) within 100 feet of the center of the dry cleaning facility, even if it is not the nearest opening in a nearby facility and even if the closest distance from an exhaust point to a nearby facility is greater than 25 feet.

*Height of exhaust point above ground level:* Refers to the exhaust point above. List its height above ground level.

*Exhaust Rate:* The exhaust rate of this exhaust point in cubic feet per minute.

*Exhaust Point Diameter:* The diameter of this exhaust point in inches.

*Exit Temperature:* The temperature of the air from this exhaust point in degrees Fahrenheit. If the exhaust temperature is ambient or room temperature, just put "ambient".