


**BUREAU OF AIR MANAGEMENT  
NEW SOURCE REVIEW PERMIT  
TO CONSTRUCT AND OPERATE A STATIONARY SOURCE**

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-3a of the Regulations of Connecticut State Agencies (RCSA).

<b>Owner/Operator</b>	Ahlstrom Nonwovens LLC
<b>Address</b>	11 Canal Bank Road, Windsor Locks, CT 06096
<b>Equipment Location</b>	11 Canal Bank Road, Windsor Locks, CT 06096
<b>Equipment Description</b>	Paper Manufacturing Machine No. 12
<b>Town-Permit Numbers</b>	213-0018
<b>Premises Number</b>	001
<b>Stack Number</b>	288, 289, 290, 297, 332
<b>Modification Issue Date</b>	January 21, 2026
<b>Prior Permit Issue Date</b>	December 19, 1997 (Original)
<b>Expiration Date</b>	None

for



Katherine S. Dykes  
Commissioner

January 21, 2026

Date

This permit specifies necessary terms and conditions for the operation of this equipment to comply with state and federal air quality standards. The Permittee shall at all times comply with the terms and conditions stated herein.

## **PART I. DESIGN SPECIFICATIONS**

### **A. Equipment Design Specifications**

1. Paper Machine No. 12
  - i. Make and Model: 412 Voith 026 134
  - ii. Maximum Capacity: 7,200 tons/year
2. Dryers:
  - i. Fuel Type: Natural Gas
  - ii. Maximum Firing Rate for Spooner Oven: 6,796 cf/hr and 7 MMBtu/hr
  - iii. Maximum Firing Rate for First Dryer: 14,738 cf/hr and 15.18 MMBtu/hr
  - iv. Maximum Firing Rate for Second Dryer: 5,825 cf/hr and 6 MMBtu/hr

### **B. Stack Parameters**

Stack Designation	Maximum Exhaust Gas Flow Rate (ACFM)	Minimum Distance to Nearest Property Line (ft)	Minimum Stack Height (feet above grade)
288 (Second dryer fuel burning and process emissions)	22,000	314	50.5
289 (Process emissions only)	16,665	310	50.0
290 (First dryer fuel burning and process emissions)	30,268	314	64.5
297 (Process emissions only)	20,745	305	52.2
332 (Spooner oven fuel burning and process emissions)	10,546	310	51.0

## **PART II. OPERATIONAL CONDITIONS**

### **A. Equipment**

1. Paper Machine No. 12
  - i. Maximum VOC Content per Gallon of Coating, as applied, excluding water and exempt VOC: 2.9 lb/gal

## 2. Dryers

- i. Maximum Allowable Firing Rate for Spooner Oven: 5,196 cf/hr and 5.35 MMBtu/hr
- ii. Maximum Allowable Firing Rate for First Dryer: 9,920 cf/hr and 10.22 MMBtu/hr
- iii. Firing Rate for Second Dryer: 2,594 cf/hr and 2.67 MMBtu/hr
- iv. Maximum Annual Fuel Usage: 155,139,600 cf per 12 consecutive months for both dryers and Spooner oven (based on 8,760 hours of operation per 12 consecutive months)

**B.** The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor beyond the property boundary of the premises that constitutes a nuisance as set forth in RCSA Section 22a-174-23. [STATE ONLY REQUIREMENT]

**C.** The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations.

### PART III. ALLOWABLE EMISSION LIMITS

The Permittee shall not cause or allow this equipment to exceed the emission limits stated herein at any time.

#### A. Emissions from Fuel Burning

Pollutant	lb/hr	ppmvd corrected to 12% CO <sub>2</sub>	TPY
PM	0.13		0.56
PM <sub>10</sub>	0.13		0.56
PM <sub>2.5</sub>	0.13		0.56
SO <sub>2</sub>	0.01		0.05
NO <sub>x</sub>	1.79	180	7.83
CO	1.50		6.55
VOC	0.09		0.40
GHG			9,455

#### B. Process Emissions

Pollutant	lbs/month	TPY
VOC	3,650	5.5

#### C. Hazardous Air Pollutants [STATE ONLY REQUIREMENT]

This equipment shall not cause an exceedance of the Maximum Allowable Stack Concentration (MASC) for any hazardous air pollutant (HAP) emitted and listed in RCSA Section 22a-174-29.

#### D. Opacity

This equipment shall not exceed 10% opacity during any six minute block average as measured by 40 CFR 60, Appendix A, Reference Method 9.

- E.** Demonstration of compliance with the above emission limits may be met by calculating the emission rates using emission factors from the following sources:
- Fuel Burning (Natural Gas): NO<sub>x</sub>: last approved stack testing.
  - Fuel Burning (Natural Gas): PM, PM<sub>10</sub>, PM<sub>2.5</sub>, VOC, SO<sub>2</sub>, CO: AP42, 5<sup>th</sup> Edition, Table Nos. 1.4-1 and 1.4-2
  - Process: VOCs and HAPs: material balance of VOCs and HAPs in coatings/additives used
- F.** The commissioner may require other means (e.g. stack testing) to demonstrate compliance with the above emission limits, as allowed by state or federal statute, law or regulation.

#### **PART IV. MONITORING, RECORD KEEPING AND REPORTING REQUIREMENTS**

##### **A. Monitoring Requirements**

1. The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter.
2. The Permittee shall monitor the amount of VOC containing coating/additive used for production in Paper Machine No. 12.

##### **B. Record Keeping Requirements**

1. The Permittee shall make and keep records of all materials used for production in Paper Machine No. 12. The Permittee shall maintain records of the following to determine VOC emissions on a monthly and yearly basis:
  - a. Description of product,
  - b. Date batch was run,
  - c. Length of each batch,
  - d. Feed rates of materials in each run,
  - e. VOC content by weight (lb VOC/gal) of coatings or additives used; and
  - f. Cumulative record of year-to-date material usage and VOC emissions.
2. The Permittee shall make and keep records of calculations verifying compliance with RCSA §22a-174-29.
3. The Permittee shall keep records of monthly and consecutive 12 month fuel consumption. The consecutive 12 month fuel consumption shall be determined by adding the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month.
4. The Permittee shall calculate and record the monthly and consecutive 12 month PM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, VOC, and CO emissions from fuel combustion in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.

5. The Permittee shall calculate and record the monthly and consecutive 12 month VOC process emissions in units of tons. The consecutive 12 month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations within 30 days of the end of the previous month.
6. The Permittee shall keep material safety data sheets (MSDS) or technical data sheets (TDS) or Safety Data Sheets (SDS) for each chemical or solvent used. Such information shall include the quantity and type of each hazardous air pollutant contained in the paint or solvent. For paperwork reduction, these sheets may be kept on computer file in electronic form, access to above paperwork requirement may also be allowed via internet on-demand.
7. The Permittee shall keep all records required by this permit for a period of no less than five years and shall submit such records to the commissioner upon request.

### **C. Reporting Requirements**

1. The Permittee shall notify the commissioner in writing of any exceedance or deviation of an emissions limitation or operating parameter, and shall identify the cause or likely cause of such exceedances or deviations, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:
  - a. For any hazardous air pollutant, no later than 24 hours after such exceedance commenced; and
  - b. For any other regulated air pollutant or operating parameter, no later than ten days after such exceedance commenced.

## **PART V. STACK EMISSION TEST REQUIREMENTS**

- A. Stack emission testing shall be performed in accordance with the Emission Test Guidelines available on the DEEP website at [www.ct.gov/deep/stacktesting](http://www.ct.gov/deep/stacktesting).
- B. Stack testing shall be required for the following pollutant: NO<sub>x</sub>
- C. Recurrent stack testing for NO<sub>x</sub> shall be conducted within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier.
- D. The Permittee shall submit test results within 60 days after completion of testing.
- E. Stack test results shall be reported in units of lb/hr and lb/MMBtu.

## **PART VI. SPECIAL REQUIREMENTS**

### **A. Premises Emissions Summary**

1. On January 1<sup>st</sup> of each calendar year, if the potential emissions of NO<sub>x</sub> or VOC from the premises are equal to or greater than 25 tons per year per pollutant, then for such pollutant(s), the Permittee shall:
  - a. Monitor NO<sub>x</sub> and/or VOC emissions, as applicable, from the premises for such calendar year.

- b. Calculate and record annual NO<sub>x</sub> and/or VOC emissions, as applicable, from the premises for such calendar year, in units of tons. The Permittee shall make these calculations on or before February 1<sup>st</sup> of the following year with respect to the previous calendar year. Such records shall include a sample calculation(s).
  - c. If actual NO<sub>x</sub> and/or VOC emissions, as applicable, from the premises are equal to or greater than 25 tons for such calendar year, the Permittee shall submit to the commissioner, on or before March 1<sup>st</sup> of the following year, an annual emissions summary with respect to the premises for the previous calendar year. Such summary shall be submitted on forms prescribed or provided by the commissioner.
- 2. A Permittee is exempt from Part VI.A.1 requirements of this permit if, on January 1<sup>st</sup> of the subject year, the premises was operating in accordance with any of the following:
  - a. A valid Title V permit issued pursuant to RCSA section 22a-174-33;
  - b. RCSA section 22a-174-33a; or
  - c. RCSA section 22a-174-33b

## **PART VII. ADDITIONAL TERMS AND CONDITIONS**

- A.** This permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the regulated activity in compliance with all applicable requirements of any federal, municipal or other state agency. Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- B.** Any representative of DEEP may enter the Permittee's site in accordance with constitutional limitations at all reasonable times without prior notice, for the purposes of inspecting, monitoring and enforcing the terms and conditions of this permit and applicable state law.
- C.** This permit may be revoked, suspended, modified or transferred in accordance with applicable law.
- D.** This permit is subject to and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut and conveys no property rights in real estate or material, nor any exclusive privileges, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby. This permit shall neither create nor affect any rights of persons or municipalities who are not parties to this permit.
- E.** Any document, including any notice, which is required to be submitted to the commissioner under this permit shall be signed by a duly authorized representative of the Permittee and by the person who is responsible for actually preparing such document, each of whom shall certify in writing as follows: "I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under section 22a-175 of the Connecticut General Statutes, under section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute."
- F.** Nothing in this permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.

- G.** Within 15 days of the date the Permittee becomes aware of a change in any information submitted to the commissioner under this permit, or that any such information was inaccurate or misleading or that any relevant information was omitted, the Permittee shall submit the correct or omitted information to the commissioner.
- H.** The date of submission to the commissioner of any document required by this permit shall be the date such document is received by the commissioner. The date of any notice by the commissioner under this permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.
- I.** Any document required to be submitted to the commissioner under this permit shall, unless otherwise specified in writing by the commissioner, be directed to: Office of Director; Enforcement Division; Bureau of Air Management; Department of Energy and Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.