

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.

- | | |
|--|---|
| 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 |
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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:

STATE OPERATING PERMIT

THIS PERMIT IS APPLIED FOR PURSUANT TO PROVISIONS OF THE VIRGINIA ADMINISTRATIVE CODE, 9 VAC 5 Chapter 80, Article 5 (SOP)

NEW (Greenfield) SOURCE

THIS PERMIT IS APPLIED FOR PURSUANT TO THE FOLLOWING PROVISION(S) OF THE VIRGINIA ADMINISTRATIVE CODE:

MODIFICATION of a SOURCE

9 VAC 5 Chapter 80, Art. 6 (MINOR SOURCES)

RELOCATION of a SOURCE

9 VAC 5 Chapter 80, Art. 8 (PSD MAJOR SOURCES)

9 VAC 5 Chapter 80, Art. 9 (NON-ATTAINMENT MAJOR SOURCES)

Non-Binding Letter of EXEMPTION

AMENDMENT to a Permit dated: _____

Permit type:

SOP (Art. 5)

NSR (Art. 6)

Amendment Type:

Administrative Amendment

Minor Amendment

Significant Amendment

THIS AMENDMENT IS REQUESTED PURSUANT TO THE PROVISIONS OF:

9 VAC 5-80-970 (SOP Adm.) 9 VAC 5-80-1270 (NSR Adm.)

9 VAC 5-80-980 (SOP Minor) 9 VAC 5-80-1280 (NSR Minor)

9 VAC 5-80-990 (SOP Sig.) 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.

REGISTRATION/REGISTRATION UPDATE

NOTIFICATION OF OWNERSHIP OR NAME CHANGE - EFFECTIVE DATE: _____
(Complete Pages 1, 2 and 3 ONLY)

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: |
|--------------|------------------|-----------|

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:

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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 |
| | | | | | | | | | | |
| | | | | | | | | | | |
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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

| 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 |
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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. | M O D C O D E | 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 | 5 | 6-BLR | 6-MCLW | PM/PM ₁₀ | Hurst | 3 | DESIGN 80 ACTUAL 80 | None |
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Code L - AIR POLLUTION CONTROL EQUIPMENT TYPE

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|--|---|
| <ul style="list-style-type: none"> 1. Settling Chamber 2. Cyclone 3. Multicyclone 4. Cyclone scrubber 5. Orifice scrubber 6. Mechanical scrubber 7. Venturi scrubber <ul style="list-style-type: none"> (a) fixed throat (b) variable throat 8. Mist eliminator | <ul style="list-style-type: none"> 9. Electrostatic Precipitator <ul style="list-style-type: none"> (a) hot side (b) cold side (c) high voltage (d) low voltage (e) single stage (f) two stage (g) other (specify) 10. Filter <ul style="list-style-type: none"> (a) baghouse (b) other (specify) 11. Catalytic Afterburner 12. Direct Flame Afterburner |
|--|---|
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- | |
|---|
| <ul style="list-style-type: none"> 13. ABSORBER <ul style="list-style-type: none"> (a) packed tower (b) spray tower (c) tray tower (d) venturi (e) other (specify) 14. ADSORBENT <ul style="list-style-type: none"> (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 ₂ O) (If Codes 3,4,5,6,7, 10,13) |
|-----------------|-------------------|---|--------------------------------------|-------------------------------------|---------------------------|---------------------------------|------------------------------------|---------------------------|-----------------|--|----------------------------------|------------------------------------|--|
| 6-MCLN | 3 | - | - | - | - | - | - | - | 450 | - | - | - | 3.0 |
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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. ADSORBER
 - (a) activated carbon
 - (b) molecular sieve
 - (c) activated alumina
 - (d) silica gel
 - (e) other (specify)
- 15. Condenser (specify)
- 99. Other (specify)

PROPOSED MAXIMUM CRITERIA POLLUTANT EMISSIONS:

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

| UNIT REF. NO. | MAXIMUM EMISSION RATES TO ATMOSPHERE OF CRITERIA POLLUTANTS | | | | | | | | | | | | | | BASIS OF ESTIMATE (USE CODE M) | | |
|---------------|---|----------------------|---------|---------------------------------------|---------|------------------|---------|-------------------|---------|-------------------|---------|------------------------------|---------|---------|--------------------------------|--|--------------|
| | M C D C D D E | PM * | | PM ₁₀ * | | SO ₂ | | NO _x | | CO | | VOC* | | Pb | | STATE OPERATING PERMIT EMISSION CAP (Yes/No) | |
| | | (PARTICULATE MATTER) | | (10 µM OR SMALLER PARTICULATE MATTER) | | (SULFUR DIOXIDE) | | (NITROGEN OXIDES) | | (CARBON MONOXIDE) | | (VOLATILE ORGANIC COMPOUNDS) | | (LEAD) | | | |
| | | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | tons/yr | lb/hr | | | tons/yr |
| 6 | 5 | 3.78 | 16.6 | 3.40 | 14.9 | 0.32 | 1.4 | 6.17 | 27.0 | 7.56 | 33.1 | 0.21 | 0.94 | 6.0E-04 | 0.0026 | N | 3 (AP-42) |
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Code M - Emission Estimate Method (provide detailed calculations including assumed control equipment to support reported values.)

1. Stack Test (include a copy of summary)
 2. Material Balance (include calculations)
 3. Emission Factor (identify source) and include calculations
 99. Other (describe)
- * PM, PM₁₀, and VOCs should also be split up by component and reported under TOXIC OR HAZARDOUS POLLUTANTS.

PAST ACTUAL CRITERIA POLLUTANT EMISSIONS:

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

| UNIT REF. NO. | AVERAGE ACTUAL ANNUAL EMISSIONS TO ATMOSPHERE OF CRITERIA POLLUTANTS FOR THE PERIOD: 20__ TO 20__ | | | | | | | BASIS OF ESTIMATE (USE CODE M) | |
|---------------|---|----------------------|---------------------------------------|------------------|-------------------|-------------------|------------------------------|--------------------------------|--------|
| | M O D C O D E | PM | PM ₁₀ | SO ₂ | NO _x | CO | VOC | | Pb |
| | | (PARTICULATE MATTER) | (10 µM OR SMALLER PARTICULATE MATTER) | (SULFUR DIOXIDE) | (NITROGEN OXIDES) | (CARBON MONOXIDE) | (VOLATILE ORGANIC COMPOUNDS) | | (LEAD) |
| | tons/yr | tons/yr | tons/yr | tons/yr | tons/yr | tons/yr | tons/yr | tons/yr | |
| 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
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Code M - Emission Estimate Method (provide detailed calculations including assumed control efficiency of control equipment to support reported values.)

1. Stack Test (include a copy of summary)
2. Material Balance (include calculations)
3. Emission Factor (identify source) and include calculations
99. Other (describe)

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 |
|---------------------------------------|--|--------------|---------------------------|

| 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 ₁₀ /PM _{2.5} /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 |
| | | | | | | | | | | | |
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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, PM₁₀, or VOC on page 15.