



**STATE OF CONNECTICUT  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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 and Section 22a-174-3a of the Regulations of Connecticut State Agencies.

Owner/Operator:	Kimberly-Clark Corporation
Address:	58 Pickett District Rd, New Milford, CT 06776-4493
Equipment Location:	58 Pickett District Rd, New Milford, CT 06776-4493
Equipment Description:	Tissue Machine #1 Hood Burners - Two (2) Maxon Optima XLS 10 inch

Town-Permit Number:	130-0026
Premises Number:	6
Original Permit Issue Date:	5/30/89
Revision Issue Date:	10/9/07
Expiration Date:	None

/s/ Gina McCarthy  
Gina McCarthy  
Commissioner

10/9/07  
Date

**PERMIT FOR FUEL BURNING EQUIPMENT**

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The conditions on all pages of this permit and attached appendices shall be verified at all times except those noted as design specifications. Design specifications need not be verified on a continuous basis; however, if requested by the Commissioner, demonstration of compliance shall be shown.

**PART I. OPERATIONAL CONDITIONS**

- A.** Fuel Type(s): Natural gas
- B.** Maximum Fuel Consumption over any Consecutive Twelve (12) Month Period: natural gas: 257.7 MMft<sup>3</sup> (based 1020 Btu/ft<sup>3</sup>)
- C.** Fuel Sulfur Content (% by weight, dry basis): <0.003

*Design Specifications*

- A.** Maximum Fuel Firing Rate(s): For each of 2 burners: natural gas - 14,706 ft<sup>3</sup>/h (based on 1,020 Btu/ft<sup>3</sup>)
- B.** Maximum Gross Heat Input (MM BTU/h): two burners @ 15, 30 MMBtu/h total
- C.** Minimum Stack Height (ft): 85
- D.** Minimum Distance from Stack to Property Line (ft): 328
- E.** Minimum Exhaust Gas Flow Rate (acfm): 50,000

**PART II. CONTROL EQUIPMENT** (Applicable if -X- Checked) (See Appendix E for Specifications)

**A. Type**

- |   |  |
|---|--|
| <input type="checkbox"/> None                       | <input type="checkbox"/> Selective Non-Catalytic Reduction |
| <input type="checkbox"/> Scrubber                   | <input type="checkbox"/> Selective Catalytic Reduction     |
| <input type="checkbox"/> Electrostatic Precipitator | <input checked="" type="checkbox"/> Low NOx Burner         |
| <input type="checkbox"/> Cyclone                    | <input type="checkbox"/> Fabric Filter                     |
| <input type="checkbox"/> Multi-Cyclone              | <input type="checkbox"/> Particulate Trap                  |
| <input type="checkbox"/> Thermal DeNOx              | <input type="checkbox"/> Other                             |

**B. Minimum Efficiency**

1. Capture Efficiency (%): n/a
2. Removal Efficiency (%): n/a
3. Overall Efficiency (%): n/a

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Town No: 130

Premise No: 6

Permit No: 0026

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**PART III. CONTINUOUS EMISSION MONITORING REQUIREMENTS AND  
ASSOCIATED EMISSION LIMITS** (Applicable if -X- Checked)

CEM shall be required for the following pollutant/operational parameters and enforced on the following basis:

<u>Pollutant/Operational Parameter</u>	<u>Averaging Times</u>	<u>Emission Limit</u>	<u>Units</u>
<input checked="" type="checkbox"/> None			
<input type="checkbox"/> Opacity	six minute block		
<input type="checkbox"/> SOx	3 hour rolling		
<input type="checkbox"/> NOx	24 hour rolling		
<input type="checkbox"/> CO	1 hour block		
<input type="checkbox"/> CO <sub>2</sub>	1 hour block		
<input type="checkbox"/> O <sub>2</sub>	1 hour block		
<input type="checkbox"/> Temperature	continuous		

(See Appendix A for General Requirements)

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

- A.** The permittee shall keep records of annual operating hours and fuel consumption. Annual operating hours and fuel consumption shall be based on any consecutive twelve (12) month time period and shall be determined by adding (for each fuel) the current month's fuel usage and operating hours to that of the previous eleven (11) months. The Permittee shall make these calculations monthly.
- B.** The Permittee shall use a fuel metering device to continuously monitor fuel feed to this permitted source.
- C.** The Permittee shall keep records on premise indicating continual compliance with all above conditions at all times and shall make them available upon request by the Commissioner for the duration of this permit, or for the previous five (5) years, whichever is less.

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The Permittee shall not exceed the emission limits stated herein at any time. Limits are for the sum of both burners.

**Natural gas**

<u>Criteria Pollutants</u>	<u>#/hr</u>	<u>#/MM BTU</u>	<u>TPY</u>
PM-10	0.24	0.008	1.05
SO <sub>x</sub>	1.76e-2	6.00e-4	0.077
NO <sub>x</sub>	0.60	0.02	2.63
VOC	0.60	0.02	2.63
CO	4.38	0.146	19.18

Demonstration of compliance with the above emission limits shall be met by calculating the emission rates using emission factors from the following sources:

1. AP-42, July 1998 edition (SO<sub>2</sub> only)
2. Manufacturer's Data

The above statement shall not preclude the Commissioner from requiring 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 VI. STACK EMISSION TEST REQUIREMENTS** (Applicable if -X- Checked)

Stack emission testing shall be required for the following pollutant(s):

None at this time

PM       SO<sub>x</sub>       NO<sub>x</sub>       CO       VOC       Pb

Other (HAPS): \_\_\_\_\_, \_\_\_\_\_,

(See Appendix B for General Requirements)

**PART VII. APPLICABLE REGULATORY REFERENCES** (The Regulations of Connecticut State Agencies, hereinafter referred to as the Regulations)

22a-174-3a; 22a-174-18; 22a-174-19; 22a-174-29(b); 22a-174-22

These references are not intended to be all inclusive - other sections of the Regulations may apply.

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**PART VIII. SPECIAL REQUIREMENTS**

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

**B.** *Noise (for non-emergency use)*

The Permittee shall operate this facility at all times in a manner so as not to violate or contribute significantly to the violation of any applicable state noise control regulations, as set forth in Sections 22a-69-1 through 22a-69-7.4 of the Regulations.

**C.** The Permittee shall comply with all applicable sections of the following New Source Performance Standard(s) at all times. (Applicable if -X-checked)

40 CFR Part 60, Subpart:  Db  Dc  GG  A

None

(See Appendix C for Detailed Requirements)

**D.** For this CHP Project, the Permittee shall be utilizing internal offsets to net out of major NSR requirements. These internal offsets are the result of the decommissioning of seven (7) diaper machines (in 2004), decommissioning of Boiler #1 (R-130-0017) and Boiler #2 (R-130-0018), as well as modifications to Tissue Machine Hood Burner #1 (P-130-0026) and Tissue Machine Hood Burner #2 (P-130-0014). The diaper machines #1-#4 were registered sources (R-130-0062, -0063, -0064, -0065) and #5-#7 were exempt units. The following tentative milestone schedule shall be adhered to as closely as possible for the start-up of the new/modified equipment and decommissioning of the old equipment.

1. Combustion Turbine #2 (P-130-0071), start-up - **April 2008**
2. Combustion Turbine #1 (P-130-0070), start-up - **July 2008**
3. Tissue Hood Burner #1 (P-130-0026), hood and burner upgrade - **2<sup>nd</sup> quarter 2008**
4. Tissue Hood Burner #2 (P-130-0014), hood and burner upgrade - **3<sup>rd</sup> quarter 2008**
5. Boiler #2, decommissioning - **April 2008**
6. Boiler #1, decommissioning - **90 days after the start-up of the HRSG associated with CT #1, around October 2008.**

No later than 180 days following the start-up of Combustion Turbine #2 (P-130-0018), Boilers #1 and #2 shall be decommissioned and the modifications to Tissue Hood Burners #1 and #2 shall be complete.

The Permittee shall notify the Department in writing within fifteen days of meeting each of the above milestones.

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**PART IX. 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 the DEP 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.

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**PART IX. ADDITIONAL TERMS AND CONDITIONS, continued:**

- G.** Within fifteen 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; Engineering & Enforcement Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

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