

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - NSPS SOURCE - RENEWAL

PERMITTEE

Draw Drape Cleaners
Attn: Mr. Richard Zell
2235-39 West Roscoe Street
Chicago, Illinois 60618

<u>Application No.:</u> 95100005	<u>I.D. No.:</u> 031600EAC
<u>Applicant's Designation:</u> DRY CLEANING	<u>Date Received:</u> July 24, 2002
<u>Subject:</u> Petroleum Solvent Dry Cleaner	
<u>Date Issued:</u> February 13, 2003	<u>Expiration Date:</u> February 13, 2008
<u>Location:</u> 2235-39 West Roscoe Street, Chicago, 60618	

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of two petroleum solvent dry cleaning machines, two drying rooms, three gas-fired boilers, one apartment heater and 2 storage tanks 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 emission of air pollutants from the source to less than major source thresholds (i.e., 25 tons/year for VOM, 10 tons/year of a single HAP, 25 tons/year for totaled HAP) as further described in Attachment A. As a result, the source is excluded from requirements to obtain a Clean Air Act 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 permit(s) for this location.
- 2a. The petroleum 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 machine 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 December 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 as it has been verified during the most recent performance test (40 CFR 60.624).
 - e. The Permittee shall maintain the records of the performance test required under Section 60.624.
 - f. 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 practice for minimizing emissions, pursuant to the NSPS, 40 CFR 60.11(d).
3. This permit is issued based on the facility not being subject to 35 Ill. Adm. Code 218, Subpart Z: Dry Cleaners, due to the federally enforceable conditions of this permit limiting source's potential to emit VOM to less than applicability threshold of 25 tons/year established by 35 Ill. Adm. Code 218.611(b).
- 4a. Emissions and operation of the two petroleum solvent dry cleaning machines, two drying rooms and two storage tanks, including clean-up operations, shall not exceed the following limits:

<u>Petroleum Solvent Usage</u>		<u>VOM Emissions</u>	
<u>(Gal/Mo)</u>	<u>(Gal/Yr)</u>	<u>(Ton/Mo)</u>	<u>(Ton/Yr)</u>
622	6,220	2	20

These limits define the potential emissions of VOM and are based on the maximum operating rate of the plant. 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.
5. This permit is issued based on emissions of VOM not exceeding 8 lb/hour from each of the two dryers and two drying rooms, pursuant to 35 Ill.

Adm. Code 218.301. For this reason, petroleum solvent usage and emissions from each shall not exceed 8 pounds for any given hour.

6. Emissions and operation of the three boilers and apartment heater shall not exceed the following limits:

Natural Gas Usage		NO _x		CO		VOM	
<u>(therms/Mo)</u>	<u>(therms/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>
19,500	195,000	0.1	1.0	0.08	0.8	0.01	0.1

These limits define the maximum emissions from natural gas combustion and are based on standard AP-42 emission factors. Compliance shall be determined from a running total of the previous 12 months of data.

7. No person shall cause or allow the emission of carbon monoxide into the atmosphere from each fuel combustion emission source to exceed 200 ppm corrected to 50% excess air in accordance with 35 Ill. Adm. Code 216.121.
8. Natural gas shall be the only fuel fired in the above referenced fuel combustion emission sources.
9. The Permittee shall notify the Illinois EPA prior to any change in the type of fuel used at the source.
10. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a Clean Air Act Permit Program permit from the Illinois EPA.
11. The petroleum dry cleaning machines are exempt from Title 35, Subpart Z for dry cleaners pursuant to 35 Ill. Adm. Code 218.611 for petroleum dry cleaning facility with emissions of less than 25 tons per year of VOM.
12. The petroleum dry cleaning machine constructed before December 14, 1982 is also exempt from the New Source Performance Standards (NSPS) for Petroleum Dry Cleaning, Subpart JJJ pursuant to 40 CFR 60.620b.
13. The Permittee shall maintain records of the following items:
- a. Petroleum solvent added to each of 2 dryers and 2 drying rooms (gal/hr, gal/mo and gal/yr).
 - b. Petroleum solvent shipped for recycling from each of 2 dryers and 2 drying rooms (gal/hr, gal/mo and gal/yr).

- c. Density of solvent and amount used in each of 2 dryers and 2 drying rooms (lb/gal, lb/hr, tons/mo and tons/yr).
 - d. Natural gas consumption (scf/mo and scf/yr).
14. 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 and 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 request for records during the course of a source inspection.
15. 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.
16. 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

17. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year:
- a. Petroleum solvent added to each of 2 dryers and 2 drying rooms (gal/hr, gal/mo and gal/yr).
 - b. Petroleum solvent shipped for recycling from each of 2 dryers and 2 drying rooms (gal/hr, gal/mo and gal/yr).
 - c. Density of solvent and amount used in each of 2 dryers and 2 drying rooms (lb/gal, lb/hr, tons/mo and tons/yr).

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d. Natural gas consumption (scf/mo and scf/yr).

If there have been no exceedances during the prior calendar year, the Annual Emission Report shall include a statement to that effect.

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

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

DES:RBS:jar

cc: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
USEPA

Attachment A - Emissions Summary

This attachment provides a summary of the maximum emissions from the petroleum solvent dry cleaning plant 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 plant will use 6,220 gal/yr of petroleum solvent and will consume 195,000 therms/yr of natural gas. The resulting maximum emissions are below the levels, e.g., 25 ton/yr of VOM, 25 ton/yr of combined HAPs and 10 ton/yr of each single HAP at which this source would be considered a major source for purposes of the Clean Air Act Permit Program.

- 1a. Two petroleum solvent dry cleaning machines, 2 drying rooms and 2 storage tanks:

<u>Solvent Usage</u> (Gal/Year)	<u>VOM Emissions</u> (Ton/Year)
6,220	20

- b. Three boilers and apartment heater:

<u>Natural Gas Consumption</u>		<u>E M I S S I O N S</u>		
<u>(Therms/Mo)</u>	<u>(Therms/Yr)</u>	<u>NO_x</u> <u>(T/Yr)</u>	<u>CO</u> <u>(T/Yr)</u>	<u>VOM</u> <u>(T/Yr)</u>
19,500	195,000	1.0	0.8	0.1

2. The emissions of HAPs as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a Clean Air Act Permit Program permit from the Illinois EPA.

3. Emissions and operation of the three boilers and apartment heater shall not exceed the following limits:

<u>Natural Gas Usage</u>		<u>NO_x</u>		<u>CO</u>		<u>VOM</u>	
<u>(therms/Mo)</u>	<u>(therms/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>	<u>(T/Mo)</u>	<u>(T/Yr)</u>
19,500	195,000	0.1	1.0	0.08	0.8	0.01	0.1

These limits define the maximum emissions from natural gas combustion and are based on standard AP-42 emission factors. Compliance shall be determined from a running total of the previous 12 months of data.