

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - RENEWAL

PERMITTEE

Swan Cleaners, Inc.  
Attn: Merle Hurowitz  
8216 Stony Island Avenue  
Chicago, Illinois 60617

<u>Application No.:</u> 98100051	<u>I.D. No.:</u> 031600GFA
<u>Applicant's Designation:</u>	<u>Date Received:</u> October 22, 2004
<u>Subject:</u> Petroleum Based Dry Cleaner	
<u>Date Issued:</u> July 7, 2005	<u>Expiration Date:</u> July 7, 2010
<u>Location:</u> 8216 Stony Island Avenue, Chicago, 60617	

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of 4 petroleum solvent dryers (including a new 105 # Petro-Miser refrigerated petroleum solvent recovery dryer from Construction Permit 04090026 pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 25 tons/yr of volatile organic material (VOM)). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
- 2a. This permit is issued based on this source not being a participating source in the Emissions Reduction Market System (ERMS), 35 Ill. Adm. Code Part 205, pursuant to 35 Ill. Adm. Code 205.200. This is based on the source's actual VOM emissions during the seasonal allotment period from May 1 through September 30 of each year being less than 10 tons and the source's baseline emissions also being less than 10 tons.
- b. The Permittee shall maintain the following records to allow the confirmation of actual VOM emissions during the seasonal allotment period:
  - i. Records of operating data and other information for each individual emission unit or group of related emission units at the source, as appropriate, to determine actual VOM emissions during the seasonal allotment period;

- ii. Records of the VOM emissions, in tons, during the seasonal allotment period, with supporting calculations, for each individual emission unit or group of related emission units at the source, determined in accordance with the procedures that may be specified in this permit; and
  - iii. Total VOM emissions from the source, in tons, during each seasonal allotment period, which shall be compiled by November 30 of each year.
- c. In the event that the source's VOM emissions during the seasonal allotment period equal or exceed 10 tons, the source shall become a participating source in the ERMS and beginning with the following seasonal allotment period, shall comply with 35 Ill. Adm. Code Part 205, by holding allotment trading units (ATUs) for its VOM emissions during each seasonal allotment period, unless the source obtains exemption from the ERMS by operating with seasonal VOM emissions of no more than 15 tons pursuant to a limitation applied for and established in a Clean Air Act Permit Program (CAAPP) permit or a Federally Enforceable State Operating Permit (FESOP).
- d. Pursuant to 35 Ill. Adm. Code 205.316(a), any participating or new participating source shall not operate without a CAAPP permit or FESOP. Pursuant to 35 Ill. Adm. Code 205.316(a)(2), if a participating or new participating source does not have a CAAPP permit containing ERMS provisions and the source elects to obtain a permit other than a CAAPP permit, the source shall apply for and obtain a FESOP that contains, in addition to other necessary provisions, federally enforceable ERMS provisions, including baseline emissions, allotment for each seasonal allotment period, identification of any units deemed to be insignificant activities for purposes of the ERMS, emissions calculation methodologies, and provisions addressing all other applicable requirements of 35 Ill. Adm. Code Part 205.
- 3a. The new petroleum dry-to-dry cleaning machine constructed after December 14, 1982 is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and JJJ. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. Each affected petroleum solvent dry cleaning dryer that is installed at a petroleum dry cleaning plant after December 14, 1982, shall be a solvent recovery dryer. The solvent recovery dryer(s) shall be properly installed, operated, and maintained (40 CFR 60.622).
- c. Each affected petroleum solvent filter that is installed at a petroleum dry cleaning plant after November 14, 1982, shall be a cartridge filter. Cartridge filters shall be drained in their sealed housings for at least 8 hours prior to their removal (40 CFR 60.622).

- d. The solvent recovery cycle shall continue until the flow rate of recovered solvent from the solvent recovery dryer is no greater than 0.05 liters per minute (40 CFR 60.624).
  - e. At all times the Permittee shall also maintain and operate the petroleum dry cleaning plant, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions, pursuant to the NSPS, 40 CFR 60.11(d).
  - f. The Illinois EPA waives the requirements for a performance test of the new petroleum dry cleaning machine because the owner or operator of the source has demonstrated by other means to the Illinois EPA's satisfaction that the machine is in compliance with the standard [40 CFR 60.68(b)(4)].
4. This permit is issued based on the emissions of volatile organic material from any unit not exceeding 8 lb/hr pursuant to 35 Ill. Adm. Code 218.301.
- 5a. Emissions and operation of each of the 4 petroleum solvent dryers shall not exceed the following limits:

<u>Petroleum Solvent Usage</u> <u>(Gal/Hr)</u>	<u>(Gal/Mo)</u>	<u>(Gal/Yr)</u>	<u>Hours of</u> <u>Operation</u> <u>(Hr/Yr)</u>	<u>VOM Emissions</u> <u>(Lb/Hr)</u>	<u>(Tons/Mo)</u>	<u>(Tons/Yr)</u>
1.25	188	1,875	1,872	6.5	0.6	6.02

These limits are based on the maximum production rate. Emissions were determined by material balance considering a solvent density of 6.43 lb/gal.

Solvent usage shall be determined from the following equation:

$$U = V - W \times C/100$$

Where:

U - Solvent usage (gal)

V - Virgin solvent added to the process (gal)

W - Certified amount of waste shipped off for recycling (gal)

C - Certified VOM content of waste solvent (%)

- b. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.
6. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to

minimize odors, including but not limited to, change in raw material or installation of controls, in order to eliminate the nuisance.

7. The Permittee shall maintain records of the following items:
  - a. Petroleum solvent purchased (gal/mo and gal/yr);
  - b. Petroleum solvent shipped for recycling (gal/mo and gal/yr);
  - c. MSDS of petroleum solvent(s);
  - d. VOM emissions calculations (ton/mo and ton/yr); and
  - e. Operating hours of each dryer (hr/mo and hr/yr).
8. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
9. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
10. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
9511 West Harrison  
Des Plaines, Illinois 60016

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11. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: Use of solvent; VOM content of solvent and; VOM emissions.

Please note that the new petroleum dry cleaning machine from Construction Permit 04090026 has been added to this permit.

If you have any questions on this, please call Randy Solomon at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

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cc: Illinois EPA, FOS Region 1  
Illinois EPA, Compliance Section  
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the petroleum solvent dryers facility operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. This is using 7,500 gallons of solvent a year. The resulting maximum emissions are below the levels, e.g., 25 tons/yr of VOM at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

<u>Emission Units</u>	<u>VOM (Tons/Yr)</u>
4 Petroleum Solvent Dryers	24.1

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