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Facility Name: **Brown Cleaners**

Application Number: **02-2316**

Date: **December 3, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as

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an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement

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of operation.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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Facility Name: **Brown Cleaners**Application Number: **02-2316**Date: **December 3, 1998**AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Brown Cleaners** located in **Wayne** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
D001	Hoyt model Pet-50 refrigerated reclaimer dryer unit using petroleum solvent	Use of a solvent recovery dryer equipped with a refrigerated condenser	3745-31-05 3745-21-09 (BB)	2000 gallons of petroleum solvent usage per year 6.6 tons of volatile organic compounds per year

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Volatile organic compounds	6.6 TPY

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REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to ***Ohio EPA, Northeast District Office, 2110 E. Aurora Road, Twinsburg, Ohio 44087.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the *** EPA, Northeast District Office, 2110 E. Aurora Road, Twinsburg, Ohio 44087.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution

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sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Source Description

The emissions unit covered by this permit to install is a 50 pound capacity Hoyt Model PET-50 refrigerated reclaimer dryer unit using petroleum solvent(D001).

B. Operational Restrictions

1. The dryer shall comply with the following requirement:
 - a. The dryer is a solvent recovery dryer which is operated in a manner such that the dryer remains closed and the solvent recovery phase continues until a final recovered solvent flow rate of 1.7 ounces per minute (fifty milliliters per minute) or less is attained.
2. Any solvent filter for petroleum solvent shall comply with one of the following requirements:
 - a. the solvent filter is a cartridge filter which is drained for at least eight hours in its sealed housing before removal of any cartridge; or
 - b. the filtration waste contains, before disposal and exposure to the ambient air, no more than 1.0

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pound of VOC per one hundred pounds dry weight of articles cleaned, as determined under paragraph (M) of rule 3745-21-10 of the Administrative Code.

3. Any bucket or barrel which contains petroleum solvent or petroleum solvent-laden waste shall be covered to minimize solvent evaporation.
4. The annual petroleum solvent usage shall not exceed 2000 gallons.

C. Monitoring and/or Recordkeeping Requirements

1. The consumption of petroleum solvent shall be recorded on a monthly basis to ensure compliance with the 2000 gallons yearly limit.
2. The annual consumption is the total of the monthly usage.
3. Any equipment associated with the use of petroleum solvent shall be visually inspected weekly to identify any liquid leaks of petroleum solvent.
4. Any liquid or vapor leak of petroleum solvent shall be repaired within fifteen days after identifying the source of the leak, unless a necessary repair part is not on hand. If a repair part is not on hand, it shall be ordered within three working days after identifying the source of the leak. The leak shall be repaired within fifteen days following the delivery of the necessary repair part.

D. Reporting Requirements

1. The permittee shall submit the total annual petroleum solvent consumption report. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the 2000 gallons per year consumption limit in this permit shall be verified by the record

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keeping in Section C of this permit.

2. The permittee shall perform a test, in accordance with paragraph (N) of rule 3745-21-10 of the Administrative Code, to demonstrate the minimum length of time for operating the recovery cycle of the dryer. The following are those requirements from OAC rule 3745-21-10 (N):
 - a. this method is applicable to determining the length of time for operating the solvent recovery cycle of a solvent recovery dryer at a petroleum dry cleaning facility in order to assure that the flow rate of recovered petroleum solvent at the termination of solvent recovery cycle is no greater than fifty milliliters per minute;
 - b. the dryer shall be tested under normal operating conditions for a duration of no less than two weeks during which no less than one-half of the dryer loads shall be monitored for their final recovered solvent flow rate; and,
 - c. the suggested point for measuring the flow rate of recovered solvent is from the outlet of the solvent-water separator. Near the end of the recovery cycle, the entire flow of recovered solvent is diverted to a graduated cylinder. As the recovered solvent collects in the graduated cylinder, the elapsed time is monitored and recorded in periods greater than or equal to one minute. At the same time, the volume of solvent in the graduated cylinder is monitored and recorded to determine the volume of recovered solvent that is collected during each time period. The recovered solvent flow rate is calculated by dividing the volume of solvent collected per period by the length of time elapsed during the period and converting the result with appropriate factors into units of milliliters per minute. The recovery cycle and the monitoring procedure is continued until the flow rate of solvent is less than or equal to fifty milliliters per minute. The date, the type of articles cleaned, and the total length of the recovery cycle shall be recorded for each dryer load being monitored .
3. Emissions Limit: 6.6 tons per year VOC
Compliance Method: Compliance with VOC emissions limit shall be determined by multiplying the petroleum solvent VOC content (6.6 lbs/gallon) by the annual

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gallons of petroleum solvent consumed.