

1

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

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

2

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

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.

3

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

### **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 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.

4

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Stearns Technical Textiles Company** located in **Hamilton** 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 &amp; OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
P015 (Mod)	Nonwoven roll goods line with 13.5 MMBtu/Hr natural gas fired heater.	Water based coatings, emission limits, the use of natural gas as a fuel for the heater and compliance with the Ohio EPA Air Toxics Policy	3745-31-05 3745-17-07 (A) 3745-17-10 (B) * 3745-21-07 (G) 40 CFR Part 60 Subpart Dc	See Additional Special Term and Condition A.1 See Additional Special Term and Condition A.2 Less Stringent Exempt See Additional Special Term and Condition C.2

Facility Name: **Stearns Technical Textiles Company**  
 Application Number: **14-4650**  
 Date: **December 3, 1998**

- \* The emission limitation established by this rule is less stringent than those established by OAC rule 3745-31-05 (BAT).

SUMMARY  
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Organic Compound	5.77
PM	.37 *
SO <sub>2</sub>	.04
NO <sub>x</sub>	8.26
CO	2.07
PM <sub>10</sub>	.37 *
Ammonia	15.5

\* Assume PM = PM<sub>10</sub>

**REPORTING REQUIREMENTS**

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, Ohio 45210.**

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

**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.

**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. Applicable Emissions Limitations and/or Control Requirements**

1. The following emissions from emissions unit P015 shall not be exceeded:

<u>Pollutant</u>	<u>lbs/hr</u>	<u>TPY</u>
Ammonia	3.5	15.5
OC	17.1	5.77*

<u>Pollutant</u>	<u>lb/MMBtu</u>	<u>TPY</u>
PM/PM <sub>10</sub>	.0062	.37
SO <sub>2</sub>	.0006	.04
NO <sub>x</sub>	.14	8.26
CO	.035	2.07
OC	.0058	see above

All of the lbs/hour and lb/MMBtu emission limitations are based on the maximum operating capacity of the line. The TPY emission limits for Ammonia, SO<sub>2</sub>, NO<sub>x</sub>,

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

PM, and CO are also based on the maximum operating capacity of the line. Therefore, no daily record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits.

\*The TPY emission limitation for OC is based upon a rolling, 12-month summation.

2. Visible particulate emissions from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

#### **B. Operational Restrictions**

1. The use of photochemically reactive materials as defined in Ohio Administrative Code rule 3745-21-01(C) (5) is prohibited.

#### **C. Record Keeping Requirements**

1. The permittee shall collect and record the following information each month for emissions unit P015:
  - a. the company identification for each organic material employed;
  - b. the number of pounds of each organic material employed;
  - c. the percent by weight of OC for each organic material, as applied;
  - d. documentation on whether or not each organic material is a photochemically reactive material as defined in Ohio Administrative Code (OAC) rule 3745-21-01(C) (5);
  - e. the total monthly organic compound emission rate for all materials employed (line b X line c for each material employed); and,

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

- f. the updated rolling, 12-month summation for organic compound emissions (the OC emissions for the current calendar month in tons, added to the OC emissions for the previous eleven calendar months, in tons).
2. The permittee shall maintain daily records which list the cubic feet of natural gas burned in the oven.
3. Each record of any monitoring data, testing data and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **D. Reporting**

1. The permittee shall submit deviation (excursion) reports which list any exceedance of the rolling, 12-month organic compound emission limitation listed in A.1.
2. The permittee shall submit an annual report which specify the total OC emissions from emissions unit P015. This report shall be submitted by January 31 of each year.
3. The permittee shall submit required reports in the following manner:
  - a. reports of any required monitoring and/or recordkeeping information shall be submitted to the Hamilton County Dept. of Env. Services;
  - b. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

be submitted to the Hamilton County Dept. of Env. Services. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 30, April 30, July 30, and October 30 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

**E. Testing/Compliance Methods**

1. Compliance with the rolling, 12-month summation for OC emissions listed in A.1. shall be demonstrated by the record keeping contained in C.1.
2. Compliance with the visible emission limitation listed in A.2 shall be demonstrated by methods outlined in OAC rule 3745-17-03(B) (1).
3. Formulation data or USEPA method 24 (for coatings) or 24A (for flexographic and rotogravure printing inks and related coatings) shall be used to determine the OC contents of the inks and coatings.

**F. Miscellaneous**

1. This permit allows the use of the coatings and cleanup materials specified by the permittee in the application for PTI number 14-4650. In conjunction with the best available technology requirements of OAC rule 3745-31-05, the organic compound emission limitation(s) specified in this permit was (were) established in accordance with the Ohio EPA's "Air Toxics Policy" and is (are) based on both the coating and cleanup material formulation data and the design parameters of the emissions unit's exhaust system, as specified in the application. Compliance with the Ohio EPA's "Air Toxics Policy" was demonstrated for each pollutant based on the ISCST2 model and a comparison of the predicted 1 hour maximum ground-level concentration to the MAGLC. The following summarizes the results of the modeling for

Facility Name: **Stearns Technical Textiles Company**

Application Number: **14-4650**

Date: **December 3, 1998**

each pollutant:

Pollutant: Formaldehyde

TLV (ug/m3): 370

Maximum Hourly Emission Rate (lbs/hr): 0.68

Predicted 1 Hour Maximum Ground-Level Concentration at the Fence line (ug/m3): 4.8

Maximum Acceptable Ground-Level Concentration (MAGLC) (ug/m3): 8.8

Any of the following changes may be deemed a "modification" to the emissions unit and, as such, prior notification to and approval from the Hamilton County Department of Environmental Services are required, including the possible issuance of modifications to PTI number 14-4650 and the operating permit:

- a. any changes in the composition of the coatings or cleanup materials, or the use of new coatings or cleanup materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
  - b. any change to the emissions unit or its exhaust parameters (e.g., increased emission rate, reduction of exhaust gas flow rate, and decreased stack height) that would result in an exceedance of any MAGLC specified in the above table; and,
  - c. any change to the emissions unit or its method of operation that would either require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01.
2. The terms and conditions of this PTI supersedes those established under PTI 14-3829.