

## References 1B -

### Operations Data

1B-01 – 1B-06	Commonwealth of Virginia, State Air Pollution Control Board, permit request documents, October 22, 1980.
1B-07 – 1B-08	SAPCP Region III, "Overview Inspection," October 28, 1988.
1B-09 – 1B-10	Source Registration Update for Calendar Year 1988, January 6, 1989.
1B-11	Permit application, March 15, 1995 (excerpt).
1B-12	Permit modification, November 5, 1997 (excerpt).
1B-13	Annual recordkeeping draft, January 25, 1999.
1B-14	Annual recordkeeping final, March 25, 1999.
1B-15	Annual recordkeeping final, February 8, 2000.
1B-16	DEQ summary, March 1, 2000.
1B-17	Emission calculations, 2000.
1B-18	Annual recordkeeping, February 1, 2001.
1B-19	DEQ Summary, 2001.
1B-20	Annual recordkeeping, January 4, 2002.
1B-21	DEQ summary, April 4, 2003.
1B-22 – 1B-23	DEQ Consolidated Plant Emission Report (excerpt), April 12, 2004.

10/30/80 Orig - New of Compliance

1B-01

211 B



# COMMONWEALTH of VIRGINIA

STATE AIR POLLUTION CONTROL BOARD

For Agency Use Only		
Date Received	Received By	Sections Completed
		E1
Register Source as:		2 3
		4 5
Location		E2
		1 2
		3 4
Acknowledgement Sent: Date	By	E3
		1 2
		3 4
SIC Code:	Plant Registration Number:	E4
		E5
UTM Coordinates:		1 2
		E6
County:	City:	MAP
Plant ID:	Height Above MSL (ft.):	

### SECTION E-1 GENERAL INFORMATION

Reason for Registration

Existing

Change of Ownership Or Location

Permit Application New Source

Registration Update

Permit Application Modification

Other (Specify) \_\_\_\_\_

OCT 24 1980

Company and Division Name <b>Whittle Plywood CORP.</b>		Date of Submittal <b>10/22/80</b>
Mailing Address <b>DRAWER F</b>		County <b>PITTSYLVANIA</b>
City or Town <b>Chatham</b>	State <b>VA</b>	Number of Employees at Site <b>70</b>
Person to Contact on Air Pollution Matters <b>HENRY D. Whittle, Jr.</b>	Zip Code <b>24531</b>	Property Area at Site <b>14 ACRES</b>
Title <b>President</b>		Telephone Number <b>793-3337 W 793-3597-H</b>
Exact Source Location, include name of locality (County or City) <b>State Road 1424 - 1/2 mi. N. of Rt. 57 on Rt. 1424, 100 PAUL ROAD, S.W</b>		
Major Activity at Source Location		Do You Handle or Discharge any of the Following Materials?
<input checked="" type="checkbox"/> Manufacturing	<input type="checkbox"/> Hospital or Laboratory	<input type="checkbox"/> Mercury
<input type="checkbox"/> Retail or Wholesale Store	<input type="checkbox"/> Warehouse	<input type="checkbox"/> Antimony
<input type="checkbox"/> Office Building	<input type="checkbox"/> Residential or Apts.	<input type="checkbox"/> Cadmium
<input type="checkbox"/> School or Church	<input type="checkbox"/> Other (specify) _____	<input type="checkbox"/> Asbestos
<input type="checkbox"/> Hotel or Motel		<input type="checkbox"/> Arsenic
		<input type="checkbox"/> Beryllium
		<input type="checkbox"/> Chlorine
		<input type="checkbox"/> Vinyl Chloride
		<input type="checkbox"/> Bromides
		<input type="checkbox"/> Lead
		<input type="checkbox"/> Fluorides
Type or Print Name of Owner or Certified Company Official <b>Henry D. Whittle, Jr.</b>		Title <b>President</b>
Signature <b>HENRY D. Whittle, Jr.</b>		Date <b>10/22/80</b>

SECTION E-1 GENERAL INFORMATION (Cont.)

List the Products Manufactured and/or Services Performed at This Facility.

MANUFACTURE of Plywood Panels for cabinets &  
SPECIAL order. Veneer cores are shipped in

List the Standard Industrial Classification (SIC) Codes for Your Operation.

IF THIS FORM IS BEING USED BY A NEW OR MODIFIED SOURCE AS AN APPLICATION FOR A PERMIT TO CONSTRUCT AND/OR MODIFY AND OPERATE, PLEASE COMPLETE THE SECTION BELOW AND E-1, PAGES 3, 4 and 5 IF APPLICABLE AND OTHER REQUIRED SECTIONS.

PURSUANT TO THE PROVISIONS OF THE REGULATIONS FOR THE CONTROL AND ABATEMENT OF AIR POLLUTION OF THE COMMONWEALTH OF VIRGINIA, APPLICATION IS HEREBY MADE FOR AUTHORITY TO CONSTRUCT AND/OR MODIFY AND OPERATE THE EQUIPMENT OF FACILITY DESCRIBED ON THE ATTACHED PERMIT FORMS.

(COMPLETE APPLICABLE ITEMS - ESTIMATE DATES)

MILESTONES	STARTING DATE	COMPLETING DATE
Site Selection		
Design and Specifications		
Construction Contract Let		
New Source Construction		
Modification of Existing Equipment	12/1/80	1/1/81
Final Source Emission Testing		
Transfer of Location		
Transfer of Ownership		

IF THIS FACILITY HAS BEEN PREVIOUSLY REGISTERED BY THE STATE AIR POLLUTION CONTROL BOARD, PLEASE LIST THE REGISTRATION NUMBER ASSIGNED BY THE BOARD.

30120  
REGISTRATION NUMBER









RECEIVED

OCT 28 1988

Region III

SAPCP REGION III

OVERVIEW INSPECTION

I. INTRODUCTION:REGISTRATION NO. 30120DATE October 28, 1988COMPANY NAME Columbia Whittle CorporationMAILING ADDRESS P.O. Drawer 7, Chatham, VA 24531LOCATION OF FACILITY State Road 1424, 1/2 mile North of Route 57TYPE OF INDUSTRY plywood panel manufacturerCOMPANY CONTACT Joe Young, Deane Cowan PHONE (804) 432-2591SAPCB INSPECTOR(S) G. F. BowmanII. SUMMARY OF FINDINGSA. DESCRIPTION OF PROCESS:

Wood veneer is placed on core material, which is purchased, via a thin layer of glue (also purchased). The assemblies are then placed in a steam heated hydraulic press to form the raw plywood. Raw plywood is then trimmed to finish dimensions by saws. The finished product is lightly sanded on face and back. Product is now ready to be shipped. Wood chips and dust are run through a collection system and burned to create steam.

## A. DESCRIPTION OF PROCESS (CONTINUED)

## 1. EQUIPMENT LIST (ALL EQUIPMENT THAT EMITS A POLLUTANT)

saws (3)

sanders (2)

hog (1)

## 2. PROCESS RATES (FROM EACH PROCESS)

sawing: 74.4 tons/day; 22,320 tons/year (input)  
 Output = 20,098 tons/year

sanding: same as sawing

hog: 1.0 ton/day; 300 tons/year

wood waste: 5.95 tons/day; 1785 tons/year

(FOR OFFICE  
USE ONLY)

COUNTY: 2380

AOCR : 222

PLANT : 0017

GRID : 112

NEDS : 2

REF  
\_NO

SCC\_NO

01 10300903

20 30700798

PROCESS\_DESCRIPTION

WOOD BOILER

PLYWOOD/PART. BOARD UNCLA.

SEE\_NO\_AND\_EQUIPMENT

1

2

HOUSTON STANWOODC8CAMPL

SAWING/SANDING PLYWOOD

SOURCE REGISTRATION UPDATE FOR CALE

SOURCE NAME : COLUMBIA WHITTLE CORP

PLANT LOCATION : RT-1424/0.5MI N.CHATHAM,VA

MAILING ADDRESS: P.O. DRAWER F

CHATHAM

VA 24531

DATE OF PRINTING 01/06/89

DER YEAR : 1987

1988

*822 28*  
*2/15/89*

REGISTRATION NUMBER : 30120

PERSON TO CONTACT : COWAN, DOANE

TELEPHONE NUMBER : (804)432-2591

NO. OF EMPLOYEES : 0098

PRINCIPAL PRODUCT : PLYWOOD SIC : 2432

ANNUAL-PROCESS-BASE-	XSULEYB	XASH	HEAT-CONTENT
E 2500 TONS BURNED	0.00	02.0	008000 BTU/LB
13972	1000	80.	FT. PRODUCT

STACK PARAMETERS AND FUEL DATA:

COMPANY NAME Columbia Forest Products

DATE June 17, 1996

REGISTRATION NUMBER 30120

Check box if this page shows alternative operating scenario(s).

UNIT REF. NO.	VENT/STACK OR EXHAUST DATA					FUEL(S) DATA								
	VENT/STACK NO.	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
1	1 <sup>1</sup> BLR	1	40	2	1,000	3,200	400	Hogged Wood	975 lb/hr	11.7 ton/day	3,416 ton/yr	4,500 Btu/lb	N/A	N/A
2	2 <sup>1</sup> CB	3	32	5.6	870	27,000	Amb.							
2	2 <sup>1</sup> PB	3	60	1X2	1,350	3,700	Amb.							
2	2 <sup>1</sup> HB	3	38	To be determined	To be determined	15,000	Amb.							
5	5 <sup>1</sup> DE	1	2	0.42	19,800	2,700	940	Diesel Fuel	21 gal/hr	504 gal/day	56,105 gal/yr	140,000 Btu/gal	0.5%	N/A

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)

**STACK PARAMETERS AND FUEL DATA:**

COMPANY NAME Columbia Forest Products

DATE 11/05/97

REGISTRATION NUMBER 30120

Check box if this page shows alternative operating scenario(s).

UNIT REF NO.	VENT/STACK/EXHAUST DATA					FUEL(S) DATA								
	VENT/STACK NO.	VENT/STACK CONFIG (USE CODE K)	VENT/STACK HEIGHT (feet)	EXIT GAS DIA (feet)	EXIT GAS VELOCITY (ft/min)	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
1	1-BLR	1	40	2	1,000	3,200	400	Hogged Wood	1,073 lb/hr	12.9 ton/day	4,271 ton/yr	8,100 Btu/lb <sup>w</sup>	N/A	N/A
2	2-CB	3	32	5.6	870	27,000	Amb.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	2-HB	3	36	3 x 3	1,440	13,000	Amb.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	5-DE	1	2	0.42	19,800	2,700	940	Diesel Fuel	21 gal/hr	504 gal/day	56,105 gal/yr	140,000 Btu/gal	0.5%	N/A
2	2-PB(N)	3	40	2 x 5	4,000	40,000	Amb.	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**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) \_\_\_\_\_

(e) Higher heating value (HHV) estimated by adjusting AP-42 assumptions of 50% moisture content (MC) to 10% actual MC.  
 $HHV_{actual} = HHV_{AP42} \times [(1 - 0.10)/(1 - 0.50)] = 4,500 \times 1.8 = 8,100$  Btu/lb



**Twelve Month Totals**  
**Annual Recordkeeping Calculated Monthly for Operating Permit**  
**Columbia Forest Products, Chatham, VA - Registration No. 30120**

Month	22a Boiler Operation		22b Diesel for Hog	22c UV Coating		22e Estimated UV VOCs (c) (lbs)	22e Estimated UV HAPs (d) (lbs)	22e UV Coating Purch'd (gals)	22d Resin Purchased (lbs)	22f Formaldehyde From Resin (lbs)	22f Methanol From Resin (lbs)	22f Total VOCs From Resin (lbs)
	Operating Time (hours)	Wood Fuel Burned (a) (tons)		Panels Coated (number)	Surface Two Sides (b) (Sq.Ft.)							
1 January 1998	552	236.9	751.6	32,334	2,069,376	236	0	575	538,600	539	1,002	2,618
2 February 1998	528	226.6	427.4	36,349	2,326,336	333	0	500	466,865	467	868	2,269
3 March 1998	552	236.9	468.1	39,515	2,528,960	382	0	877	512,860	513	954	2,492
4 April 1998	552	236.9	418.8	35,975	2,302,400	329	0	560	495,100	495	921	2,406
5 May 1998	552	236.9	863.8	38,499	2,463,836	352	0	450	538,320	538	1,001	2,616
6 June 1998	576	247.2	214.5	46,922	3,003,008	429	0	200	547,940	548	1,019	2,663
7 July 1998	480	206.0	529.2	47,206	3,021,184	432	0	450	500,520	501	931	2,433
8 August 1998	552	236.9	333.1	79,288	5,073,152	725	0	300	494,920	495	921	2,405
9 September 1998	596	298.7	132.2	72,380	4,632,320	662	0	1,150	549,860	550	1,023	2,673
10 October 1998	528	226.6	763.0	55,625	3,560,000	509	0	1,082	593,620	594	1,104	2,885
11 November 1998	480	206.0	810.8	37,907	2,419,648	346	0	550	323,440	323	602	1,572
12 December 1998	480	206.0	842.8	38,036	2,434,304	348	0	700	407,900	408	759	1,982
<b>Totals:</b>	<b>6,528</b>	<b>2,802</b>	<b>6,543</b>	<b>559,916</b>	<b>35,834,624</b>	<b>5,124</b>	<b>0</b>	<b>7,384</b>	<b>5,970,045</b>	<b>5,970</b>	<b>11,104</b>	<b>29,074</b>
				<b>Tons: 2.56</b>					<b>Tons: 5.55</b>			<b>Tons: 14.51</b>

<b>Permit Limits:</b>	<b>60,000 (gals/yr)</b>	<b>84,096,000 (Sq.Ft./yr)</b>	<b>6.0 (Tons/yr)</b>	<b>9.8 (Tons/yr)</b>	<b>9.8 (Tons/yr)</b>
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(a) Wood fuel burned = (Operating hours) X (658.4 lbs fuel/hr/2000); based on field study data at 80% firing rate (which is the normal maximum operating rate).  
 (b) Two sided surface area = (Number of panels) X (64 Sq.Ft./ Panel); assumes all panels are coated both sides, a conservatively high assumption.  
 (c) VOC estimate = (0.143 lbs VOC/MSq.Ft.) X (Surface) / (1000 Sq.Ft.); based on UV line permit application 84,096 MSq.Ft and 52,428 gals of highest VOC product (0.23 lb/gal).  
 (d) None of the UV coating products currently in use at the Chatham facility list HAPs in the product MSDS.