

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT  
RENEWAL

PERMITTEE

Collegiate Cap and Gown  
Attn: Gary Lovingfoss  
1000 North Market Street  
Champaign, Illinois 61820

Application No.: 73010578                      I.D. No.: 019010AAS  
Applicant's Designation: EPA PERMITS              Date Received: September 14, 2000  
Subject: Cap and Gown Cleaning  
Date Issued: April 18, 2001                      Expiration Date: April 18, 2006  
Location: 1000 North Market Street, Champaign

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of equipment listed in Attachment B 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., criteria pollutants less than 100 tons per year, individual HAP less than 10 tons per year). 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.
2. Emissions and operation of all petroleum dry cleaning operations shall not exceed the following limits:

| <u>Equipment Area</u> | <u>Usage<br/>(Gal/Yr)</u> | <u>VOM Content<br/>(Lb/Gal)</u> | <u>VOM Emissions<br/>(Lb/Hr)</u> | <u>(Tons/Yr)</u> |
|-----------------------|---------------------------|---------------------------------|----------------------------------|------------------|
| Gown Cleaning         | 25,505                    | 6.43                            | 82.0                             | 82.0             |
| Cap Cleaning          | 3,956                     | 6.32                            | 12.5                             | 12.5             |
| Misc. Cleaning        | 157                       | 6.38                            | 0.5                              | 0.5              |
|                       |                           |                                 | Total:                           | 95.0             |

These limits are based on the material balance and the maximum VOM contents. Compliance with annual limits shall be determined from a running total of 12 months of data.

- 3a. The A boiler is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and Dc. The Illinois EPA is administering these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. The Permittee shall at all times, to the extent practicable, maintain and operate the aforementioned emission sources in a manner consistent with good air pollution control practice for minimizing emissions.
- 4a. Operation of the A boiler shall not exceed the following limits:

|                     |                  |                                |
|---------------------|------------------|--------------------------------|
| Natural Gas Usage:  | 46,000 scf/hour  | 280 x 10 <sup>6</sup> scf/year |
| #1 and #2 Fuel Oil: | Emergency Backup | 3,000 gallons/year             |
- b. #1 and #2 Fuel Oil Maximum Sulfur Content by Weight Pursuant to 35 Ill. Adm. Code 214.122(b)(1): 0.28 Percent by Weight or (.000015) x (Gross Heating Value of oil in Btu/pound)
- c. Only natural gas and #1 and #2 fuel oils shall be used in the boilers.
- d. The Illinois EPA shall be allowed to sample all fuels stored at the source.
5. The emissions of Hazardous Air Pollutants (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 in rule which would require the Permittee to obtain a CAAPP 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 CAAPP permit from the Illinois EPA.
- 6a. The Permittee shall maintain monthly records of the following items:
  - i. The type, volume, and VOM content of each dry cleaning solvent used per month and the total of VOM emission (lbs/month) and (lbs/year).
  - ii. Natural gas usage: (10<sup>6</sup> scf/month and 10<sup>6</sup> scf/year)
  - iii. #1 and #2 fuel oil usage: (gal/month and gal/year)
  - iv. VOM, SO<sub>2</sub> and NO<sub>x</sub> emissions as calculated by AP-42 emission factors and the actual natural gas and #1 and #2 fuel oil usage (lb/month) and (lb/year).
- b. 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.

7. 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.
8. 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  
2009 Mall Street  
Collinsville, Illinois 62234

9. This permit is issued based on negligible emissions of volatile organic material (VOM) from the fuel storage tanks. For this purpose emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year.
10. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: Natural gas usage, #1 and #2 fuel oil usage, sulfur dioxide and nitrogen oxide emissions, dry cleaning solvent usage, solvent VOM content, and solvent VOM emissions from the prior calendar year. 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, please call John Blazis at 217/782-2113.

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

DES:JPB:psj

cc: Illinois EPA, FOS Region 3  
Illinois EPA, Compliance Section  
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the source 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. The resulting maximum emissions are well below the levels, e.g., 100 tons per year 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.

1. VOM emissions from the petroleum based dry cleaning units:

| <u>Equipment Area</u> | <u>Usage<br/>(Gal/Yr)</u> | <u>VOM Content<br/>(Lb/Gal)</u> | <u>VOM Emissions<br/>(Lb/Hr)</u> | <u>VOM Emissions<br/>(Tons/Yr)</u> |
|-----------------------|---------------------------|---------------------------------|----------------------------------|------------------------------------|
| Gown Cleaning         | 25,505                    | 6.43                            | 82.0                             | 82.0                               |
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|                       |                           |                                 | Total                            | 95.0                               |

2. Natural gas fired and #1 and #2 fuel oil fired fuel combustion emissions of nitrogen oxide (NO<sub>x</sub>), carbon monoxide (CO), volatile organic material (VOM), sulfur dioxide (SO<sub>2</sub>), and particulate matter (PM) from the boiler:

Natural Gas for Boilers:

| <u>Pollutant</u> | <u>Fuel Usage<br/>(10<sup>6</sup> scf/Yr)</u> | <u>Emission Factor<br/>(Lb/10<sup>6</sup> scf)</u> | <u>Emissions<br/>(Tons/Year)</u> |
|------------------|---|--|----------------------------------|
| NO <sub>x</sub>  | 280   | 100  | 14.0                             |
| CO               | 280   | 84   | 11.8                             |
| PM               | 280   | 7.6  | 1.06                             |
| VOM              | 280   | 5.5  | 0.77                             |
| SO <sub>2</sub>  | 280   | 0.60   | 0.084                            |

#1 and #2 Fuel Oil for Boilers:

| <u>Pollutant</u> | <u>Fuel Usage<br/>(Gallon/Year)</u> | <u>Emission Factor<br/>(Lb/10<sup>3</sup> Gallon)</u> | <u>Emissions<br/>(Tons/Year)</u> |
|------------------|-------------------------------------|---|----------------------------------|
| NO <sub>x</sub>  | 3,000                               | 20.0  | 0.03                             |
| CO               | 3,000                               | 5.0   | 0.008                            |
| VOM              | 3,000                               | 0.34  | 0.0005                           |
| SO <sub>2</sub>  | 3,000                               | 142 x 0.28  | 0.06                             |
| PM               | 3,000                               | 2.0   | 0.003                            |

This table defines the type of fuel fired and standard emission factors at the maximum annual fuel usage indicated in the permit application.

Attachment B

| <u>Equipment</u>          | <u>Manufacturer</u>      | <u>Number of Units</u> |                     |
|---------------------------|--------------------------|------------------------|---------------------|
| Gown Washer               | Washex                   | 1                      |                     |
| Gown Dryer                | ACECO                    | 3                      | Backup-Hoyt/Dynamic |
| Gown Dryer                | Dynamic                  | 1                      |                     |
| Gown Dryer                | Hoyt                     | 5                      |                     |
| Cap Washer                | Milnor                   | 1                      |                     |
| Cap Extractor             | Milnor                   | 1                      |                     |
| Cap Extractor             | Hammond                  | 3                      |                     |
| Cap Washer                | Hansvedt                 | 1                      |                     |
| Cap Dryer                 | Rockwell-Ross            | 3                      |                     |
| Boiler A                  | Abco                     | 1                      |                     |
| Boiler B and C            | Vapor                    | 2                      | Backups to Boiler A |
| Fuel Storage Tank         | 25,000 gallon            | 2                      |                     |
| Fuel Storage Tank         | 15,000 gallon            | 1                      |                     |
| 360 Solvent Tank          | 3,000 gallon             | 2                      |                     |
| Mix/Recycle/Hold<br>Tanks | Less than 1001<br>Gallon | Several                |                     |

JPB:psj