

**APPENDIX A**  
**FORM 7 AIR PERMIT APPLICATION**  
Modification to Stationary Source Permit to Operate  
Columbia Forest Products  
100 Paul Road, SW  
Chatham, Virginia 24531  
Registration No. 30120  
SECOR PN: B2OT.CFP01.VA  
May 27, 2005

COMMONWEALTH OF VIRGINIA  
Department of Environmental Quality



AIR PERMIT APPLICATION  
*General information*

CHECK ALL FORMS THAT APPLY AND LIST ALL ATTACHED DOCUMENTS.

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|--|---|
| MAP AND LOCALITIES LIST (information), Pages iii-vi                            | <u>1</u> PAST ACTUAL ANNUAL CRITERIA POLLUTANT EMISSIONS, Page 15 |
| CONFIDENTIAL INFORMATION, Page vii-viii  | <u>1</u> TOXIC OR HAP EMISSIONS, Page 16                          |
| FORMULA-BASED HAZARDOUS AIR POLLUTANT INFORMATION, Page ix                     | <u>0</u> OTHER REGULATED EMISSIONS, Page 17                       |
| HAZARDOUS AIR POLLUTANT LIST (information), Pages xi-xii                       | <u>0</u> OPERATING PERIODS, Page 18                               |
| <u>0</u> REQUEST FOR LOCAL GOVERNMENT CERTIFICATION FORM, Page xiii            | LIST ATTACHED DOCUMENTS   |
| <u>0</u> CONTENTS AND DOCUMENT CERTIFICATION, Page 1                           | <u>X</u> MAP of SITE LOCATION                                     |
| <u>1</u> GENERAL INFORMATION, Page 2   | <u>X</u> FACILITY SITE PLAN                                       |
| <u>1</u> GENERAL INFORMATION (continued), Page 3                               | <u>0</u> PROCESS FLOW DIAGRAM/SCHEMATIC                           |
| <u>1</u> FUEL-BURNING EQUIPMENT, Page 4  | <u>0</u> MSDS or CPDS SHEETS                                      |
| <u>0</u> PROCESSING, Page 5  | <u>X</u> ESTIMATED EMISSIONS CALCULATIONS                         |
| <u>0</u> INKS, COATINGS, STAINS, AND ADHESIVES, Page 6                         | <u>0</u> STACK TESTS  |
| <u>0</u> INCINERATORS, Page 7  | <u>X</u> AIR MODEL DATA   |
| <u>0</u> VOLATILE ORGANIC COMPOUND/PETROLEUM STORAGE TANKS, Page 8             | _____   |
| <u>0</u> VOLATILE ORGANIC COMPOUND/PETROLEUM STORAGE TANKS - CONTINUED, Page 9 | _____   |
| <u>0</u> LOADING RACKS AND OIL-WATER SEPARATORS, Page 10                       | _____   |
| <u>1</u> STACK PARAMETERS AND FUEL DATA, Page 11                               | _____   |
| <u>1</u> AIR POLLUTION CONTROL AND MONITORING EQUIPMENT, PAGE 12               | _____   |
| <u>1</u> AIR POLLUTION CONTROL/SUPPLEMENTAL INFORMATION, PAGE 13               | _____   |
| <u>1</u> PROPOSED MAXIMUM CRITERIA POLLUTANT EMISSIONS, Page 14                | _____   |

Note added form sheets above; also indicate the number of copies of each form in blank provided.

DOCUMENT CERTIFICATION FORM  
(see other side for instructions)

*I certify under penalty of law that this document and all attachments [as noted above] were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering and evaluating the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

*I certify that I understand that the existence of a permit under [Article 6 of the Regulations] does not shield the source from potential enforcement of any regulation of the board governing the major NSR program and does not relieve the source of the responsibility to comply with any applicable provision of the major NSR regulations.*

SIGNATURE: Tony Marsh DATE: 5/24/05  
 NAME: TONY MARSH  
 TITLE: PLANT MANAGER REGISTRATION  
 COMPANY: Columbia Forest Products NUMBER: 30120

References: Virginia Regulations for the Control and Abatement of Air Pollution (Regulations), 9 VAC 5-20-230B and 9 VAC 5-80-1140E. See reverse of this form for instructions.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR PERMIT APPLICATION GENERAL INFORMATION

PERSON COMPLETING FORM	DATE	REGISTRATION NUMBER
SECOR International Incorporated	5/19/05	30120

REASON(S) FOR SUBMISSION:

<input type="checkbox"/> STATE OPERATING PERMIT	THIS PERMIT IS APPLIED FOR PURSUANT TO PROVISIONS OF THE VIRGINIA ADMINISTRATIVE CODE, 9 VAC 5 Chapter 80, Article 5 (SOP)
<input type="checkbox"/> NEW (Greenfield) SOURCE	THIS PERMIT IS APPLIED FOR PURSUANT TO THE FOLLOWING PROVISION(S) OF THE VIRGINIA ADMINISTRATIVE CODE:
<input checked="" type="checkbox"/> MODIFICATION of a SOURCE	<input checked="" type="checkbox"/> 9 VAC 5 Chapter 80, Art. 6 (MINOR SOURCES)
<input type="checkbox"/> RELOCATION of a SOURCE	<input type="checkbox"/> 9 VAC 5 Chapter 80, Art. 8 (PSD MAJOR SOURCES)
<input type="checkbox"/> Non-Binding Letter of EXEMPTION	<input type="checkbox"/> 9 VAC 5 Chapter 80, Art. 9 (NON-ATTAINMENT MAJOR SOURCES)
<input type="checkbox"/> AMENDMENT to a Permit dated: _____ Permit type: _____	<input type="checkbox"/> SOP (Art. 5) <input type="checkbox"/> NSR (Art. 6)
Amendment Type:	THIS AMENDMENT IS REQUESTED PURSUANT TO THE PROVISIONS OF:
<input type="checkbox"/> Administrative Amendment	<input type="checkbox"/> 9 VAC 5-80-970 (SOP Adm.) <input type="checkbox"/> 9 VAC 5-80-1270 (NSR Adm.)
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> 9 VAC 5-80-980 (SOP Minor) <input type="checkbox"/> 9 VAC 5-80-1280 (NSR Minor)
<input type="checkbox"/> Significant Amendment	<input type="checkbox"/> 9 VAC 5-80-990 (SOP Sig.) <input type="checkbox"/> 9 VAC 5-80-1290 (NSR. Sig.)
Complete Pages 1, 2, and 3 and refer to the above checked provisions for additional information requirements. Form 7 pages may be used to satisfy those requirements.	
<input type="checkbox"/> REGISTRATION/REGISTRATION UPDATE	
<input type="checkbox"/> NOTIFICATION OF OWNERSHIP OR NAME CHANGE - EFFECTIVE DATE: _____	
(Complete Pages 1, 2 and 3 ONLY)	
<input type="checkbox"/> OTHER (SPECIFY): _____	

COMPANY AND DIVISION NAME: Columbia Forest Products		
MAILING ADDRESS: PO Drawer F, Chatham, VA 24531		
TELEPHONE NUMBER: (804) 432-2591	NUMBER OF EMPLOYEES AT SITE: Approximately 200	PROPERTY AREA AT SITE: 17 acres
EXACT SOURCE LOCATION - INCLUDE NAME OF CITY (COUNTY) AND FULL STREET ADDRESS OR DIRECTIONS: 100 Paul Road SW, Chatham (Pittsylvania County), VA 24531		
PERSON TO CONTACT ON AIR POLLUTION MATTERS - NAME AND TITLE: Doane Cowan Regional Engineer	PHONE NUMBER: (434)432-2591 X2125	FAX NUMBER: (434) 432-1598
	E-MAIL ADDRESS: DCowan@columbiaforestproducts.com	

Please check here if you obtained this form from the DEQ website.

FOR OFFICIAL USE ONLY

COUNTY CODE:	PLANT ID NUMBER:	LAT/LONG:
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COMMONWEALTH OF VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY  
 AIR PERMIT APPLICATION GENERAL INFORMATION (continued)

COMPANY NAME	DATE	REGISTRATION NUMBER
Columbia Forest Products	5/19/05	30120

**FOR PORTABLE PLANTS:**

IS THIS FACILITY DESIGNED TO BE PORTABLE?  YES  NO

- IF YES, IS THIS FACILITY ALREADY PERMITTED AS A PORTABLE PLANT?  YES  NO PERMIT DATE: \_\_\_\_\_

IF NOT PERMITTED, IS THIS AN APPLICATION TO BE PERMITTED AS A PORTABLE PLANT?  YES  NO

IF PERMITTED AS A PORTABLE FACILITY, IS THIS A NOTIFICATION OF RELOCATION?  YES  NO

- DESCRIBE THE NEW LOCATION OR ADDRESS (INCLUDE A SITE MAP): \_\_\_\_\_

- WILL THE PORTABLE FACILITY BE CO-LOCATED WITH ANOTHER SOURCE?  YES  NO REG. NO.: \_\_\_\_\_

- WILL THE PORTABLE FACILITY BE MODIFIED OR RECONSTRUCTED AS A RESULT OF THE RELOCATION?  YES  NO

- WILL THERE BE ANY NEW EMISSIONS OTHER THAN THOSE ASSOCIATED WITH THE RELOCATION?  YES  NO

- IS THE FACILITY SUITABLE FOR THE AREA TO WHICH IT WILL BE LOCATED? (ATTACH DOCUMENTATION.)  YES  NO

**DESCRIBE THE PRODUCTS MANUFACTURED AND/OR SERVICES PERFORMED AT THIS FACILITY:**

The Chatham facility consolidates hardwood plywood panels through the application of glue mixes to various material surfaces. The panels are bonded, under heat and pressure, using multi-opening presses. The consolidated panels are trimmed and sanded, resulting in the finished product. Some of the consolidated panels are finished-coated with an ultraviolet cured coating.

**LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE(S) FOR THE FACILITY:**

2 4 3 5

**LIST THE NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) CODE(S) FOR THE FACILITY:**

3 2 1 2 1 1

**PLEASE LIST ALL THE FACILITIES IN VIRGINIA UNDER COMMON OWNERSHIP OR CONTROL BY THE OWNER OF THIS FACILITY:**


**MILESTONES.** This section is to be completed if the permit application includes a new emissions unit or modification to existing operations.

MILESTONES*	STARTING DATE	ESTIMATED COMPLETION DATE
New equipment installation	December 2005	January 2006
Modification of existing process or equipment	--	--
Start-up dates	January 20, 2006	--

\*For new or modified installations to be constructed in phased schedule, give construction/installation starting and completion date for each phase.

**FUEL-BURNING EQUIPMENT AND STATIONARY COMBUSTION ENGINES (EXCEPT INCINERATORS)  
(BOILERS, TURBINES, GAS/DIESEL ENGINES, KILNS, ETC.):**

COMPANY NAME Columbia Forest Products      DATE 5/19/05      REGISTRATION NUMBER 30120

UNIT REF. NO.	EQUIPMENT MANUFACTURER, TYPE AND MODEL NUMBER	DATE OF MFR. OR CONST.	M O D C O D E	MAXIMUM RATED INPUT HEAT CAPACITY FOR EACH FUEL (MILLION BTU/HR)	TYPE OF FUEL	TYPE OF EQUIPMENT (USE CODE A)	MAXIMUM RATED OUTPUT APPROPRIATE TO SOURCE TYPE			USAGE (USE CODE B)
							STEAM QUANTITY (lb/hr)	OUTPUT BRAKE HORSEPOWER (BHP)	ELECTRICAL POWER (KW)	
6	Hurst, 300 Horsepower, HYB 300-300	2005	5	12.6	Wood waste	13	20,700	--	--	3,4,8

FOR MODIFICATION CODES SEE INSTRUCTIONS ON NEXT PAGE.

**Code A - Equipment**

**BOILER TYPE:**

1. Pulverized Coal - Wet Bottom
2. Pulverized Coal - Dry Bottom
3. Pulverized Coal - Cyclone Furnace
4. Spreader Stoker
5. Chain or Travelling Grate Stoker
6. Underfeed Stoker
7. Hand Fired Coal
8. Oil, Tangentially Fired
9. Oil, Horizontally Fired (except rotary cup)
10. Gas, Tangentially Fired
11. Gas, Horizontally Fired

**Code A (continued)**

12. Wood with Flyash Reinjection
13. Wood without Flyash Reinjection
14. Other Specify

**STATIONARY ENGINE TYPE:**

15. Combustion Turbine
16. Internal Combustion Engine
17. Other Specify

**OTHER COMBUSTION UNITS:**

18. Oven / Kiln
19. Rotary Kiln
20. Process Furnace
99. Other Specify

**Code B - Usage**

1. Steam Production
2. Drying / Curing
3. Space Heating
4. Process Heat
5. Food Processing
6. Electrical Generation
7. Mechanical Work
99. Other

**STACK PARAMETERS AND FUEL DATA:**

COMPANY NAME	Columbia Forest Products	DATE	5/19/05	REGISTRATION NUMBER	30120
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UNIT REF. NO.	VENT/STACK NO.	VENT/STACK OR EXHAUST DATA					FUEL(S) DATA							
		VENT/STACK CONFIG. (USE CODE K)	VENT STACK HEIGHT (feet)	EXIT DIA. (feet)	EXIT GAS VELOCITY (fpm)	EXIT GAS VOLUME (acfm)	EXIT GAS TEMP. (°F)	TYPE OF FUEL	MAX. RATED BURNED/HOUR (SPECIFY UNITS)	MAX. EXPECTED BURNED/DAY (SPECIFY UNITS)	MAX. EXPECTED BURNED/YEAR (SPECIFY UNITS)	HIGHER HEATING VALUE (SPECIFY UNITS)	MAX. % SULFUR	MAX. % ASH
6	6-BLR	1	40	1.6	3,277	6,797	450	Wood waste	1,536 lbs	18.4 tons	6,728 tons	8,200 Btu/lbs fuel	0.2	1.1

**Code K - Vent/Stack Configuration**

1. Unobstructed vertical discharge
2. Obstructed vertical discharge (e.g., raincap)
3. Horizontal or downward discharge (e.g., T-stack)
99. Other (specify)

**AIR POLLUTION CONTROL AND MONITORING EQUIPMENT:**

COMPANY NAME Columbia Forest Products

DATE 5/19/05

REGISTRATION NUMBER 30120

UNIT REF. NO.	VENT/STACK NO.	DEVICE REF. NO.	POLLUTANT/PARAMETER (See instructions)	AIR POLLUTION CONTROL EQUIPMENT			MONITORING INSTRUMENTATION
				MANUFACTURER AND MODEL NUMBER	TYPE (USE CODE L)	% EFFICIENCY	
6	6-BLR	6-MCLW	PM/PM <sub>10</sub>	Hurst	3	DESIGN 80 ACTUAL 80	SPECIFY TYPE, MEASURED POLLUTANT AND RECORDER USED None

**Code L - AIR POLLUTION CONTROL EQUIPMENT TYPE**

- 1. Settling Chamber
- 2. Cyclone
- 3. Multicyclone
- 4. Cyclone scrubber
- 5. Orifice scrubber
- 6. Mechanical scrubber
- 7. Venturi scrubber
  - (a) fixed throat
  - (b) variable throat
  - 8. Mist eliminator
- 9. Electrostatic Precipitator
  - (a) hot side
  - (b) cold side
  - (c) high voltage
  - (d) low voltage
  - (e) single stage
  - (f) two stage
  - (g) other (specify)
- 10. Filter
  - (a) baghouse
  - (b) other (specify)
- 11. Catalytic Afterburner
- 12. Direct Flame Afterburner
- 13. ABSORBER
  - (a) packed tower
  - (b) spray tower
  - (c) tray tower
  - (d) venturi
  - (e) other (specify)
- 14. ADSORBENT
  - (a) activated carbon
  - (b) molecular sieve
  - (c) activated alumina
  - (d) silica gel
  - (e) other (specify)
- 15. Condenser (specify)
- 99. Other (specify)

**AIR POLLUTION CONTROL EQUIPMENT - SUPPLEMENTAL INFORMATION:**

COMPANY NAME **Columbia Forest Products** DATE **5/19/05** REGISTRATION NUMBER **30120**

DEVICE REF. NO.	TYPE (Use Code L)	LIQUID FLOW RATE (gpm) (Codes 4,5, 6,7,13,15)	LIQUID MEDIUM (Codes 4,5,6,7, 13,15)	CLEANING METHOD (Codes 9, 10,13,14)	NUMBER OF FIELDS (Code 9)	NUMBER OF SECTIONS (Codes 9,10)	AIR-TO-CLOTH RATIO (ppm) (Code 10)	FILTER MATERIAL (Code 10)	INLET TEMP (°F)	REGENERATION METHOD & CYCLE TIME (sec) (Code 14)	CHAMBER TEMP. (°F) (Codes 11,12)	RETENTION TIME (sec) (Codes 11,12)	PRESSURE DROP (in. H <sub>2</sub> O) (If Codes 3,4,5,6,7, 10,13)
6-MCLN	3	-	-	-	-	-	-	-	450	-	-	-	3.0

**Code L - AIR POLLUTION CONTROL EQUIPMENT TYPE**

- 1. Settling Chamber
- 2. Cyclone
- 3. Multicyclone
- 4. Cyclone scrubber
- 5. Orifice scrubber
- 6. Mechanical scrubber
- 7. Venturi scrubber
  - (a) fixed throat
  - (b) variable throat
- 8. Mist eliminator
- 9. Electrostatic Precipitator
  - (a) hot side
  - (b) cold side
  - (c) high voltage
  - (d) low voltage
  - (e) single stage
  - (f) two stage
  - (g) other (specify)
- 10. Filter
  - (a) baghouse
  - (b) other (specify)
- 11. Catalytic Afterburner
- 12. Direct Flame Afterburner
- 13. ABSORBER
  - (a) packed tower
  - (b) spray tower
  - (c) tray tower
  - (d) ventur
  - (e) other (specify)
- 14. ADSORBER
  - (a) activated carbon
  - (b) molecular sieve
  - (c) activated alumina
  - (d) silica gel
  - (e) other (specify)
- 15. Condenser (specify)
- 99. Other (specify)





**SOURCE-WIDE TOXIC OR HAZARDOUS AIR POLLUTANT (HAP) EMISSIONS FROM THE PROPOSED FACILITY:**

COMPANY NAME Columbia Forest Products		DATE 5/19/05	REGISTRATION NUMBER 30120
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TOXIC OR HAZARDOUS POLLUTANT (HAP) NAME	CAS #	IF CONTROLLED AS PROPOSED		WITHOUT THE PROPOSED CONTROLS		**TOXIC OR HAP WAS ALSO REPORTED ON PAGE 15 AS: (PM <sub>10</sub> /PM <sub>2.5</sub> /VOC or N/A)	STATE OPERATING PERMITS EMISSION CAP (YES/NO)	BASIS OF ESTIMATE S (USE CODE M)	UNIT REF. NO.	M O D C O D E	VENT/ STACK NO.
		lb/hr	tons/yr	lb/hr	tons/yr						
Acrolein	107-02-8	--	--	0.050	0.22	VOC	N	3 (AP-42)	6	5	6-BLR
Formaldehyde	50-00-0	--	--	0.055	0.24	VOC	N	3 (AP-42)	6	5	6-BLR

Code M - Emission Estimate Method (provide detailed calculations including assumed control efficiency of control equipment, if applicable)

1. Stack Test (include a copy)
2. Material Balance (include calculations)
3. Emission Factor (Identify 99. Other (describe)

\* Toxic Pollutant means a pollutant on the designated list at the front of this application. Particulate matter and volatile organic compounds are not toxic pollutants as generic classes of substances, but individual substances within these classes may be toxic pollutants because their toxic properties or because a TLV (tm) has been established. See the toxic pollutant listing in the front of this application.  
 \*\* Specify which pollutants are also reported as components of PM, PM<sub>10</sub>, or VOC on page 15.