PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
WEYERHAEUSER COMPANY / DODSON SAWMILL DIVISION
PROPOSED PART 70 AIR OPERATING PERMIT MINOR MODIFICATION AND RENEWAL

The LDEQ, Office of Environmental Services, is accepting written comments on the Part 70 air operating permit minor modification and renewal for Weyerhaeuser Company, P.O. Box 98, Dodson, LA 71422-0098 for the Dodson Sawmill Division. **The facility is located at 706 Hwy 167, Dodson, Winn Parish.**

Weyerhaeuser Company requested to:

- Incorporate the requirements of 40 CFR 63 Subpart DDDD into the permit
- Incorporate upgraded lathe scanners and computer software in order to better optimize operations of the Lathe (EQT 20)
- Incorporate two resin tanks (EQT 28 and EQT 29) as permitted sources
- Reconcile certain emission rates using updated emission factors.

Pollutant	Before	After	Change
PM_{10}	49.63	47.33	- 2.30
SO_2	24.64	24.64	-
NO_X	211.54	217.51	+ 5.97
CO	485.99	485.99	-
VOC	466.25	466.73	+ 0.48
Toxic VOC Included in Totals	50.070	50.550	+ 0.48
Toxic Non-VOC Compounds	2.672	2.672	-

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Tuesday, January 13, 2009.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The application, proposed Part 70 air operating permit minor modification and renewal and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov**.

An additional copy may be reviewed at Winn Parish Library, Dodson Branch, 206 East Gresham Street, Dodson, LA..

Inquiries or requests for additional information regarding this permit action should be directed to Dustin Duhon, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3057.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmaillistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 4294, Permit Number 3240-00010-V6, and Activity Number PER20070004.

Publication date: December 10, 2008

PPM

TITLE V MINOR PERMIT MODIFICATION APPLICATION

WEYERHAEUSER COMPANY
DODSON DIVISION

AGENCY INTEREST NO. 4294

PPM PROJECT NO. 188209

OCTOBER 2007

PPM Consultants, Inc.

Department of Environmental Quality
Air Quality Division
P.O. Box 4313
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LOUISIANA

SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
042	Emission and Production Cap for Dry Kilns 1, 2, & 3	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529608 mE Vertical coordinate 3553215 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft^2) [ ] ft [ ] ft^2	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	NA	NA	NA	NA	NA	NA	NA

Fuel

Type of fuel used and heat input (see instructions)	Type of fuel	Heat input(MMBtu/hr)
a	NA	
b		
c		

Operating Characteristics

Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
25	25	25	25	24	7	52	187 MMBF/yr

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC	000	0.0%	77.55		339.69	3		ppm by volume
Formaldehyde	000	0.0%	2.84		12.44	3		ppm by volume
Methanol	000	0.0%	5.12		22.44	3		ppm by volume

Note: Emissions from Dry Kiln #1 (033), Dry Kiln #2 (034), and Dry Kiln #4 (035) are capped under this emissions source.

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Emission Inventory Questionnaire (EIQ)
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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
033	Dry Kiln #1	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529608 mE; Vertical coordinate 3553215 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard cu (ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	24	(4) 2.3 ☒ ft ☐ ft²	166	7,200	5.7	NA	NA

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	Steam	NA		25	25	25	25	24	7	52	NA
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC	000	0.0%		62.38		1		ppm by volume
Formaldehyde	000	0.0%		2.28		1		ppm by volume
Methanol	000	0.0%		4.12		1		ppm by volume

Note: Emissions from this source are capped under Emission and Production Cap for Dry Kilns 1, 2, & 3 (Source 042).

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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
034	Dry Kiln #2	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529592 mE; Vertical coordinate 3553209 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft^2)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	24	(4) 2.3 ☒ ft ☐ ft^2	166	7,200	5.7	NA	NA

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	Steam	NA		25	25	25	25	24	7	52	NA
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC	000	0.0%		62.38		1		ppm by volume
Formaldehyde	000	0.0%		2.28		1		ppm by volume
Methanol	000	0.0%		4.12		1		ppm by volume

Note: Emissions from this source are capped under Emission and Production Cap for Dry Kilns 1, 2 & 3 (Source 042).

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Emission Inventory Questionnaire (EIQ)
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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
035	Dry Kiln #3	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529568 mE; Vertical coordinate 3553198 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	24	(5) 2.3 ☒ ft ☐ ft²	166	10,000	6.3	NA	NA

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	Steam	NA		25	25	25	25	24	7	52	NA
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC	000	0.0%		69.87		1		ppm by volume
Formaldehyde	000	0.0%		2.56		1		ppm by volume
Methanol	000	0.0%		4.62		1		ppm by volume

Note: Emissions from this source are capped under Emission and Production Cap for Dry Kilns 1, 2, & 3 (Source ID 042).

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE
Emission Inventory Questionnaire (EIQ)
for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
036	Green End Fugitive Emissions	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529568 mE; Vertical coordinate 3553198 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	NA	NA ☐ ft ☐ ft²	NA	NA	NA	NA	133,000 tpy

Fuel	Type of fuel used and heat input (see instructions)			Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
		Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
	a	NA										133,000 tpy
	b											
	c				25	25	25	25	24	7	52	

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	000	0.0%	0.371	0.738	1.62	3		gr/std ft³

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Louisiana Department of Environmental Quality

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
037	Dryer Fugitives	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529245 mE; Vertical coordinate 3553991 mN

Stack and Discharge Physical Characteristics (Change_yesXno)	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	N/A	N/A [ ] ft [ ] ft²	N/A	N/A	N/A		

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
		Type of fuel	Heat input(MMBtu/hr)	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
	a	N/A		25	25	25	25	24	7	52	280 MMSF/yr
	b										
	c										

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	000	0.0%	0.20	0.32	0.90	3, 4		gr/std ft³
Sulfur Dioxide	000	0.0%	0.003	0.005	0.01	3, 4		ppm by volume
Nitrogen Oxides	000	0.0%	0.46	0.76	2.03	3, 4		ppm by volume
Carbon Monoxide	000	0.0%	0.39	0.64	1.70	3, 4		ppm by volume
Total VOC	000	0.0%	4.82	7.56	21.11	3, 4		ppm by volume
Formaldehyde	000	0.0%	0.16	0.25	0.70	3, 4		ppm by volume

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
038	Clipper Diverter Cyclone	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate mE Vertical coordinate mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft^2)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	21	3.33 [X] ft [ ] ft^2	Ambient				

Fuel	Type of fuel used and heat input (see instructions)			Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
		Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
	a	N/A			25	25	25	25	24	7	52	
	b											
	c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	008	95.0%	0.07	0.66	0.29	4		gr/std ft^3

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Louisiana Department of Environmental Quality

Company Name	Plant Location and name (If any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
039	Fugitive Ink Emissions	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate NA mE Vertical coordinate NA mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	NA	NA [ ] ft [ ] ft²	NA	NA	NA		

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat Input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	N/A			25	25	25	25	24	7	52	
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC	000	0.0%	0.34	0.43	1.51	2		ppm by volume

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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
040	Steamvat Emissions	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529458 mE Vertical coordinate 3553554 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft^2)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	NA	NA [ ] ft [ ] ft^2	NA	NA	NA		

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
		Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
	a	N/A			25	25	25	25	24	7	52	
	b											
	c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC	000	0.0%	2.21	4.59	9.68	3		ppm by volume
Acetaldehyde	000	0.0%	0.13	0.28	0.59	3		ppm by volume
Methanol	000	0.0%	0.21	0.43	0.91	3		ppm by volume

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
041	Lathe Emissions	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529419 mE; Vertical coordinate 3553572 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	NA	NA [ ] ft [ ] ft²	NA	NA	NA		

Fuel

Type of fuel used and heat input (see instructions)	Type of fuel	Heat input(MMBtu/hr)
a	N/A	
b		
c		

Operating Characteristics

Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
25	25	25	25	24	7	52	

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC	000	0.0%	2.75	4.24	16.01	3		ppm by volume
Acetaldehyde	000	0.0%	0.03	0.05	0.17	3		ppm by volume
Methanol	000	0.0%	0.38	0.59	2.23	3		ppm by volume
Formaldehyde			0.01	0.02	0.06			

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (If any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
032	Press Vents	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529293 mE; Vertical coordinate 3554015 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	37	(2) 3 [X] ft [ ] ft²	95	6,020	15.2		250 MMSF/yr

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
		Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
	a	NA			25	25	25	25	24	7	52	
	b											
	c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC		0.0%	7.56	15.70	33.11	1		ppm by volume
Formaldehyde		0.0%	0.03	0.05	0.11	1		ppm by volume
Methanol		0.0%	1.31	2.73	5.75	1		ppm by volume

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Company Name	Plant Location and name (If any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
030	RTO/RCO	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529245 mE; Vertical coordinate 3553991 mN

Stack and Discharge Physical Characteristics (Change_yesXno)	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	45	5 ☒ ft ☐ ft²	400	36,960	31.38		

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input (MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	Natural Gas	4		25	25	25	25	24	7	52	280 MMSF/yr
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	000	0.0%	2.05	3.21	8.96	3		gr/std ft³
Nitrogen Oxides	000	0.0%	9.92	12.91	43.47	4		ppm by volume
Carbon Monoxide	000	0.0%	11.95	14.46	52.34	4		ppm by volume
Sulfur Dioxide	000	0.0%	0.03	0.05	0.12	3		ppm by volume
Total VOC	099	90.0%	4.82	7.56	21.11	1		ppm by volume
Formaldehyde	099	80.0%	0.32	0.50	1.40	1		ppm by volume

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
017	Wood-Fired Boiler	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529455 mE; Vertical coordinate 3553328 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft^2)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Operating rate (Max) or tank capacity
	72	4 ☒ ft ☐ ft^2	340	110,000	146	187,499 lb/hr

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
		Type of fuel	Heat input(MMBtu/hr)	Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
	a	Wood/Bark	291.41	25	25	25	25	24	7	52	150,000 lb/hr
	b										
	c										

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	001&010	99.9%	4.47	5.83	19.58	1		gr/std ft^3
Sulfur Dioxide	000	0.0%	5.59	7.29	24.48	3		ppm by volume
Nitrogen Oxides	000	0.0%	38.12	49.69	166.94	1	C	ppm by volume
Carbon Monoxide	000	0.0%	97.65	191.58	427.69	1		ppm by volume
Total VOC	000	0.0%	2.25	2.93	9.84	1		ppm by volume
Formaldehyde	000	0.0%	0.19	1.25	0.84	1		ppm by volume
Arsenic	000	0.0%	0.005	0.006	0.022	3		ppm by volume
Barium	000	0.0%	0.038	0.050	0.166	3		ppm by volume
Cadmium	000	0.0%	0.001	0.001	0.004	3		ppm by volume

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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Appropriate location of stack or vent (see instructions on how to determine location of area sources)
017	Wood-Fired Boiler (cont'd)	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529455 mE; Vertical coordinate 3553328 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (ft³/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	72	4 [X] ft [ ] ft²	340	110,000	146		187,499 lb/hr

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input (MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	Wood/Bark	291.41									
b											
c				25	25	25	25	24	7	52	150,000 lb/hr

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Chlorine	000	0.0%	0.177	0.230	0.774	3		ppm by volume
Chromium VI	000	0.0%	0.001	0.001	0.003	3		ppm by volume
Cobalt	000	0.0%	0.001	0.002	0.006	3		ppm by volume
Copper	000	0.0%	0.011	0.014	0.048	3		ppm by volume
Lead	000	0.0%	0.011	0.014	0.047	3		ppm by volume
Manganese	000	0.0%	0.358	0.466	1.567	3		ppm by volume
Mercury	000	0.0%	0.001	0.001	0.003	3		ppm by volume
Nickel	000	0.0%	0.007	0.010	0.032	3		ppm by volume

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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
020	Ring Debarker	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529458 mE; Vertical coordinate 3553554 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft^2)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	N/A	N/A ☐ ft ☐ ft^2	N/A	N/A	N/A		1,450M TPY

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	N/A			25	25	25	25	24	7	52	
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	000	0.0%	0.08	1.02	0.35	5		gr/std ft^3

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Emission Inventory Questionnaire (EIQ)
for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
021	Planer Mill Truck Bin Baghouse	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529557 mE; Vertical coordinate 3552999 mN

Stack and Discharge Physical Characteristics (Change_yesXno)	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	33	☐ ft 26.24 x ft²	110	54,152	34.4		

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	N/A			25	25	25	25	24	7	52	
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	018	99.9%	1.01	1.82	4.41	1		gr/std ft³

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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
027	Dry Waste System Baghouse	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529221 mE; Vertical coordinate 3554160 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft^2) ☒ ft ☐ ft^2	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	33	3.67	Ambient	46,260	73		

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	N/A			25	25	25	25	24	7	52	
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	017	99.9%	0.75	1.49	3.27	6		gr/std ft^3

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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	May 2006

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
028	Cooling Zone of Veneer Dryer #1 and #2	UTM zone no. X☐ 15 ☐ 16 Horizontal coordinate 529245 mE Vertical coordinate 3553991 mN

Stack and Discharge Physical Characteristics (Change_yesXno)	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	35	(3) 4 ☒ ft ☐ ft²	300	13,065 / 9,400	5.78 / 4.16		280 MMSF/yr

Fuel	Type of fuel used and heat input (see instructions)			Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
		Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
	a	Natural Gas	35.52		25	25	25	25	24	7	50	
	b	Steam										
	c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	000	0.0%	0.00	0.00	0.00	7	Delete	gr/std ft³
Sulfur dioxide	000	0.0%	0.00	0.00	0.00	7	Delete	ppm by vol
Nitrogen dioxide	000	0.0%	0.00	0.00	0.00	7	Delete	ppm by vol
Carbon monoxide	000	0.0%	0.00	0.00	0.00	7	Delete	ppm by vol
Total VOC (including those below)	000	0.0%	0.00	0.00	0.00	7	Delete	ppm by vol
Formaldehyde	000	0.0%	0.00	0.00	0.00	7	Delete	ppm by vol

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
043	Cooling Zones of Veneer Dryer #1	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529245 mE; Vertical coordinate 3553991 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	35	(3)4 [X] ft [ ] ft²	300	13,065	5.78	NA	27.38

Fuel — Type of fuel used and heat input (see instructions)

	Type of fuel	Heat input(MMBtu/hr)
a	Natural Gas	35.52
b	Steam	
c		

Operating Characteristics

Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
25	25	25	25	24	7	52	N/A

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM10)	000	0.0%	---	1.51	---	3		gr/std ft3
Sulfur dioxide	000	0.0%	---	0.00	---	3		ppm by vol
Nitrogen dioxide	000	0.0%	---	0.43	---	3		ppm by vol
Carbon monoxide	000	0.0%	---	0.36	---	3		ppm by vol
Total VOC (including those below)	000	0.0%	---	2.28	---	1		ppm by vol
Formaldehyde	000	0.0%	---	0.01	---	1		ppm by vol

Note: Cooling Zones Emissions from Veneer Dryers #1 and #2 are capped under a single emission point (Source 045 - Veneer Dryers Cooling Zones Cap).

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
044	Cooling Zones of Veneer Dryer #2	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529245 mE; Vertical coordinate 3553991 mN

Stack and Discharge Physical Characteristics (Change_yesXno)	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	35	(3)4 [X] ft [ ] ft²	300	9,400	4.16	NA	22.75

Fuel — Type of fuel used and heat input (see instructions)

	Type of fuel	Heat input(MMBtu/hr)
a	Natural Gas	124
b		
c		

Operating Characteristics

Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
25	25	25	25	24	7	52	N/A

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM10)	000	0.0%	---	1.34	---	3		gr/std ft3
Sulfur dioxide	000	0.0%	---	0.01	---	3		ppm by vol
Nitrogen dioxide	000	0.0%	---	1.47	---	3		ppm by vol
Carbon monoxide	000	0.0%	---	1.24	---	3		ppm by vol
Total VOC (including those below)	000	0.0%	---	1.96	---	1		ppm by vol
Formaldehyde	000	0.0%	---	0.01	---	1		ppm by vol

Note: Cooling Zones Emissions from Veneer Dryers #1 and #2 are capped under a single emission point (Source 045 - Veneer Dryers Cooling Zones Cap).

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SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
045	Veneer Dryers Cooling Zones Cap	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529245 mE; Vertical coordinate 3553991 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (cu ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	N/A	N/A [ ] ft [ ] ft²	N/A	N/A	N/A	NA	N/A

Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	Natural Gas	N/A		25	25	25	25	24	7	52	280 MMSF/YR
b	Steam										
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM10)	000	0.0%	1.81	---	7.95	3		gr/std ft3
Sulfur dioxide	000	0.0%	0.01	---	0.03	3		ppm by vol
Nitrogen dioxide	000	0.0%	1.16	---	5.07	3		ppm by vol
Carbon monoxide	000	0.0%	0.97	---	4.26	3		ppm by vol
Total VOC (including those below)	000	0.0%	2.70	---	11.83	1		ppm by vol
Formaldehyde	000	0.0%	0.02	---	0.07	1		ppm by vol

Note: This emissions source combines emissions from Veneer Dryer #1 and Veneer Dryer #2 into a single emission source. Stack flow and velocity can be found on the EIQ sheets for each of the Veneer Dryers.

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Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate location of stack or vent (see instructions on how to determine location of area sources)
031	Fugitive Resin Emissions	UTM zone no. ☒ 15 ☐ 16 Horizontal coordinate 529293 mE; Vertical coordinate 3553998 mN

Stack and Discharge Physical Characteristics (Change_yesXno)	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft²)	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (ft/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	N/A	☐ ft ☐ ft²	N/A	N/A	N/A		250 MMSF/yr

Fuel

Type of fuel used and heat input (see instructions)	Type of fuel	Heat input (MMBtu/hr)
a	N/A	
b		
c		

Operating Characteristics

Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wks/yr	
25	25	25	25	24	7	52	

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Total VOC		0.0%	0.54	6.22	2.36	4		ppm by volume
Formaldehyde		0.0%	0.24	3.11	1.05	4		ppm by volume
Phenol		0.0%	0.30	3.11	1.31	4		ppm by volume

TITLE V MINOR PERMIT MODIFICATION APPLICATION

WEYERHAEUSER COMPANY DODSON DIVISION

AGENCY INTEREST NO. 4294

PPM PROJECT NO. 188209

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APPENDICES

Appendix A Part 70 Checklist
Appendix B Addendum to Permit Application
Appendix C Air Emission Calculations
Appendix D Tanks 4.0 Program Calculations
Appendix E CAM Plan for RTO/RCO

1.0 Introduction

1.1 Background Information

The Dodson Division currently operates under Title V No. 3240-00010-V5 issued October 10, 2006, which includes the provisions of Permit PSD No. PSD-LA-627 (M-1). This air permit application is a minor permit modification that serves to address the following:

- Propose the removal of current RCO Parametric Monitoring Plan requirements and implementation of a proposed RCO Continuous Assurance Monitoring Plan that meets PCWP MACT requirements and a newly upgraded monitoring system.
- Propose a lathe optimization project to enable operational improvements for veneer peeling and general log conditioning processes. The optimization project will affect the existing green veneer manufacturing equipment including the veneer lathe, clippers, log vats, and debarker. Based on the current emission rates from this equipment and anticipated potential emissions increase, emission rates would not exceed currently permitted rates and potential emissions increases would not approach levels that would trigger a PSD review. No increase in permitted emissions is being requested with this application.
- Compliance schedule for the PCWP MACT (see Table 1 below).

TABLE 1
COMPLIANCE SCHEDULE

Evaluation of the continuous monitoring alternatives	October 31, 2007
Engineering, Design, and associated Equipment Orders placed	January 1, 2008
Progress report detailing actual dates of previous milestones and projection of anticipated future milestones. Reasons for any missed dates or anticipated missed dates shall be included as necessary	January 4, 2008
Installation of the data acquisition system	April 1, 2008
Implementation of the Startup, Shutdown, and Malfunction Plan	March 1, 2008
Startup and commissioning of equipment	April 1, 2008
Compliance Performance Test	July 1, 2008

This submittal is organized into the following sections -

- Section 1.0 Background Information, Facility Location and Overview
- Section 2.0 Written Process Description and Process Flow Diagrams
- Section 3.0 Emissions Calculation Methodology and Maintenance/Insignificant Activities
- Section 4.0 Regulatory Analysis, Permit Shield, Compliance History, Louisiana Air Toxics Program and Compliance Assurance Monitoring Program
- Section 5.0 LDEQ Application for Approval of Emissions of Air Pollutants (AAEAP), Emission Inventory Questionnaire (EIQ) for Air Pollutants, and Single Point EIQ sheets

1.2 Facility Location and Overview

Weyerhaeuser owns and operates a plywood and lumber manufacturing plant (SIC 2436 and 2421) in Winn Parish. The facility, henceforth referred to as the Dodson Division, is located on a 130-acre site, on U.S. Highway 167, 2 miles north of Dodson, Louisiana, where it currently produces veneer, plywood, and lumber from southern yellow pine (SYP) logs. A site location map depicting the physical location is presented as **Figure 1**. A plot plan of the Dodson Division documenting the location of each emission source is included as **Figure 2, Site Plan**.

Facility Information:

Responsible Official:	David West (Complex Manager) (318) 628-6901
Mailing Address:	Weyerhaeuser Company Dodson Division P.O. Box 98 Dodson, Louisiana 71422

SECTION 2.0

PROCESS DESCRIPTION

2.0 Process Description

Weyerhaeuser's Dodson Division manufactures plywood and lumber from southern yellow pine (SYP) logs. **Figure 3, Sawmill and Plywood Process Flow Diagrams**, depicts detailed process flow diagrams for the lumber and plywood production operations. The following is a written description of the plywood and lumber production processes.

2.1 Raw Material Storage

Two basic raw materials are used to manufacture plywood at the Dodson Division: SYP logs and phenol-formaldehyde (PF) resin adhesive. Logs are delivered to the plant by truck in lengths of 17 to 35 feet. A portion of the SYP logs is also used for lumber production.

The PF resin is delivered by truck as a concentrated liquid and transferred into two, fixed-roof tanks located within the production building. The resin is mixed with water and dry additives according to manufacturer's specifications prior to its use during plywood lay-up.

2.2 Raw Material Preparation

Rolling stock loaders and/or a portal crane move logs from storage to the log deck for processing. The logs are debarked by separate ring debarkers at the plywood plant and sawmill. Both ring debarkers, however, are permitted as one emission point, Source 020. The ring debarkers have a total allowable throughput of 1,450,000 tons of logs per year. After debarking, the logs are steamed and then chain-conveyed to saws where they are cut into green veneer and lumber of various lengths and sizes. The production of green veneer is typically referred to as green end production. Green veneer is used in the manufacture of plywood, and sold and/or shipped off-site. The sawdust and bark produced during the debarking and sawing processes are chopped or hogged and chain-conveyed to the fuel house for use as fuel in the wood-fired boiler. The left over pieces of logs are chipped and sold for the manufacture of paper or conveyed to the fuel storage area for use in the wood-fired boiler.

2.3 Plywood Production

The plywood plant at the Dodson Division is currently permitted to produce as much as 250 MMSF of plywood per year (3/8" basis). This is accomplished through the process of veneer drying, panel lay-up pressing, and plywood finishing.

2.3.1 Veneer Drying

Veneer is dried in one of two existing veneer dryers. During operations, veneer is hand-fed into the dryer and slowly conveyed through the dryer by a drive assembly. Drying times vary depending upon the thickness of the veneer. The dryers lower the moisture content of the veneer to an average of 8 to 25 percent.

2.3.2 Panel Lay-up

Veneer exiting the dryers is either stored for a short period prior to assembly into plywood on the lay-up line or sent directly to the lay-up line. During the lay-up process, plies of veneer are assembled layer by layer, with an application of glue between each ply. The resin utilized at the Dodson Division is a phenol-formaldehyde (PF) formulation, which results in fugitive emissions.

2.3.3 Panel Pressing

Following lay-up, the assembled panels of plywood are stacked and prepared for pressing. Each stack is compressed for a short period in a pre-press and then manually loaded sheet by sheet into one of two steam-heated hot presses. The presses have a capacity of 36 panels.

Heat and pressure, which cure the resin and cause the plies to bond together, are applied during the four to six-minute press cycle. VOCs, including formaldehyde and methanol, are emitted during pressing operations and dispersed through gable vents in the roof over the presses.

2.3.4 Plywood Finishing

The plywood is then trimmed to its final dimensions of 4-feet by 8-feet. Waste material from the trimming operations is pneumatically transferred to the Dry Waste Baghouse (Source 027).

2.4 Lumber Production

The Dodson Division is currently permitted at 187 MMBF/year, independent of plywood production.

2.4.1 Dry Kilns

After debarking, logs are processed into various lengths and grades of one-inch and two-inch thick lumber depending on market conditions and optimum utilization programming. The lumber is then sorted and stacked according to its dimensions, loaded onto kiln cars, rolled into one of the three steam-heated dry kilns and dried for 18 to 25 hours.

2.4.2 Planer Mill

After drying, the lumber is cooled, planed, and trimmed to final dimensions. The permitted throughput limit of the planer mill is 332.5 MMBF per year, which allows Dodson to plane lumber manufactured on-site as well as debarked wood shipped from another site. Dodson controls particulate matter (PM) emissions generated during planning operations via Source 021, Planer Mill Truck Bin Baghouse. The residual wood generated during planing is either sold as a raw material for other wood products or burned on-site in the wood-fired boiler (Source 017).

2.5 Wood-Fired Boiler

Steam for veneer and lumber drying and pressing operations is produced on-site in a wood-fired boiler (Source 017). The boiler is permitted to produce 150,000 pounds of steam per hour and is equipped with an electrostatic precipitator (ESP) for PM/metals control. Fuel for the boiler consists of bark and wood fragments from the log yard, sawdust, and plywood fragments generated at the facility.

3.0 Air Emission Calculations

Air emissions from the Dodson Division result from the following processes that occur during the manufacturing of lumber and plywood: debarking of logs and combustion of wood (for steam production); drying and lay-up of veneer; pressing, trimming and sanding of plywood; and planing and drying of lumber. These processes emit particulate matter (PM/PM_{10}), Sulfur Dioxide (SO_2), non-toxic Volatile Organic Compounds (VOCs), Carbon Monoxide (CO), Nitrogen Oxides (NO_x), Formaldehyde (HCHO), Methanol (MeOH), Phenol and minor quantities of Arsenic, Barium, Cadmium, Chlorine, Chromium VI, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Benzene, Toluene, Xylene, Ethylbenzene, and n-Hexane. Air emission calculations for each emission source are included in **Appendix A** and **Appendix B**. Emission point sources included in this Title V application are listed below in **Table 1, Emission Source Summary**.

Plywood production is quantified on a 3/8" basis, meaning all production, regardless of actual thickness, is expressed as an equivalent square footage of 3/8" plywood. For example, one square foot of 3/4" plywood is equivalent to two square feet of plywood on a 3/8" basis. Similarly, one square foot of 1/2" plywood is equivalent to 1.33 square feet on a 3/8" basis. Expression of production in terms of one plywood thickness (3/8") is an industry standard, which provides a manageable means of production accounting. Square footage of plywood mentioned without qualification is always assumed to be on a 3/8" basis. Lumber production is quantified in board feet, a unit of wood with dimensions of 1-foot by 1-foot by 1-inch.

The following abbreviations are used throughout the application and calculations:

SF, or SF, 3/8	Square feet plywood, 3/8" basis
MSF, 3/8	1000 square feet plywood, 3/8" basis
MMSF, 3/8	One million square feet plywood, 3/8" basis
MSF, surface	1000 square feet plywood, surface basis
BF	Board feet
MBF	1000 board feet
Btu	British Thermal Unit
MMBtu	One million Btu
MMBtu/hr	One million Btu/hour
lb	pound(s)
lb/hr	pounds per hour
lb steam/hr	pounds of steam per hour
lb/MSF	pounds per 1000 square feet plywood, 3/8" basis
ton	ton(s)
tpy	tons per year
HCHO	Formaldehyde
MeOH	Methanol
SCF	Standard Cubic Feet
MMSCF	One million standard cubic feet
[ ]	Descriptive comments in calculations are enclosed in square brackets
_____	Underlined numbers are the values used in the point source EIQ pages.

TABLE 2
EMISSION SOURCE SUMMARY
WEYERHAEUSER COMPANY – DODSON DIVISION

Source ID	TEMPO ID No.	Source Description
Source 008	EQT 005	Green End Core Sawdust Cyclone
Source 017	EQT 006	Wood-Fired Boiler
Source 020	EQT 007	Ring Debarker
Source 021	EQT 008	Planer Mill Truck Bin Baghouse
Source 027	EQT 011	Dry Waste System Baghouse
Source 030	EQT 013	RTO/RCO
Source 031	FUG 001	Fugitive Resin Emissions
Source 032	EQT 014	Plywood Presses
Source 033	EQT 015	Dry Kiln #1
Source 034	EQT 016	Dry Kiln #2
Source 035	EQT 017	Dry Kiln #3
Source 036	FUG 002	Green End Fugitive Emissions
Source 037	FUG 003	Veneer Dryer Fugitives
Source 038	EQT 018	Clipper Diverter Cyclone
Source 039	FUG 004	Fugitive Ink Emissions
Source 040	EQT 019	Steamvat Emissions
Source 041	EQT 020	Lathe Emissions
Source 042	GRP 001	Emissions & Production Cap for Dry Kilns 1,2 & 3
Source 043	EQT 022	Cooling Zone of Veneer Dry #1
Source 044	EQT 023	Cooling Zone of Veneer Dry #2
Source 045	GRP 004	Veneer Dryers Cooling Zones Cap

Each process having emissions and the permitted emission points are discussed below. Detailed emission calculations are also provided. Locations of each source are discussed below.

3.1 Ring Debarker

The first steps in manufacturing lumber and plywood from SYP logs are to remove the bark and steam the logs. The logs are transferred from the log storage area to the debarker in-feed deck. Separate ring debarkers are located at the plywood plant and sawmill, however, both debarkers are permitted as one emission point, Source 020. Dodson is currently permitted to debark 1,450,000 tons of logs per year. The bark generated from the debarking operations is used as fuel for the wood-fired boiler. Debarking operation emission estimates for PM/PM_{10} emissions are based on AP-42 (Section 10.3.3 - Plywood Veneer and Layout Operations, 2/80) emission factors.

3.2 Steamvats

The steamvats are used to soften the logs prior to being peeled at the lathe. These emissions Source 040) are based on AP-42 (Section 10.5 – Plywood Manufacturing).

3.3 Lathe

Lathe emissions (Source 041) are based on AP-42 (Section 10.5 Plywood Manufacturing). After the logs exit the steamvats they pass through the lathe. This produces green veneer which is used in the manufacture of plywood. Green veneer can also be stored on-site, sold and/or shipped off-site.

This application proposes a lathe optimization project to enable operational improvements for veneer peeling and general log conditioning processes. The optimization project will affect the existing green veneer manufacturing equipment including the veneer lathe, clippers, log vats, and debarker. As mentioned in Section 1.1, emissions rates would not exceed currently permitted rates and would not approach levels that would trigger a PSD review. scanner + software

3.4 Green End Fugitives

Green End Fugitive Emissions (Source 036) consist of emissions from mechanical conveyance and chipping and hogging of residual wood and veneer fragments. Emission estimates are based on AP-42 (Section 13.2.4, Miscellaneous Sources, Aggregate Handling and Storage Piles, January, 1995).

3.5 Steam Generation

Steam, which is used for veneer and lumber drying and pressing operations, is produced in a 150,000 lb steam/hr wood-fired boiler (Source 017). The woodwaste generated at the plant includes bark and wood fragments from the log yard, sawdust, plywood fragments, and planer shavings. The wood-fired boiler is equipped with an electrostatic precipitator (ESP) for particulate matter and metals control. Particulate emissions from the wood-fired boiler are much lower than the 0.10 lb PM/MMBtu performance standard as required by 40 CFR 60.43b.

Emissions of PM/PM_{10}, VOC, NO_x, HCHO, and CO are based on stack test data, while the emission estimates for SO_2 and metals are based on AP-42 emission factors for wood-fired boilers (Section 1.6 - Wood Residue Combustion In Boilers, 3/02). The boiler is currently permitted at its maximum firing rate, except for the emission of HCHO and CO. Data from the stack tests performed on the boiler under low steam demand have been previously incorporated into the permit.

3.6 Plywood/Lumber Emission Sources

Plywood/lumber emission sources include the plywood presses, veneer dryers, drying kilns, and fugitive resin emissions.

3.6.1 Plywood Production

Veneer Dryers

The Dodson plant has two veneer dryers, one heated with a combination of steam and natural gas, and the other with natural gas only. Veneer Dryer #1 is a 24-section steam/gas-heated dryer, and Veneer Dryer #2 is an 18-section dryer heated with natural gas. The dryers each have four drying zones followed by a cooling zone at the end of the dryer. The drying and cooling zones are constructed as a continuous unit, without interruptions from zone to zone. The drying zones are heated by steam coils and/or natural gas burners. The exhaust from the hot zones of the dryers is ducted to the RTO/RCO (Source 030), for the destruction of VOCs and TAPs.

The cooling zone consists of a chamber through which ambient air is continuously circulated to cool the veneer. In the previous permit, Source 028 was deleted and a production and emissions cap (Source 045) was put in for veneer dryer #1 and #2 cooling zones. In addition, two separate sources (Source 043 and Source 044) were added to account for maximum hourly emissions from these sources.

Fugitive veneer dryer emissions are presented as Source 037. Fugitives are conservatively calculated to be 10% of pre-control emissions from the veneer dryers heating zones.

The emissions produced from the wood during veneer drying include PM_{10}, VOC, and small quantities of formaldehyde. Emissions from the combustion of natural gas include PM_{10}, CO, NO_x, SO_2, and VOC.

VOC emission tests were conducted on the hot zones of six veneer dryers at three Weyerhaeuser facilities in the fall of 1994. An average VOC emission factor of 1.45 lb VOC/MSF was established. Formaldehyde was observed to be emitted at a rate of 0.05 lb HCHO/MSF. The stack test reports for these tests were submitted to LDEQ in April 1995 and have been reviewed by Mr. Jim Courville.

NO_x, CO, SO_2, VOC, and PM_{10} combustion pollutant emission estimates are based on AP-42 emission factors (1.4 - Natural Gas Combustion, 7/98). Emissions for the veneer dryer cooling zones (Source 043 and 044) are based on stack test data conducted on the exhausts of the veneer dryer cooling zones at Weyerhaeuser's Emerson Division in April 1998. As mentioned earlier, emissions for the veneer dryer fugitives are based on 10% of the pre-controlled emissions from the veneer dryers.

RTO/RCO (Source 030)

Emissions at the inlet of the RTO/RCO are conservatively estimated to be 100% of the current permitted values of the veneer dryers, including the emissions from the cooling zones. The cooling zones, as noted earlier, will not be controlled by the RTO/RCO but will continue to be exhausted from the permitted ducts (Source 043 and 044).

A destruction rate efficiency (DRE) of 90% is assumed for the VOCs, while the DRE for the TAPs is assumed to be 80%.

Pressing Operations (Source 032)

Following the application of resin and assembly of the veneer layers on the lay-up line, the plywood is pressed under high temperature (300° F) and pressure (200 psi) in one of two existing steam-heated presses (Source 032). Pressing activates and cures the resin, resulting in bonding of the veneer layers. Emissions from the presses are based on the production of 250 MMSF/yr (3/8" basis).

In March 1995, press stack tests were conducted at two Weyerhaeuser plants having ventilation fans in the press area. The fans were fitted with stacks to allow emission sampling. The tests indicated that 0.25 lb VOC/MSF and 0.0009 lb HCHO/MSF were emitted during pressing operations. In December 1995, Weyerhaeuser performed stack testing at its Taylor Division to quantify methanol emissions generated during pressing operations. The results of these tests indicate an emission rate of 0.046 lb MeOH/MSF from pressing operations. These emission factors are the basis for the calculations of emissions from pressing operations.

Fugitive Resin Emissions (Source 031)

When resin is manufactured, a small amount of free (chemically unbound) formaldehyde and phenol is present in the resin. Typically the resin contains less than 0.0002 (fractional basis) free

formaldehyde, and less than 0.00025 (fractional basis) free phenol. Tests conducted to evaluate the extent and rate of phenol and formaldehyde evolution suggest that the concentrations of each do not change readily or to a significant extent during resin storage and application processes. Resin-based formaldehyde and phenol emissions are thus believed to be minimal. For emission inventory purposes, however, it is being estimated that 50% of the free formaldehyde and phenol is liberated from the resin during storage and application to the plywood veneer on the lay-up line.

Fugitive Ink Emissions (proposed Source 039)

Inks are used to label and grade the final products prior to shipping. The inks used have small quantities of VOCs. Therefore, Weyerhaeuser has included the fugitives from inks as Source 039.

3.6.2 Lumber Production

Dry Kilns

The Dodson Division's sawmill converts logs into various lengths and grades of one-inch and two-inch thick lumber. After the logs are sawn, the green lumber is stacked on kiln cars, rolled into one of the plant's steam-heated dry kilns, and dried for 18 to 25 hours, depending on lumber thickness. Drying takes place in the steam-heated dry kilns, identified as Dry Kilns #1, #2, and #3 (Sources 033, 034, and 035, respectively). An emissions and production cap (Source 042) is in place for the three dry kilns.

During the drying cycle, heat and moisture are vented through hinged roof-mounted vents. The emissions from lumber drying include VOC and small quantities of formaldehyde. VOC emissions are estimated using factors established from dry kiln stack tests conducted at the Dodson facility in November 1994 for southern yellow pine. A VOC emission factor of 3.5 lb/MBF was determined in this test. Formaldehyde emissions are estimated using factors from veneer dryer tests, scaling up the 3/8" veneer thickness factor (0.05 lb/MSF) to the 1" lumber factor (0.133 lb/MBF).

3.7 Residual Woodwastes Processing and Transfer

As shown on the Process Flow Diagram, residual wood and veneer fragments, planer shavings, sawdust, and plywood trim are generated throughout the lumber and plywood manufacturing process. The wood residuals are conveyed by belt, chain, or air duct to storage areas or bins. Air-conveyed residuals are separated from the air stream with cyclones.

Emission sources in the residual wood processing operations include the Green Ends Core Sawdust Cyclone (Source 008), Planer Mill Truck Bin Baghouse (Source 021), Dry Waste System Baghouse (Source 027), the Green End Fugitives (Source 036) and the Clipper Diverter Cyclone (Source 038).

3.8 Maintenance Activities/Insignificant Activities

The emission sources listed in this section are defined as insignificant activities on the basis of size, emission or production rate, or the type of pollutant. Some activities need not be included in the permit application:

- LAC 33:III.501B.5(A.2) - Storage tanks less than 250 gallons storing organic liquids having a true vapor pressure less than 3.5 psia, provided that the aggregate emissions from all such organic liquid storage tanks listed as insignificant do not exceed five tons per year, do not exceed any Minimum Emission Rate listed in LAC 33:III.Chapter 51, Table 51.1, and do not exceed any hazardous air pollutant de minimis emission rate established pursuant to section 112(g) of the Federal Clean Air Act.

- Three150-gallon lube oil tanks
- One 110-gallon diesel tank

As documented in **Appendix C**, emissions from the above tanks do not exceed 5 tpy or exceed any MER listed in Chapter 51.

- LAC 33:III.501B.5(A.3) - Storage tanks less than 10,000 gallons storing organic liquids having a true vapor pressure less than 0.5 psia, provided that the aggregate emissions from all such organic liquid storage tanks listed as insignificant do not exceed five tons per year, do not exceed any Minimum Emission Rate listed in LAC 33:III.Chapter 51, Table 51.1, and do not exceed any hazardous air pollutant de minimis emission rate established pursuant to section 112(g) of the Federal Clean Air Act.

  - Three 280-gallon lube oil tanks
  - Two 6,000-gallon diesel tank
  - One 500-gallon diesel tank
  - One 3,000-gallon lube oil tank
  - One 500-gallon lube oil tank
  - One 1,000-gallon waste oil tank
  - Two 500-gallon waste oil tank
  - Two 6,000-gallon resin tanks
  - (5) 250-gallon lube oil tanks
  - (1) 1,000-gallon lube oil tank

As documented in **Appendix C**, emissions from the above tanks do not exceed 5 tpy or exceed any MER listed in Chapter 51.

- LAC 33:III.501B.5(A.4) - Emissions from caustic storage tanks which contain no VOC:

  - One 6,000-gallon caustic (sodium hydroxide) tank
  - One 1,000-gallon caustic (sodium hydroxide) tank

- LAC 33:III.501B.5(A.5) – External combustion equipment with a design rate of less than 1 MMBtu per hour. The 208 HP Diesel Fire Pump is only 0.53 MMBtu/hr. As documented in **Appendix C**, emissions from the pump do not exceed 5 TPY.

- LAC 33:III.501.B.5(B.8) - Emissions from storage or use of water-treating chemicals, except for toxic air pollutants as listed in Table 51.1 or 51.3 of LAC 33:III.Chapter 51, or pollutants listed under regulations promulgated pursuant to section 112(r) of the Federal Clean Air Act, for use in cooling towers, drinking water systems, boilerwater/feedwater systems:

  - Numerous Additive Tanks - Additive tanks contain polymers, corrosion inhibitors, and caustic to treat the boiler feed water. Additives are stored in sealed containers and thus TAP emissions are considered negligible.

- LAC 33:III.501.B.5.D.a-c – Exemptions based on Emissions Level

  - Two 250-gallon gasoline storage tanks*

* A second case by case notification was submitted previously for one of the two identical storage tanks.

- Other – Miscellaneous building fans used to increase the flow of fresh air within the production areas. These fans are classified as insignificant sources, because the emissions are negligible.

    - 12 Ventilation Fans in the Dry End Building
    - 5 Ventilation Fans in the Green End Building
    - 11 Ventilation Fans in the Lumber Mill Green End Building
    - 4 Ventilation Fans in the Planer Mill (Lumber Dry End) Building
    - One Ventilation Fan in the Boiler Building

Heaters having a heat input of less than 1 MMBtu/hr are also considered insignificant sources, because the emissions are negligible.

- Two 0.99 MMBtu/hr heaters in the veneer hot room

4.0 Regulatory Requirements

4.1 Regulatory Analysis

In order to meet the requirements of a complete Part 70 operating permit application, Weyerhaeuser has included a citation and description of all applicable Louisiana and federal air quality requirements and standards which apply to each source in Section 5 of the Application for Approval of Emissions of Air Pollutants (AAEAP). A list of all monitoring, recordkeeping, and method of compliance for each applicable regulation can also be found in Section 5.

The modifications associated with the proposed projects will not trigger any new regulatory requirements for any existing source.

4.2 Permit Shield

Weyerhaeuser is requesting a permit shield in this application. A permit shield provides an "enforcement shield" which protects the facility from enforcement actions for violations of applicable federal requirements. This is intended to protect Weyerhaeuser from liability for violations if the application does not accurately reflect the applicable federal requirement.

Weyerhaeuser also acknowledges that requesting the permit shield does not affect enforcement or compliance determinations or liability for any activity or violations of applicable requirements prior to or at the time of the permit issuance.

4.3 Compliance History

In accordance with LAC 33:III.517.D.2, Dodson has recently reviewed its compliance history. As noted in Table 4-1, five enforcement actions have been issued since 1998.

The two enforcement actions concerning the wood-fired boiler (Source 017) were resolved, however, two additional enforcement actions remain active. In addition, the Dodson Division is currently operating under the June 2000 US EPA Consent Decree, which stipulates, among other items, the installation of pollution control devices on the hot zones of the veneer dryers.

A response to the October 28, 1999 Notice of Violation for issues concerning the documentation of opacity readings on various sources has been submitted to the Office of Environmental Compliance, however, to date no response from the state has been received.

On November 30, 2000, the Dodson Division self-reported exceedances in the max hourly permitted emissions for the press vent and the veneer dryers. This issue was resolved with the issuance of permit No. 3240-00010-V3 on January 7, 2002. Issuance of the permit will resolve the issue regarding the exceedances in max hourly production for the press vent and veneer dryers.

TABLE 3
DODSON COMPLIANCE HISTORY

Notice Type	Date	Violation	Action Required	Status
Compliance Order	06/26/98	Boiler Emissions	Preparation of Corrective Action	Resolved
Compliance Order	09/23/98	Boiler Emissions	Emissions Testing	Resolved
Notice of Violation	10/28/99	Documentation of Opacity	Preparation of Corrective Action	Corrective Action submitted
US EPA Consent Decree (CD)	06/00	Alleged violations to the CAA	Various requirements stipulated in the CD	Resolved
Self Disclosure	11/30/00	Max Hourly Production Exceedances for Press and Veneer Dryers	Modification of Title V Permit	Resolved

4.4 Louisiana Air Toxics Program

The Dodson Division is a major source of Louisiana Toxic Air Pollutants (TAPs). The facility will continue to comply with all applicable provisions of the Louisiana Air Toxics Program regarding these compounds.

4.5 Compliance Assurance Monitoring (CAM) Program

A review of all emission sources with pollution control equipment at the Dodson Division was performed to determine the applicability of the Compliance Assurance Monitoring Program (40 CFR 64). The following emission sources have a pre-control emission rate of a pollutant over 100 tons/year and were determined to require a CAM Plan:

017 Wood-Fired Boiler
021 Planer Mill Truck Bin Baghouse;
027 Dry Waste System Baghouse; and
030 RTO/RCO

The CAM plan addresses the monitoring required to demonstrate compliance with federally enforceable permit limits or standards. The CAM plan for the RTO/RCO is being proposed for review to adhere to the PCWP MACT and associated monitoring requirements. Please note that the CAM Plan will completely replace the existing Parametric Monitoring Plan and plan requirements. The revised RTO/RCO CAM Plan is provided in **Appendix E**.

SECTION 5.0

APPLICATION FOR APPROVAL OF EMISSIONS OF AIR POLLUTANTS AND EMISSION INVENTORY QUESTIONNAIRE

Department of Environmental Quality
Air Quality Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

Application for Approval of Emissions of Air Pollutants

1 Please Type or Print

Company Name: Weyerhaeuser Company

Parent Company (if Company Name given above is a division):

Plant name (if any): Dodson Division

Nearest town: Dodson, Louisiana

Parish where located: Winn

For Permit Section Use Only

2 PROPOSED ACTION Give a brief description of proposed action. Attach flow diagrams, illustrations required to convey an understanding.

This air permit application is a minor permit modification inlcuding an LDEQ approved MACT compliance schedule. The RCO CAM Plan has been revised to address the PCWP MACT monitoring requirements. A lathe optimization project is also proposed to improve operational efficiencies of green veneer manufacturing.

3 OWNERSHIP AND USE OF ADJOINING PROPERTY INCLUDING PHYSICAL LOCATION X Map or description attached.

DISTANCE TO (km): Texas 128.0 Arkansas 102.5 Mississippi 156.8 Alabama 398.8

The facility is located at U.S. Highway 167 in Dodson, Louisiana. The facility is comprised of 130 acres and is located at Lattitude 32°07'10" and Longitude 92°41'16" in Winn Parish. The adjoining property is forest land, which is used for timber production.

Please see Figure 1 in the permit application for a Facility Location Map.

4 TYPE OF APPLICATION

- ☐ a. Entirely new facility
- ☒ b. Modification or expansion of existing facility
- ☐ c. Reconciliation
- ☐ d. Previously grandfathered or exempted or unpermitted
- ☐ e. Part 70 Permit Renewal
- ☐ f. General Permit _____ (type)

PROJECT FEE CALCULATION: Enter fee number, permit type, production capacity/thruput, and fee amount pursuant to LAC 33:III.Chapter 2.

FEE NO.	TYPE	CAPACITY	AMOUNT
0270	Minor Mod	N/A	$1,513

5 KEY DATES

Estimated date construction will commence: N/A

Estimated date operation will commence: N/A

Note: A completed Emission Inventory Questionnaire (EIQ) that reflects projected emissions from your facility as a whole after the project described in this application becomes operational must be submitted with this application. If you are submitting an application that is for modification or expansion of an existing facility, the Department of Environmental Quality must also have an EIQ for existing emissions. If you have already submitted an EIQ that is on file with the Department, it may fulfill this requirement. Consult instructions for further details.

6 EMISSIONS BY POLLUTANT

List each emission from all sources. Group by pollutant PM_{10}, SO_2, NO_x, CO, VOC Toxic Air Pollutants (TAPs), non-VOC TAPs, Other VOC, non-VOC/non-TAPs, and Total VOC.Grouping by SARA VOC and SARA non-VOC is optional. Show total tons/yr for each pollutant. Consult instructions.

Emission Source ID Number	Pollutant (List individual TAPs and non-criteria hydrocarbons separately)	Permitted Emission Rate Before tons/yr	Permitted Emission Rate After tons/yr
	PM10		
008		2.30	2.30
017		19.58	19.58
020		0.35	0.35
021		4.41	4.41
027		3.27	3.27
030		8.96	8.96
036		1.62	1.62
037		0.90	0.90
038		0.29	0.29
043		—	—
044		—	—
045		7.95	7.95
TOTAL		**49.63**	**49.63**
	SO_2		
017		24.48	24.48
030		0.12	0.12
037		0.01	0.01
043		—	—
044		—	—
045		0.03	0.03
TOTAL		**24.64**	**24.64**
	NO_x		
017		160.97	160.97
030		43.47	43.47
037		2.03	2.03
043		—	—
044		—	—
045		5.07	5.07
TOTAL		**211.54**	**211.54**
	CO		
017		427.69	427.69
030		52.34	52.34
037		1.70	1.70
043		—	—
044		—	—
045		4.26	4.26
TOTAL		**485.99**	**485.99**
	Total VOC (including TAPs)		
017		9.84	9.84
030		21.11	21.11
031		2.36	2.36
032		33.11	33.11
033		—	—
034		—	—
035		—	—
037		21.11	21.11
039		1.51	1.51
040		9.68	9.68
041		16.01	16.01
042		339.69	339.69
043		—	—
044		—	—
045		11.83	11.83
TOTAL		**466.25**	**466.25**
	VOC Toxic Air Pollutants (TAPs)		
	Acetaldehyde		
040		0.59	0.59
041		0.17	0.17
TOTAL		**0.76**	**0.76**

6 EMISSIONS BY POLLUTANT

List each emission from all sources. Group by pollutant PM_{10}, SO_2, NO_x, CO, VOC Toxic Air Pollutants (TAPs), non-VOC TAPs, Other VOC, non-VOC/non-TAPs, and Total VOC. Grouping by SARA VOC and SARA non-VOC is optional. Show total tons/yr for each pollutant. Consult instructions.

Emission Source ID Number	Pollutant (List individual toxics and non-criteria hydrocarbons separately)	Permitted Emission Rate Before tons/yr	Permitted Emission Rate After tons/yr
	Formaldehyde		
017		0.84	0.84
030		1.40	1.40
031		1.05	1.05
032		0.11	0.11
033		—	—
034		—	—
035		—	—
037		0.70	0.70
041		0.06	0.06
042		12.44	12.44
043		—	—
044		—	—
045		0.07	0.07
TOTAL		**16.67**	**16.67**
	Methanol		
032		5.75	5.75
033		—	—
034		—	—
035		—	—
040		0.91	0.91
041		2.23	2.23
042		22.44	22.44
TOTAL		**31.33**	**31.33**
	Phenol		
031		1.31	1.31
TOTAL		**1.31**	**1.31**
	non-VOC TAPs		
	Arsenic		
017		0.022	0.022
TOTAL		**0.022**	**0.022**
	Barium		
017		0.166	0.166
TOTAL		**0.166**	**0.166**
	Cadmium		
017		0.004	0.004
TOTAL		**0.004**	**0.004**
	Chlorine		
017		0.774	0.774
TOTAL		**0.774**	**0.774**
	Chromium VI		
017		0.003	0.003
TOTAL		**0.003**	**0.003**
	Cobalt		
017		0.006	0.006
TOTAL		**0.006**	**0.006**
	Copper		
017		0.048	0.048
TOTAL		**0.048**	**0.048**

6 EMISSIONS BY POLLUTANT

List each emission from all sources. Group by pollutant PM_{10}, SO_2, NO_x, CO, VOC Toxic Air Pollutants (TAPs), non-VOC TAPs, Other VOC, non-VOC/non-TAPs, and Total VOC.Grouping by SARA VOC and SARA non-VOC is optional. Show total tons/yr for each pollutant. Consult instructions.

Emission Source ID Number	Pollutant (List individual toxics and non-criteria hydrocarbons separately)	Permitted Emission Rate Before tons/yr	Permitted Emission Rate After tons/yr
	Lead		
017		0.047	0.047
TOTAL		**0.047**	**0.047**
	Manganese		
017		1.567	1.567
TOTAL		**1.567**	**1.567**
	Mercury		
017		0.003	0.003
TOTAL		**0.003**	**0.003**
	Nickel		
017		0.032	0.032
TOTAL		**0.032**	**0.032**

7 HISTORY OF PERMITTED EMISSIONS

List each emission level from facility permits (for unit specific permits, the history should be for the unit of concern only). Group by permit and show totals. Include as the last entry, the total emissions following the proposed change, entering the project name for "Permit number" and date of submittal for "Date permit issued". Consult instructions.

Permit Number	Date Permit Issued	Pollutant	Permitted Emission Rate (tons/yr)
384	November 8, 1974	Particulate	12.75
Boiler Only		NOX	278.00
3240-00010-01	May 18, 1991	PM_{10}	266.90
		SO_2	7.55
		NO_x	150.89
		CO	138.30
		VOC	201.74
3240-00010-02	October 20,,1991	PM_{10}	252.26
		SO_2	7.55
		NO_x	150.89
		CO	201.74
		VOC	138.33
3240-00010-02	February 18, 1992	PM_{10}	206.25
Exemption		SO_2	7.55
		NO_x	150.89
		CO	199.50
		VOC	138.30
3240-00010-03	September 7, 1993	PM	219.57
		SO_2	7.57
		NO_x	159.07
		CO	1032.66
		VOC	143.47
3240-00010-04	February 14, 1995	PM_{10}	137.20
		SO_2	23.09
		NO_x	180.42
		CO	834.86
		VOC	143.47
3240-00010-05	June 16, 1996	PM_{10}	137.48
		SO_2	23.10
		NO_x	184.26
		CO	835.82
		VOC	404.16
		Formaldehyde	11.73
		Phenol	8.70

7 HISTORY OF PERMITTED EMISSIONS

List each emission level from facility permits (for unit specific permits, the history should be for the unit of concern only). Group by permit and show totals. Include as the last entry, the total emissions following the proposed change, entering the project name for "Permit number" and date of submittal for "Date permit issued". Consult instructions.

Permit Number	Date Permit Issued	Pollutant	Permitted Emission Rate (tons/yr)
3240-00010-06	December 20, 1996	PM_{10}	116.14
		SO_2	23.10
		NO_x	184.38
		CO	685.37
		Total VOC	406.81
		Formaldehyde	14.36
		Phenol	8.70
		Arsenic	<0.001
		Barium	0.024
		Cadmium	<0.001
		Chlorine	0.042
		Chromium VI	<0.001
		Cobalt	<0.001
		Copper	0.001
		Lead	0.016
		Manganese	0.048
		Mercury	<0.001
		Nickel	0.003
3240-00010-V0	June 5, 1997	PM_{10}	117.53
		SO_2	23.09
		NO_x	181.88
		CO	396.88
		Total VOC	413.03
		Formaldehyde	14.71
		Methanol	5.52
		Phenol	1.26
		Benzene	0.01
		Ethylbenzene	0.01
		n-Hexane	0.01
		Toluene	0.03
		Xylene	0.03
		Arsenic	<0.001
		Barium	0.24
		Cadmium	<0.001
		Chlorine	0.042
		Chromium VI	<0.001
		Cobalt	<0.001
		Copper	0.001
		Lead	0.016
		Manganese	0.048
		Nickel	0.003
		Mercury	<0.001

7 HISTORY OF PERMITTED EMISSIONS

List each emission level from facility permits (for unit specific permits, the history should be for the unit of concern only). Group by permit and show totals. Include as the last entry, the total emissions following the proposed change, entering the project name for "Permit number" and date of submittal for "Date permit issued". Consult instructions.

Permit Number	Date Permit Issued	Pollutant	Permitted Emission Rate (tons/yr)
3240-00010-V1	August 18, 1998	PM_{10}	107.61
		SO_2	23.09
		NO_x	181.88
		CO	396.88
		Total VOC	413.28
		Formaldehyde	14.97
		Methanol	5.52
		Phenol	1.26
		Benzene	0.01
		Ethylbenzene	0.01
		n-Hexane	0.01
		Toluene	0.03
		Xylene	0.03
		Arsenic	<0.001
		Barium	0.024
		Cadmium	<0.001
		Chlorine	0.042
		Chromium VI	<0.001
		Cobalt	<0.001
		Copper	0.001
		Lead	0.016
		Manganese	0.048
		Nickel	0.003
		Mercury	<0.001
3240-00010-V2	October 26, 1999	PM_{10}	85.13
		SO_2	23.09
		NO_x	181.88
		CO	432.89
		Total VOC	409.66
		Formaldehyde	14.88
		Methanol	5.52
		Phenol	1.26
		Benzene	0.003
		Ethylbenzene	0.002
		n-Hexane	0.003
		Toluene	0.01
		Xylene	0.01
		Arsenic	<0.001
		Barium	0.024
		Cadmium	<0.001
		Chlorine	0.042
		Chromium VI	<0.001
		Cobalt	<0.001
		Copper	0.001
		Lead	0.016
		Manganese	0.048
		Nickel	0.003
		Mercury	<0.001

7 HISTORY OF PERMITTED EMISSIONS

List each emission level from facility permits (for unit specific permits, the history should be for the unit of concern only). Group by permit and show totals. Include as the last entry, the total emissions following the proposed change, entering the project name for "Permit number" and date of submittal for "Date permit issued". Consult instructions.

Permit Number	Date Permit Issued	Pollutant	Permitted Emission Rate (tons/yr)
3240-00010-V3	January 7, 2002	PM_{10}	83.39
		SO_2	23.12
		NO_x	210.31
		CO	469.50
		Total VOC	414.90
		Formaldehyde	15.77
		Methanol	5.75
		Phenol	1.31
		Benzene	0.003
		Ethylbenzene	0.003
		n-Hexane	0.004
		Toluene	0.02
		Xylene	0.02
		Arsenic	<0.001
		Barium	0.024
		Cadmium	<0.001
		Chlorine	0.042
		Chromium VI	<0.001
		Cobalt	0.001
		Copper	0.001
		Lead	0.016
		Manganese	0.048
		Nickel	0.003
		Mercury	<0.001
3240-00010-V4	November 15, 2004	PM_{10}	51.74
		SO_2	24.60
		NO_x	204.34
		CO	479.87
		Total VOC	463.35
		Formaldehyde	16.53
		Methanol	31.08
		Phenol	1.31
		Acetaldehyde	0.76
		Benzene	<0.001
		Ethylbenzene	<0.001
		n-Hexane	<0.001
		Toluene	<0.001
		Xylene	<0.001
		Arsenic	0.022
		Barium	0.166
		Cadmium	0.004
		Chlorine	0.774
		Chromium VI	0.003
		Cobalt	0.006
		Copper	0.048
		Lead	0.047
		Manganese	1.567
		Mercury	0.003
		Nickel	0.030

7 HISTORY OF PERMITTED EMISSIONS

List each emission level from facility permits (for unit specific permits, the history should be for the unit of concern only). Group by permit and show totals. Include as the last entry, the total emissions following the proposed change, entering the project name for "Permit number" and date of submittal for "Date permit issued". Consult instructions

Permit Number	Date Permit Issued	Pollutant	Permitted Emission Rate (tons/yr)
3240-00010-V5	March 2006	PM_{10}	49.63
		SO_2	24.64
		NO_x	211.54
		CO	485.99
		Total VOC	466.25
		Formaldehyde	16.67
		Methanol	31.33
		Phenol	1.31
		Acetaldehyde	0.76
		Arsenic	0.022
		Barium	0.166
		Cadmium	0.004
		Chlorine	0.774
		Chromium VI	0.003
		Cobalt	0.006
		Copper	0.048
		Lead	0.047
		Manganese	1.567
		Mercury	0.003
		Nickel	0.032
3240-00010-V6	Pending	PM_{10}	427.69
		SO_2	24.64
		NO_x	211.54
		CO	485.99
		Total VOC	466.25
		Formaldehyde	16.67
		Methanol	0.77
		Phenol	1.31
		Acetaldehyde	0.76
		Arsenic	0.022
		Barium	0.166
		Cadmium	0.004
		Chlorine	0.774
		Chromium VI	0.003
		Cobalt	0.006
		Copper	0.048
		Lead	0.047
		Manganese	1.567
		Mercury	0.003
		Nickel	0.032

8 Title VI Stratospheric Ozone

A Does your facility have any air conditioners or refrigeration equipment that uses CFCs, HCFCs or other ozone-depleting substances? X yes ____ no

B Does the air conditioner or refrigeration equipment contain a refrigeration charge greater than 50 pounds? ____ yes X no

C Do your facility personnel maintain, service, repair, or dispose of any motor vehicle air conditioners (MVACs) or appliances ("appliance" and "MVAC" as defined at 40 CFR 82.152)? ____ yes X no

D Cite and describe which Title VI requirements are applicable to your facility (i.e. 40 CFR Part 82, Subpart A through G.) in the Regulatory Applicability section of the application.

NA

9 LAC 33:I.1701 Requirements

A Does the company or owner have federal or state environmental permits identical to, or of a similar nature to, the permit for which you are applying in other states? (This requirement applies to all individuals, partnerships, corporations, or other entities who own a controlling interest of 50% or more in your company, or who participate in the environmental management of the facility for an entity applying for the permit or an ownership interest in the permit.)

☒ Permits in Louisiana. List Permit Numbers: 2700-00007-V2, 1740-00015-V0

☒ Permits in other states (list states): Alabama, Georgia, Oregon, West Virginia, and Louisiana

B Do you owe any outstanding fees or final penalties to the Department? ____ yes X no
If yes, please explain.

C Is your company a corporation or limited liability company? X yes ____ no

If yes, attach a copy of your company's Certificate of Registration and/or Certificate of Good Standing from the Secretary of State.

10 EMISSION POINT LIST AND ANNUAL EMISSION RATE TABLE

Complete the following Emission Point List with the emission point number and description for each emission point. Include also, the associated operating rate or tank capacity and the operating schedule. List all Insignificant Activities under the appropriate heading. For sources claimed to be insignificant based on size or emission rate (LAC 33:III.501.B.5.A), information must be supplied to verify each claim.

Complete the following Annual Emission Rates Table by emission point ID or identifier with the annual emission rates for each appropriate pollutant. Include speciation data as available. Calculate totals for each pollutant and speciation data. List all General Condition XVII Activities under the appropriate heading. Emissions must be listed for each activity. Do not include emissions from General Condition XVII Activities in the totals.

11 APPLICABLE REGULATIONS, AIR POLLUTION CONTROL MEASURES, MONITORING, AND RECORDKEEPING

List in the following Tables 1-5, by emission point ID or identifier, state and federal pollution abatement programs and describe how compliance with these programs will be achieved, including test methods that will be used.

See Tables 1-5

8 EMISSION POINT LIST AND ANNUAL EMISSION RATE TABLE

Complete the following Emission Point List with the emission point number and description for each emission point. Include also, the associated operating rate or tank capacity and the operating schedule. List all Insignificant Activities under the appropriate heading. For sources claimed to be insignificant based on size or emission rate (LAC 33:III.501.B.5.A), information must be supplied to verify each claim. Consult instructions.

EMISSION POINT LIST

Dodson Division, Weyerhaeuser Industries, Inc.
Dodson Louisiana, Winn Parish

Emission Point No.	Description	Operating Rate (Max) or Tank Capacity	Operating Schedule H/D	D/W	W/Y
008	Cyclone Separator (Green End Core Sawdust)	—	24	7	52
017	Wood-Fired Boiler	233 MMBtu/hr	24	7	52
020	Ring Debarker	1,450,000 ton/yr	24	7	52
021	Planer Mill Truck Bin Baghouse	—	24	7	52
027	Dry Waste System Baghouse	—	24	7	52
030	RTO/RCO	280 MMSF/yr	24	7	52
031	Fugitive Resin Emissions	—	24	7	52
032	Press Vents	250 MMSF/yr	24	7	52
033	Dry Kiln #1	—	24	7	52
034	Dry Kiln #2	—	24	7	52
035	Dry Kiln #3	—	24	7	52
036	Green End Fugitive Emissions	133,000 tpy	24	7	52
037	Dryer Fugitives	—	24	7	52
038	Clipper Diverter Cyclone	—	24	7	52
039	Fugitive Ink Emissions	—	24	7	52
040	Steamvat Emissions	—	24	7	52
041	Lathe Emissions	—	24	7	52
042	Emission and Production Cap for Dry Kilns 1, 2, & 3	187 MMBF/yr	24	7	52
043	Cooling Zone of Veneer Dryer #1	—	24	7	52
044	Cooling Zone of Veneer Dryer #2	—	24	7	52
045	Veneer Dryers Cooling Zones Cap	280 MMSF/yr	24	7	52

Insignificant Activities List:

Description:	Vapor Pressure
(3) 150 gallon lube oil tanks	<3.5 psia
(1) 110 gallon diesel tank	<3.5 psia
(3) 280 gallon lube oil tanks	<0.5 psia
(2) 6,000 gallon diesel tank	<0.5 psia
(1) 500 gallon disel tank	<0.5 psia
(1) 3,000 gallon lube oil tank	<0.5 psia
(1) 500 gallon lube oil tank	<0.5 psia
(1) 1,000 gallon waste-oil tank	<0.5 psia
(2) 500 gallon waste-oil tanks	<0.5 psia
(2) 6,000 gallon resin tanks	<0.5 psia
(5) 250 gallon lube oil tanks	<0.5 psia
(1) 1,000 gallon lube oil tank	<0.5 psia
(1) 6,000 gallon caustic tank	—
(1) 1,000 gallon caustic tank	—
(2) 250 gallon gasoline tanks	—
Numerous Additive tanks	—
Heaters < 1.00 MMBtu/hr	—
Miscellaneous Building Vents	—
(1) Diesel Fire Pump	—

ANNUAL EMISSION RATES

Dodson Division, Weyerhaeuser Industries, Inc.
Dodson Louisiana, Winn Parish

Emission Point	Permitted emission rates are listed in tons per year					
	PM10	SO2	NOx	CO	VOC	Other
008	2.30	—	—	—	—	—
017	19.58	24.48	160.97	427.69	9.84	2.67[a]
020	0.35	—	—	—	—	—
021	4.41	—	—	—	—	—
027	3.27	—	—	—	—	—
028	—	—	—	—	—	—
030	8.96	0.12	43.47	52.34	21.11	—
031	—	—	—	—	2.36	—
032	—	—	—	—	33.11	—
033	—	—	—	—	—	—
034	—	—	—	—	—	—
035	—	—	—	—	—	—
036	1.62	—	—	—	—	—
037	0.90	0.01	2.03	1.70	21.11	—
038	0.29	—	—	—	—	—
039	—	—	—	—	1.51	—
040	—	—	—	—	9.68	—
041	—	—	—	—	16.01	—
042	—	—	—	—	339.69	—
043	—	—	—	—	—	—
044	—	—	—	—	—	—
045	7.95	0.03	5.07	4.26	11.83	—
Totals	**49.63**	**24.64**	**211.54**	**485.99**	**466.25**	—

(a) Includes 1.90 tpy heavy metals and 0.77 tpy chlorine.

ANNUAL EMISSION RATES

Dodson Division, Weyerhaeuser Industries, Inc.
Dodson Louisiana, Winn Parish

VOC TAP Speciation		
ACETALDEHYDE		0.76 tpy
FORMALDEHYDE		16.67 tpy
METHANOL		31.33 tpy
PHENOL		1.31 tpy
	TOTAL	50.07 tpy

Non-VOC TAP Speciation		
ARSENIC		0.022 tpy
BARIUM		0.166 tpy
CADMIUM		0.004 tpy
CHLORINE		0.774 tpy
CHROMIUM VI		0.003 tpy
COBALT		0.006 tpy
COPPER		0.048 tpy
LEAD		0.047 tpy
MANGANESE		1.567 tpy
NICKEL		0.032 tpy
MERCURY		0.003 tpy
	TOTAL	2.672 tpy

10 CERTIFICATION OF COMPLIANCE WITH APPLICABLE REQUIREMENTS

Statement for Applicable Requirements for Which the Source Is In Compliance

Based on information and belief, formed after reasonable inquiry, the company and facility referenced in this application is in compliance with, except as previously noted in Section 4.3 of this permit application, and will continue to comply with all applicable requirements pretaining to the sources covered by the permit application, as outlined in Tables 1 and 2 in the permit application. Issuance of the permit will resolve the wood-fired boiler issue and aid in ensuring compliance with all applicable Louisiana Air Quality laws and regulations.

For requirements promulgated as of the date of this certification with compliance dates effective during the permit term, I further certify that the company and facility referenced in this application will comply with such requirements on a timely basis and will continue to comply with such requirements.

a. Responsible Official (See 40 CFR 70.2)

Name: David West		
Title: Sawmill Manager		
Company: Weyerhaeuser Company		
Suite, mail drop, or division: Dodson Division		
Street or P.O. Box: P.O. Box 98		
City: Dodson	State: LA	Zip: 71422
Business Phone: (318) 628-6901		

Signature of responsible official(s): David West	
Date: 10 · 25 · 2007	
Date:	

CERTIFICATION: I certify under provision in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Application for Approval of Emissions of Air Pollutants, including all attachments thereto, are true, accurate and complete.

b. Professional Engineer

Name: Matt Simonton, P.E.		
Title: Project Engineer		
Company: PPM Consultants, Inc.		
Suite, mail drop, or division:		
Street or P.O. Box: 2508 Ticheli Road		
City: Monroe	State: LA	Zip: 71202
Business Phone: (318) 323-7270		

Signature of Professional Engineer: Hayward Simonton	
Date: 10/26/07	
Registration No.: 32885	State of Registration: LA

STATE OF LOUISIANA
HAYWARD SIMONTON
License No. 32885
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

CERTIFICATION: I certify that the engineering calculations, drawings, and design are true and accurate to the best of myknowledge.

WEYERHAEUSER C MPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS

Emission Point No.	LAC 33: III Chapter									NSPS 40 CFR 60					NESHAP 40 CFR 61					NESHAP 40 CFR 63						40 CFR		
	5	9	11	13	15	21	51	56	59	A	Db	K	Kb	VV	A	F	V	BB	FF	A	DDDD	DDDDD	H	R	CC	52*	64	68
Facility Wide	1	1		1			1	1	1											1	1							1
008 Cyclone Separator	1			1																								
017 Wood-Fired Boiler	1		1	1	1		1				1															1	1	
020 Ring Debarker				1																								
021 Planer Mill Truck Bin Baghouse				1																							1	
027 Dry Waste System Baghouse				1																							1	
030 RTO/RCO			1	1	1		1																			1	1	
031 Fugitive Resins	1						1																					
032 Press Vents							1																					
033 Dry Kiln #1	1						1																			1		
034 Dry Kiln #2	1						1																			1		
035 Dry Kiln #3	1						1																			1		
036 Green End Fugitive Emissions	1			1																								
037 Dryer Fugitives							1																					
038 Clipper Diverter Cyclone				1																								
039 Fugitive Ink Emissions																												
040 Steamvat Emissions							1																					
041 Lathe Emissions							1																					
042 Emission and Production Cap for Dry Kilns 1, 2 & 3																												
043 Cooling Zone of Veneer Dryer #1	1		1	1	1		1																			1		

WEYERHAEUSER C 1PANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 1: APPLICABLE LOUISIANA AND FEDERAL AIR QUALITY REQUIREMENTS

Emission Point No.	LAC 33: III Chapter									NSPS 40 CFR 60					NESHAP 40 CFR 61					NESHAP 40 CFR 63						40 CFR		
	5	9	11	13	15	21	51	56	59	A	Db	K	Kb	VV	A	F	V	BB	FF	A	DDDD	DDDDD	H	R	CC	52*	64	68
044 Cooling Zone of Veneer Dryer #2	1		1	1	1		1														1					1		
045 Veneer Dryers Cooling Zones Cap																					1							

* 40 CFR 52 and LAC 33:III.509 (PSD Regulations)

WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 2: STATE AND FEDERAL AIR QUALITY REQUIREMENTS

Emission Point No.	Applicable Requirement	Compliance Method/Provision	Notes
Facility Wide	Emission Inventory (EI) LAC 33:III.919 STATE ONLY	Submit EI by March 31st each year for the period January 1st to December 31st of previous year.	
	Comprehensive TAP Emission Control Program, LAC 33:III. Chapter 51 STATE ONLY	Impact of TAP emissions on air quality shall be below the Ambient Air Standard (AAS). Submit TEDI Report by July 1st each year. Submit discharges reports as required.	
	Chemical Accident Prevention and Minimization of Consequences LAC 33:III.Chapter 59 STATE ONLY	Comply with Sections 5901, 5907, 5911, and 5913 according to the dates specified in Chapter 59.	
	Chemical Accident Prevention Provisions 40 CFR Part 68	Comply with all applicable regulations in Part 68.	
	New Source Performance Standards – 40 CFR 60, Subpart A	All affected units shall comply all applicable provisions in 40 CFR 60 Subpart A.	
	NESHAP Subpart A – General Provisions, 40 CFR 63.1 – 63.5	Shall comply with all applicable provisions in 40 CFR 63, Subpart A.	
	NESHAP Subpart DDDD, 40 CFR 63.2230 – 63.2292	Shall comply with all applicable provisions in 40 CFR 63, Subpart DDDD.	
008 Cyclone Separator	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Shall not cause impairment of visibility or intensify an existing hazard condition on a public road. Maintain opacity ≤ 20%.	
017 Wood-Fired Boiler with ESP	Prevention of Significant Deterioration LAC 33:III.509 and 40 CFR Part 52	BACT is not required.	PSD-LA-627 (M-1).

WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 2: STATE AND FEDERAL AIR QUALITY REQUIREMENTS

Emission Point No.	Applicable Requirement	Compliance Method/Provision	Notes
017 Wood-Fired Boiler with ESP (Continued)	Control of Emissions of Smoke – LAC 33:III.1101.B	Opacity ≤ 20%, except during the cleaning of fire boxes or building a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal, or rapping of precipitators, which may have an opacity in excess of 20% for not more than one 6-minute period in any 60 consecutive minutes	
	Emission Standards for Particulate Matter LAC 33:III.1313	Maintain PM emissions ≤ 0.6 lbs/MM BTU heat input. Subsumed by NSPS Subpart Db.	Equipped with an ESP.
	LAC 33:III.501.C.6	Boiler shall be operated with a minimum flue gas oxygen concentration of 2%, based on hourly average, except during grate raking/sooth blowing operations.	
	Emissions Standards for Sulfur Dioxide LAC 33:III.1503	Exempted per LAC 33:III.1503.C.	SO_2 < 250 TPY
	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	Maintain O_2 concentration in flue gas as per State Only Specific Condition 3. Utilize ESP to control heavy metal emissions.	Determined as MACT.
	NSPS Subpart A-General Provisions 40 CFR 60.1 through 19	The boiler shall comply with applicable provisions of this subpart.	
	NSPS 40 CFR 60 Subpart Db for boilers 40 CFR 60.43b(c)(1)	Maintain PM ≤ 0.10 lb/MM BTU heat input.	
	Compliance Assurance Monitoring 40 CFR Part 64	Pre-control emissions of PM are > 100 TPY; therefore, a CAM plan is required.	CAM Plan in place.
	NESHAP 40 CFR Subpart DDDDD	DOES NOT APPLY. The provisions for Boiler MACT have been vacated.	Boiler MACT vacated. LDEQ letter of acknowledgement on October 1, 2007.

WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 2: STATE AND FEDERAL AIR QUALITY REQUIREMENTS

Emission Point No.	Applicable Requirement	Compliance Method/Provision	Notes
017 Wood-Fired Boiler with ESP (Continued)	Compliance Assurance Monitoring – 40 CFR 64	Shall comply with the applicable provisions of 40 CFR 64 as pre-control particulate emissions are greater than 100 TPY.	CAM Plan in place.
020 Ring Debarker	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Shall not cause impairment of visibility or intensify an existing hazard condition on a public road. Maintain opacity ≤ 20%.	
021 Planer Mill Truck Bin Baghouse	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Shall not cause impairment of visibility or intensify an existing hazard condition on a public road. Maintain opacity ≤ 20%.	
	Compliance Assurance Monitoring 40 CFR Part 64	Pre-control emissions of PM are > 100 TPY; therefore, a CAM plan is required.	CAM Plan in place.
027 Dry Waste System Baghouse	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Shall not cause impairment of visibility or intensify an existing hazard condition on a public road. Maintain opacity ≤ 20%.	
	Compliance Assurance Monitoring 40 CFR Part 64	Pre-control emissions of PM are > 100 TPY; therefore, a CAM plan is required.	CAM Plan in place.
030 RTO/RCO	Prevention of Significant Deterioration LAC 33:III.509 and 40 CFR Part 52	No additional control is determined as BACT for VOC, NOx, and CO.	PSD-LA-627 (M-1)
	Control of Air Pollution from Smoke LAC 33:III.1101	Maintain opacity ≤ 20%.	
	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Shall not cause impairment of visibility or intensify an existing hazard condition on a public road.	
	Emissions Standards for Sulfur Dioxide LAC 33:III.1503	Exempted per LAC 33:III.1503.C.	SO_2 < 250 TPY
	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	No additional control is required.	Determined as MACT

WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 2: STATE AND FEDERAL AIR QUALITY REQUIREMENTS

Emission Point No.	Applicable Requirement	Compliance Method/Provision	Notes
030 RTO/RCO	Compliance Assurance Monitoring (40 CFR Part 64)	Must maintain 3-hour block average catalytic oxidizer temperature above the minimum temperature established during performance testing or maintain 3-hour block average THC concentration in the catalytic oxidizer exhaust below the maximum concentration established during performance testing. Check the activity of a representative sample of the catalyst at least every 12 months.	CAM Plan in place.
031 – Fugitive Resins 032 – Press Vents	Prevention of Significant Deterioration LAC 33:III.509 and 40 CFR Part 52	No additional control is determined as BACT for VOC.	PSD-LA-627 (M-1)
	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	Resin shall contain < 0.10% free formaldehyde and phenol by weight.	Determined as MACT
033, 034, 035 Dry Kilns 042 Emission and Production Cap for Dry Kilns 1, 2 & 3	Prevention of Significant Deterioration LAC 33:III.509 and 40 CFR Part 52	No additional control is determined as BACT for VOC.	PSD-LA-627 (M-1)
	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	No further control is required.	Determined as MACT
038 Clipper Diverter Cyclone	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Shall not cause impairment of visibility or intensify an existing hazard condition on a public road. Maintain opacity ≤ 20%.	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311

WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 2: STATE AND FEDERAL AIR QUALITY REQUIREMENTS

Emission Point No.	Applicable Requirement	Compliance Method/Provision	Notes
040 Steamvat Emissions	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	No further control is proposed.	Proposed as MACT
041 Lathe Emissions	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	No further control is proposed.	Proposed as MACT
043 & 044 Cooling Zones of Veneer Dryers (Sources are capped under Source 045)	Prevention of Significant Deterioration LAC 33:III.509 and 40 CFR Part 52	No additional control is determined as BACT for VOC, NOx, and CO.	PSD-LA-627 (M-1)
	Control of Air Pollution from Smoke LAC 33:III.1101	Maintain opacity ≤ 20%.	
	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Shall not cause impairment of visibility or intensify an existing hazard condition on a public road.	
	Emissions Standards for Sulfur Dioxide LAC 33:III.1503	Exempted per LAC 33:III.1503.C.	SO_2 < 250 TPY
	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	No additional control is required.	Determined as MACT

WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 3: COMPLIANCE MONITORING DEVICES, ACTIVITIES, OR METHODS

Emission Point No./ Identifier	Applicable Compliance Requirement	Monitoring, Reporting, & Recordkeeping (MRR) Method Provision.	Notes
Facility Wide	Emission Inventory (EI) LAC 33:III.919 STATE ONLY	Submit EI by March 31st each year for the period January 1st to December 31st of previous year.	Reporting and Recordkeeping
	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	Submit TEDI report by July 1st each year Submit discharges report as required.	Reporting
	National Emissions Standards for Hazardous Air Pollutants for Source Categories - 40 CFR 63, Subpart DDDD	Shall comply with all applicable provisions of 40 CFR 63, Subpart DDDD.	Monitoring and Recordkeeping
008 Cyclone	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Daily visible emission check, annual part inspection. Maintain records and report per Part 70 Specific Condition 2.	MRR
	LAC 33.III.501.C.6	Cyclones shall be inspected annually and whenever visual checks indicate an inspection is warranted. Records of emission checks, maintenance, and inspections of the cyclones shall be kept onsite and available for inspection by DEQ.	Monitoring and Recordkeeping
	Recordkeeping and Reporting – LAC 33:III.Chapter 1513	Equipment/operational data recordkeeping by electronic or hardcopy continuously. Record and keep the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15 onsite for at least two years. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to representatives of the DEQ and EPA, if requested.	Monitoring and Recordkeeping
	NSPS Subpart A-General Provisions 40 CFR 60.7 and 60.8	MRR as required by the section.	MRR

WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 3: COMPLIANCE MONITORING DEVICES, ACTIVITIES, OR METHODS

Emission Point No./ Identifier	Applicable Compliance Requirement	Monitoring, Reporting, & Recordkeeping (MRR) Method Provision.	Notes
	NSPS 40 CFR 60 Subpart Db for boilers, 40 CFR 60.48b	Continuously monitor and record opacity from the flue gas.	Monitoring and Recordkeeping
008 Cyclone	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	Continuously monitor, record, and semiannually report the O2 concentration in flue gas per State Only Specific Condition 3.	Monitoring and Recordkeeping
	NESHAP 40 CFR 63, Subpart DDDDD	DOES NOT APPLY. The provisions for Boiler MACT have been vacated.	Boiler MACT vacated. LDEQ letter of acknowledgement on October 1, 2007.
	Compliance Assurance Monitoring 40 CFR 64.9	The owner/operator shall comply with all reporting and recordkeeping requirements of 40 CFR 64.9.	MRR
021, 027 Baghouses	Emissions Standards for Particulate Matter LAC 33:III.1303 and 1311	Daily visible emission checks, semiannual part inspection, keep records, and report per Part 70 Specific Condition 3.	MRR
030 RTO/RCO	LAC 33:III.1101 LAC 33:III.1313	Weekly visual emission check, recording and reporting as per Part 70 Specific Condition 4.	MRR

WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 3: COMPLIANCE MONITORING DEVICES, ACTIVITIES, OR METHODS

Emission Point No./ Identifier	Applicable Compliance Requirement	Monitoring, Reporting, & Recordkeeping (MRR) Method Provision.	Notes
033, 034, 035 Dryer Kilns #1, #2, and #3 (Sources are capped under Source 042)	Recordkeeping and Reporting – LAC 33:III. Chapter 1513	Equipment/operational data recordkeeping by electronic or hardcopy continuously. Record and keep onsite for at least two years the date required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the EPA upon request	Monitoring and Recordkeeping
	LAC 33:III.501.C.6 STATE ONLY	Keep records of the total throughput for each month, as well as, the total throughput for the pervious 12 months. Make records available for inspection by DEQ personnel.	Recordkeeping and Reporting
043 & 044 Cooling Zones for Veneer Dryer #1 and #2 (Sources are capped under Source 045)	LAC 33:III.501.C.6 STATE ONLY	The overall production and calculated tons of PM10, SO2, NOx, CO, and VOC for the veneer dryers shall be recorded monthly, as well as the calculated tons for the last twelve months. Records shall be kept onsite and available for inspection.	Recordkeeping
032 Press Vents	Comprehensive TAP Emission Control Program, LAC 33:III.5109 STATE ONLY	Maintain records of free phenol and formaldehyde concentration in resins.	Recordkeeping

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WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 4: COMPLIANCE TESTING REQUIREMENTS

Emission Point No.	Applicable Compliance Test Method	Criteria Being Tested	Notes
030	Method 25A	VOC	Destruction rate efficiency testing to be conducted within 90 days of amended compliance deadline in accordance with Subpart DDDD.

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WEYERHAEUSER COMPANY – DODSON DIVISION
DODSON, WINN PARISH, LOUISIANA

TABLE 5: EQUIPMENT LIST

Emission Point No.	Description	Capacity	Control Devices
NA			

Department of Environmental Quality
Air Quality Division
P.O. Box 82135
Baton Rouge, LA 70884-2135
(504)765-0219

LOUISIANA

Emission Inventory Questionnaire (EIQ) for Air Pollutants

1	Company Name: Weyerhaeuser Company	For Permit Section Use Only
Please Type or Print	Parent Company (if Company Name given above is a division)	
	Plant name (if any): Dodson Division	
	Nearest town: Dodson, Louisiana — Parish where located: Winn	

2 TYPE OF EIQ ☐ a. *ONLY* presently exist ☒ b. *BOTH* proposed additional emissions associated with an application for a permit, variance, or exemption *AND* presently existing emissions expected to be still existing after facility or modification described in application becomes operational

3 CONFIDENTIALITY ☐ If you are requesting confidentiality for all information, *except air pollutant emission rates*, check box. (You must attach justification for each confidentiality request)

4 ORGANIZATIONAL ACTIVITIES

Days of week normally NOT operating: ___Mon ___Tue ___Wed ___Thu ___Fri ___Sat ___Sun

Days per year facility typically operates: 350

Peak production season (list months): N/A

Daily operating schedule: [X] 24-hours OR specify number of hours:

Approximate number of employees at this location: 425

Details of facilities that, as a whole, operate intermittently:

Ownership:

X corporation, partnership, or sole proprietorship — regulated utility — municipal government

state government — federal government — other, specify

Industrial category – Indicate Standard Industrial Classification (SIC) Code(s) that apply to facility:

2436 — 2421

Description of operation with emphasis on air pollution sources. Use attachments if more space is needed.

Please refer to Process Description, Section 2.0 in the application.

5 SUMMARY OF EMISSIONS FOR ENTIRE PLANT AS A WHOLE

Rates given should correspond in most cases to the sum of the individual average rates of the point sources listed on the Single Point Source/Area Source forms.

Pollutant Type	Emission rate lbs/hr	Emission rate tons/yr
a. Particulate (solids or liquids)	11.34	49.63
b. Sulfur Dioxides	5.63	24.64
c. Nitrogen Oxides	48.29	211.54
d. Carbon Monoxide	110.96	485.99
e. Volatile Organic Compounds	105.54	466.25
f. Toxic Compounds Regulated under LAC 33:III.Chapter 51		
Acetaldehyde	0.160	0.76
Formaldehyde (HCHO)	3.800	16.67
Methanol	7.020	31.33
Phenol	0.300	1.310
Arsenic	0.005	0.022
Barium	0.038	0.166
Cadmium	0.001	0.004
Chlorine	0.177	0.774
Chromium VI	0.001	0.003
Cobalt	0.001	0.006
Copper	0.011	0.048
Lead	0.011	0.047
Manganese	0.358	1.567
Mercury	0.001	0.003
Nickel	0.007	0.032

6 PERSONNEL

a. Manager of facility on location at plant site

Name: David West		
Title: Complex Manager		
Company: Weyerhaeuser Company		
Suite, mail drop, or division: Dodson Division		
Street or P.O. Box: P.O. Box 98		
City: Dodson	State: LA	Zip: 71422
Business Phone: (318)628-6901		

b. Person to contact at site about air pollution control

Name: Jeffrey McBride		
Title: Environmental Manager		
Company: Weyerhaeuser Company		
Suite, mail drop, or division: Dodson Division		
Street or P.O. Box: P.O. Box 98		
City: Dodson	State: LA	Zip: 71422
Business Phone: (318) 628-6901		

c. Headquarters or other off-site contact (see instructions)

Name:		
Title:		
Company:		
Suite, mail drop, or division:		
Street or P.O. Box:		
City:	State:	Zip:
Business Phone:		

d. Person who prepared this report

☐ a ☐ b ☐ c ☒ other (specify below)

Name: Matt Simonton		
Title: Project Manager		
Company: PPM Consultants, Inc.		
Suite, mail drop, or division:		
Street or P.O. Box: 2508 Ticheli Road		
City: Monroe	State: LA	Zip: 71202
Business Phone: (318) 323-7270		

CERTIFICATION: I certify, under the provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Emission Inventory Questionnaire (EIQ) of Air Pollutants, including all attachments thereto, are true, accurate, and complete.

Signature of responsible official(s) (See 40 CFR 70.2)
Date 10 · 25 · 2007
Date

Department of Environmental Quality
Air Quality Division
P.O. Box 4313
Baton Rouge, LA 70821-4313
(225) 219-3181

LOUISIANA

SINGLE POINT SOURCE/AREA/VOLUME SOURCE Emission Inventory Questionnaire (EIQ) for Air Pollutants

Company Name	Plant Location and name (if any)	Date of Submittal
Weyerhaeuser Company	Dodson Division	October 2007

Source ID Number	Descriptive name of the equipment served by this stack or vent	Approximate iLocation of stack or vent (see instructions on how to determine location of area sources)
008	Cyclone Separator (Green End Core Sawdust)	UTM zone no. [X] 15 [ ] 16 Horizontal coordinate 529419 mE; Vertical coordinate 3553572 mN

Stack and Discharge Physical Characteristics [Change_yesXno]	Height of stack above grade (ft)	Diameter (ft) or stack discharge area (ft^2) [X] ft [ ] ft^2	Stack gas exit temperature deg F	Stack gas flow at process conditions, not at standard (ft3/min)	Stack gas exit velocity (ft/sec)	Date of construction/ modification	Operating rate (Max) or tank capacity
	30	2	Ambient	3,500	19		

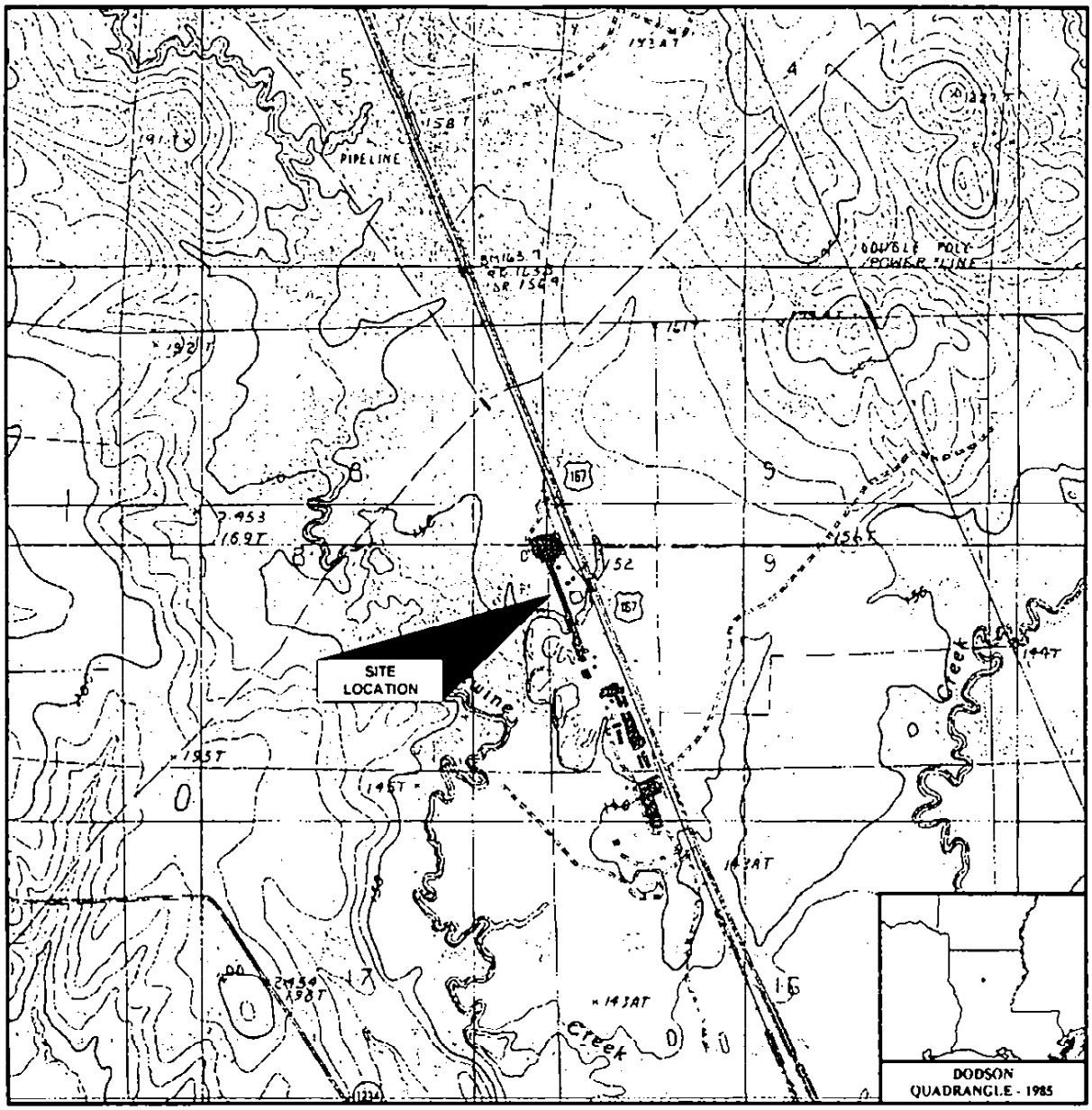
Fuel	Type of fuel used and heat input (see instructions)		Operating Characteristics	Percent of annual throughput of pollutants through this emission point				Normal operating time of this point			Normal operating rate
	Type of fuel	Heat input(MMBtu/hr)		Dec-Feb	Mar-May	Jun-Aug	Sep-Nov	hrs/day	days/wk	wk/yr	
a	N/A			25	25	25	25	24	7	52	
b											
c											

Air Pollutant Specific Information

Pollutant	Control Equipment Code	Control Equipment Efficiency	Emission Rate Average (lbs/hr)	Emission Rate Maximum (lbs/hr)	Emission Rate Annual (tons/yr)	Emission Estimation Method	Add, Change, or Delete Code	Concentration in gases exiting at stack
Particulate matter (PM_{10})	008	95.0%	0.53	1.09	2.30	4	Delete	gr/std ft^3

FIGURE 1

SITE LOCATION MAP



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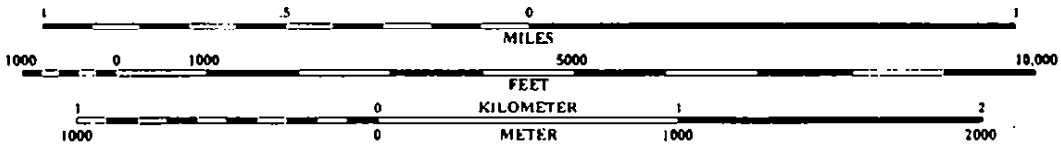
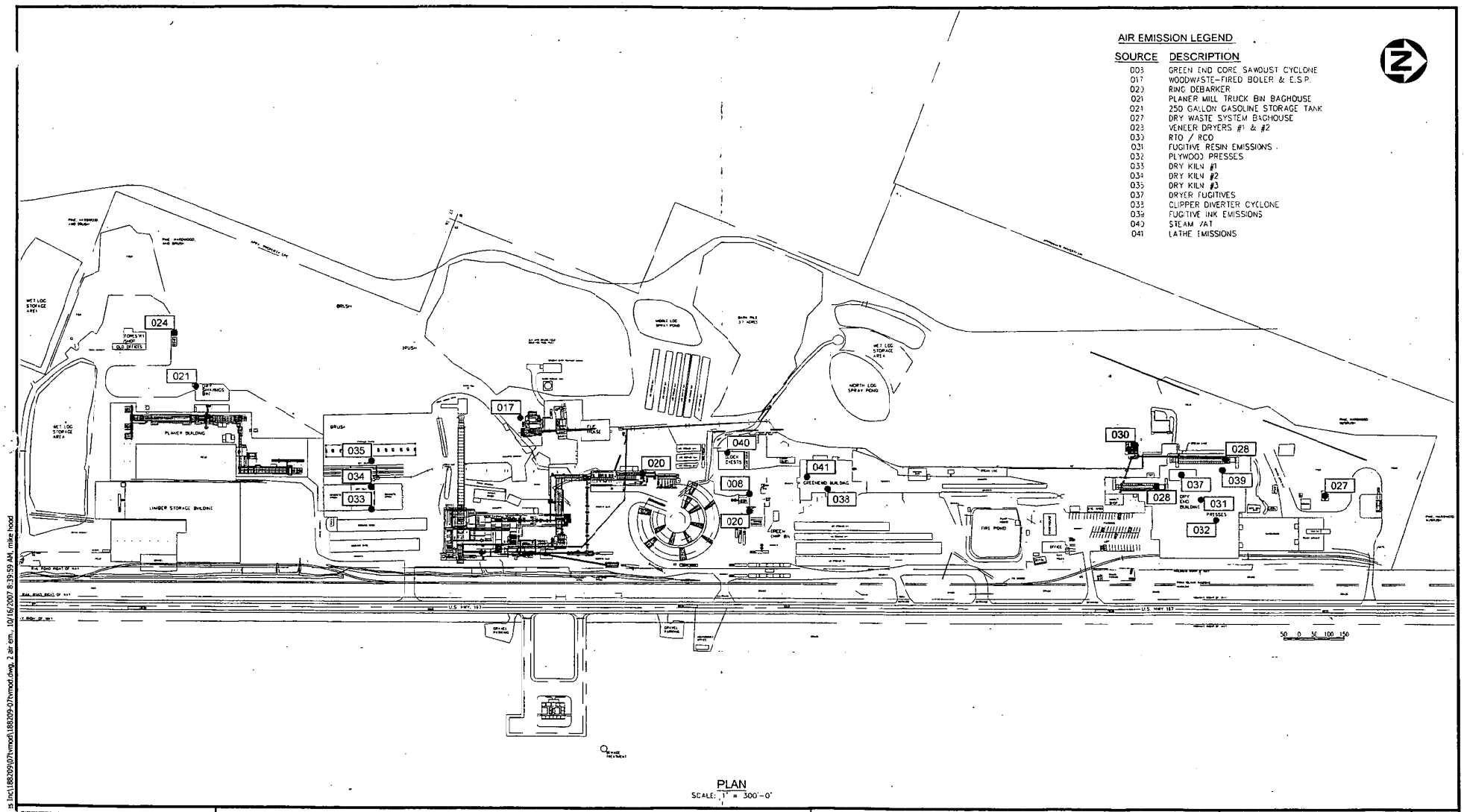


PPM CONSULTANTS, INC.		WEYERHAEUSER COMPANY **DODSON DIVISION** LA. HIGHWAY 167 DODSON, LOUISIANA	SITE LOCATION MAP	FIGURE NUMBER
DRAWN BY: MH	DRAWN DATE: 10/15/07			1
PROJECT NUMBER: 188209	BILLING GROUP: 07TVMOD			

Z:\Weyerhaeuser\188209\07tvmod\188209-07tvmod 1 site.DWG, SLM, 10/16/2007 8:43:49 AM, mike hood

FIGURE 2

SITE MAP



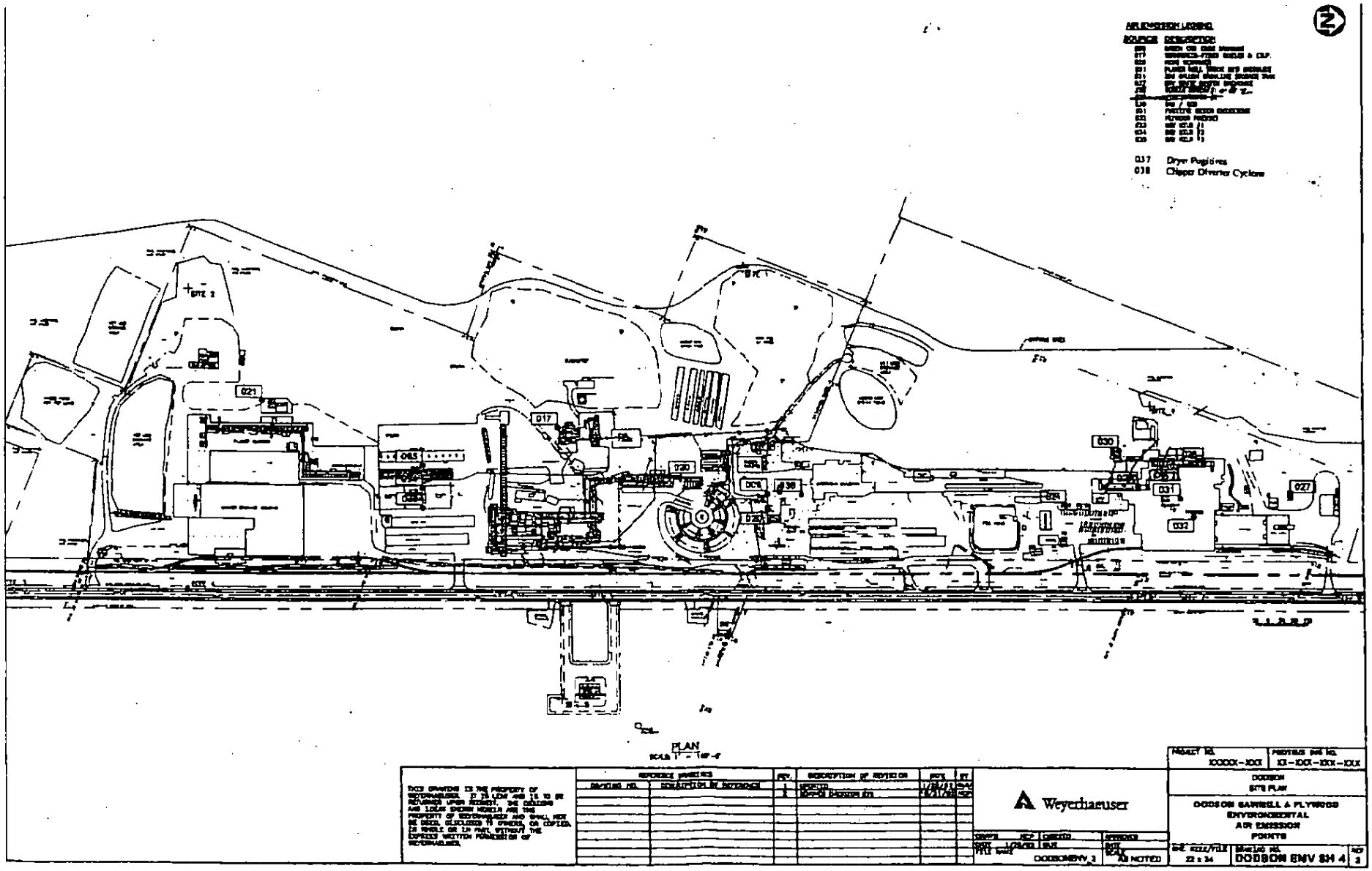
PLAN
SCALE: 1" = 300'-0"

PPM CONSULTANTS, INC.		WEYERHAEUSER COMPANY DODSON DIVISION LA. HIGHWAY 167 DODSON, LOUISIANA	ENVIRONMENTAL AIR EMMISIONS POINTS
DRAWN BY: MH	DRAWN DATE: 10/15/07		FIGURE NUMBER 2
PROJECT NUMBER: 188209	BILLING GROUP: 07TVMOD		

Z:\Weyerhaeuser\ 25 Inc\188209\07tvmod\188209-07tvmod.dwg, 2 air em., 10/16/2007 8:39:59 AM, mike hood

FIGURE 3

SAWMILL AND PLYWOOD PROCESS FLOW DIAGRAMS



REFERENCE DRAWINGS		REV.	DESCRIPTION OF REVISION	DATE	BY
DRAWING NO.	DESCRIPTION OF REFERENCE				
		1	[illegible]	[illegible]	[illegible]
		2	[illegible]	[illegible]	[illegible]

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Weyerhaeuser

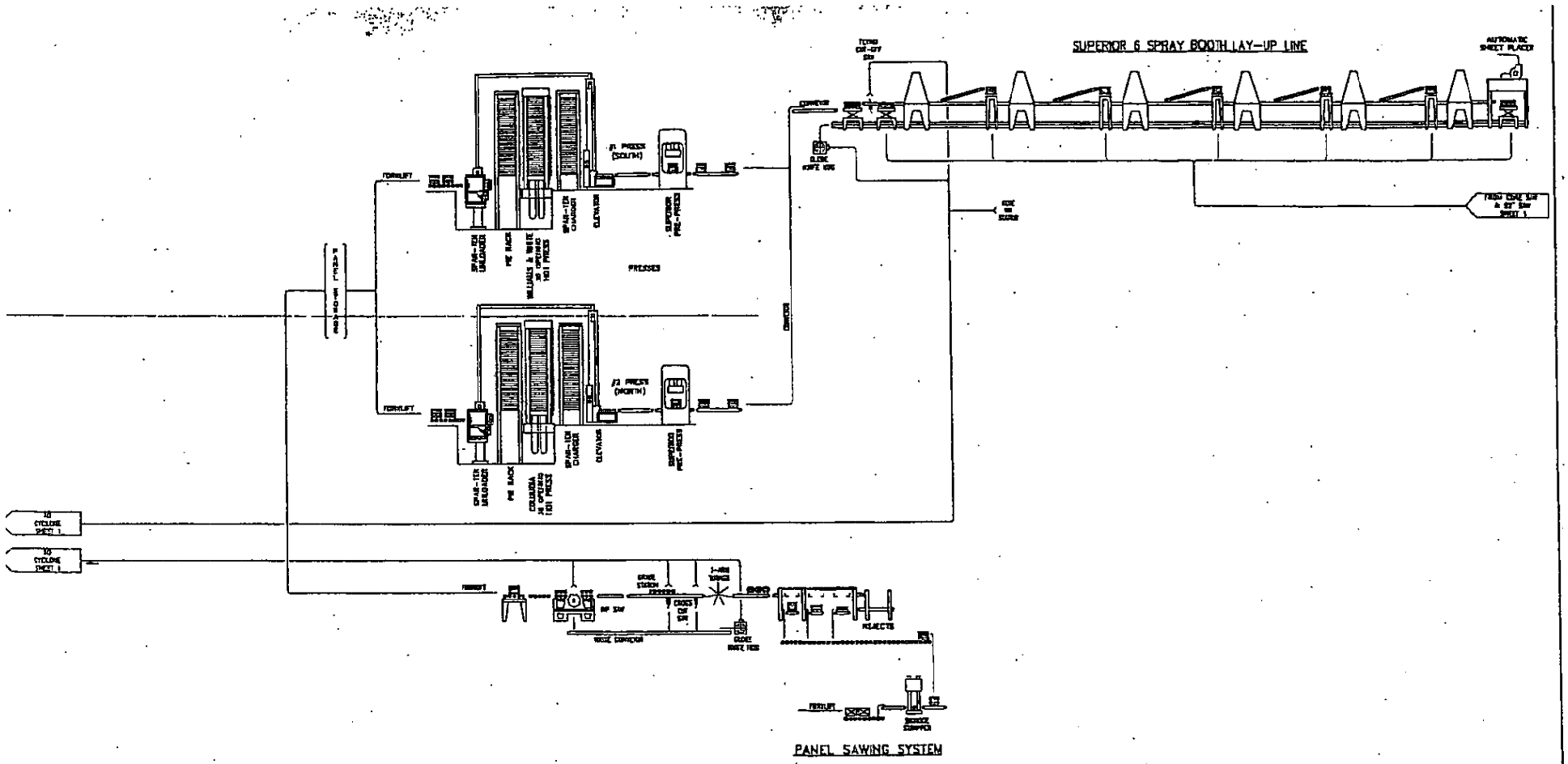
DRAWN: REV: CHECKED: APPROVED:
DATE: LOADED: DATE: DATE:
FILE NAME: DODSONENV_3 SCALE: AS NOTED

PROJECT NO. XXXXX-XXX
PROTEUS DWG NO. XX-XXX-XXX-XXX

DODSON
SITE PLAN

DODSON SAWMILL & PLYWOOD
ENVIRONMENTAL
AIR EMISSION
POINTS

SIZE: ANSI/FILE 22 x 34
DWG NO. DODSON ENV SH 4
REV 2



REV	DATE	BY	DESCRIPTION
1	1/21/02	RMW	UPDATED

FLOW DIAGRAM
DODSON PLYWOOD

PLANT or MILL	AREA in PLANT
DODSON PLYWOOD	GENERAL

Weyerhaeuser Company
ENGINEERING DEPT. RUSTON, LA.

SCALE: NTS	DATE: 3/21/02
DRAWN BY: RMW PLT @ 1 = 1	PROJ. NO. DPLYFLOW_1
DWG. NO. DODSON PLYWOOD FLOW	REV 1

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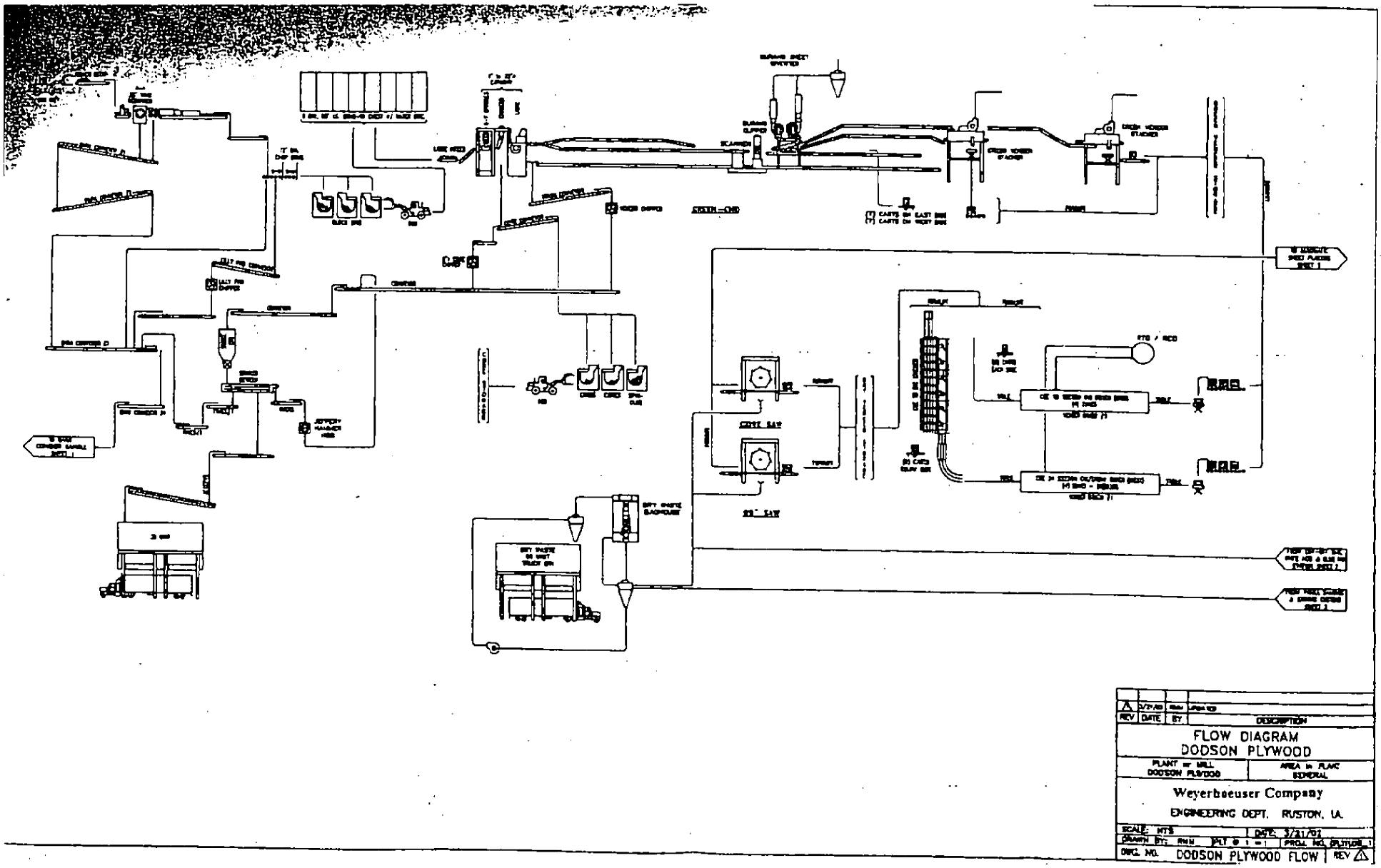

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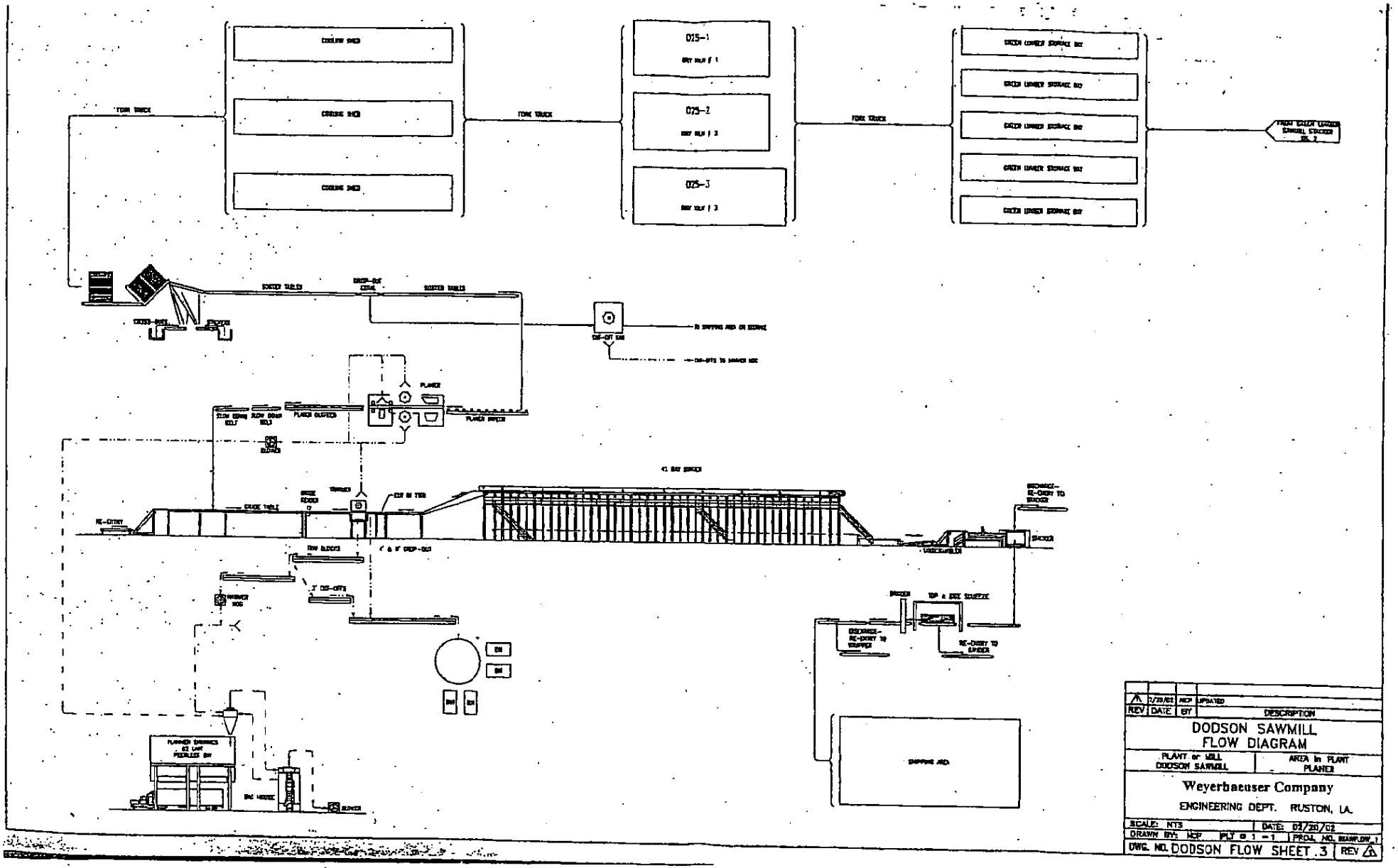

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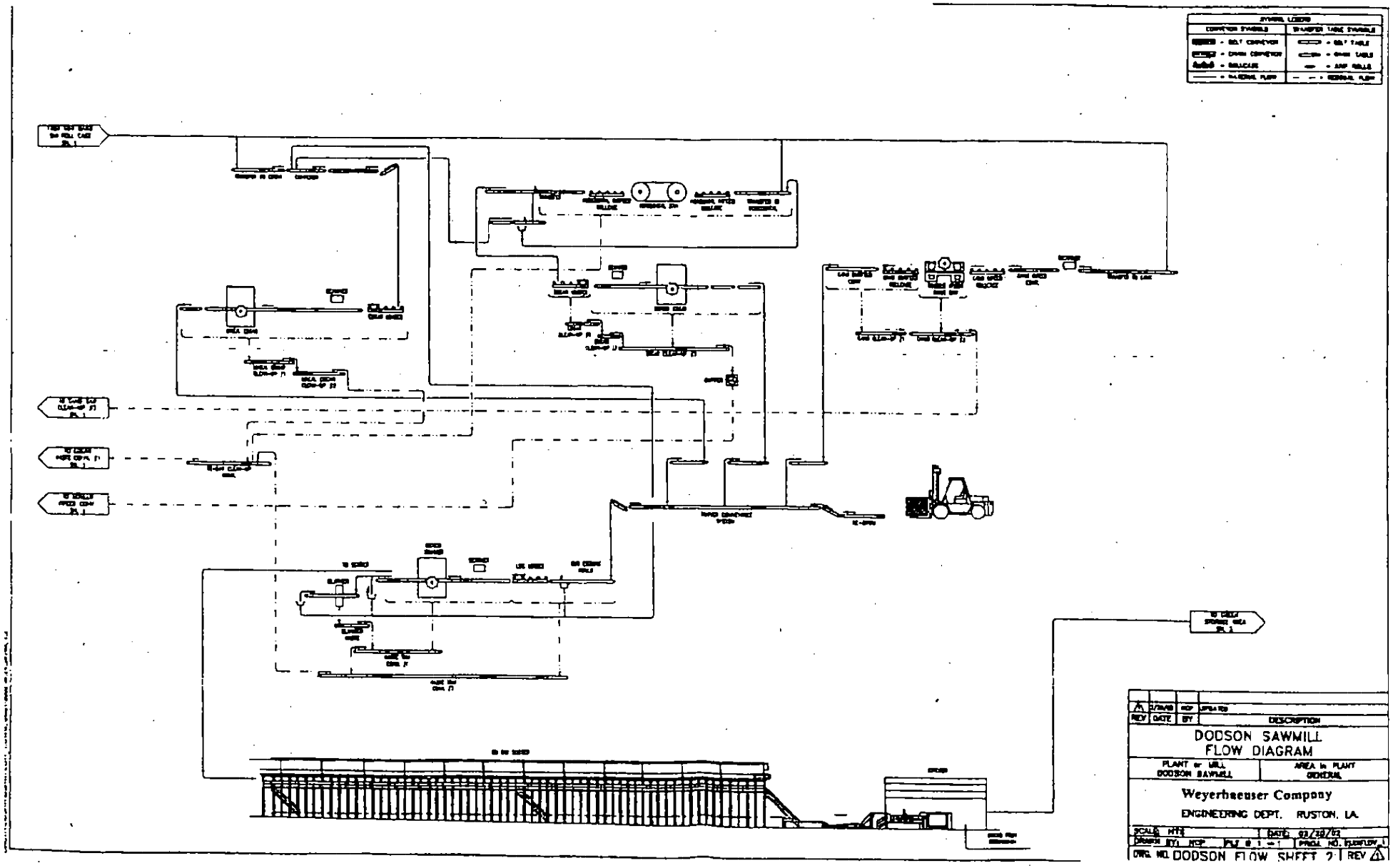
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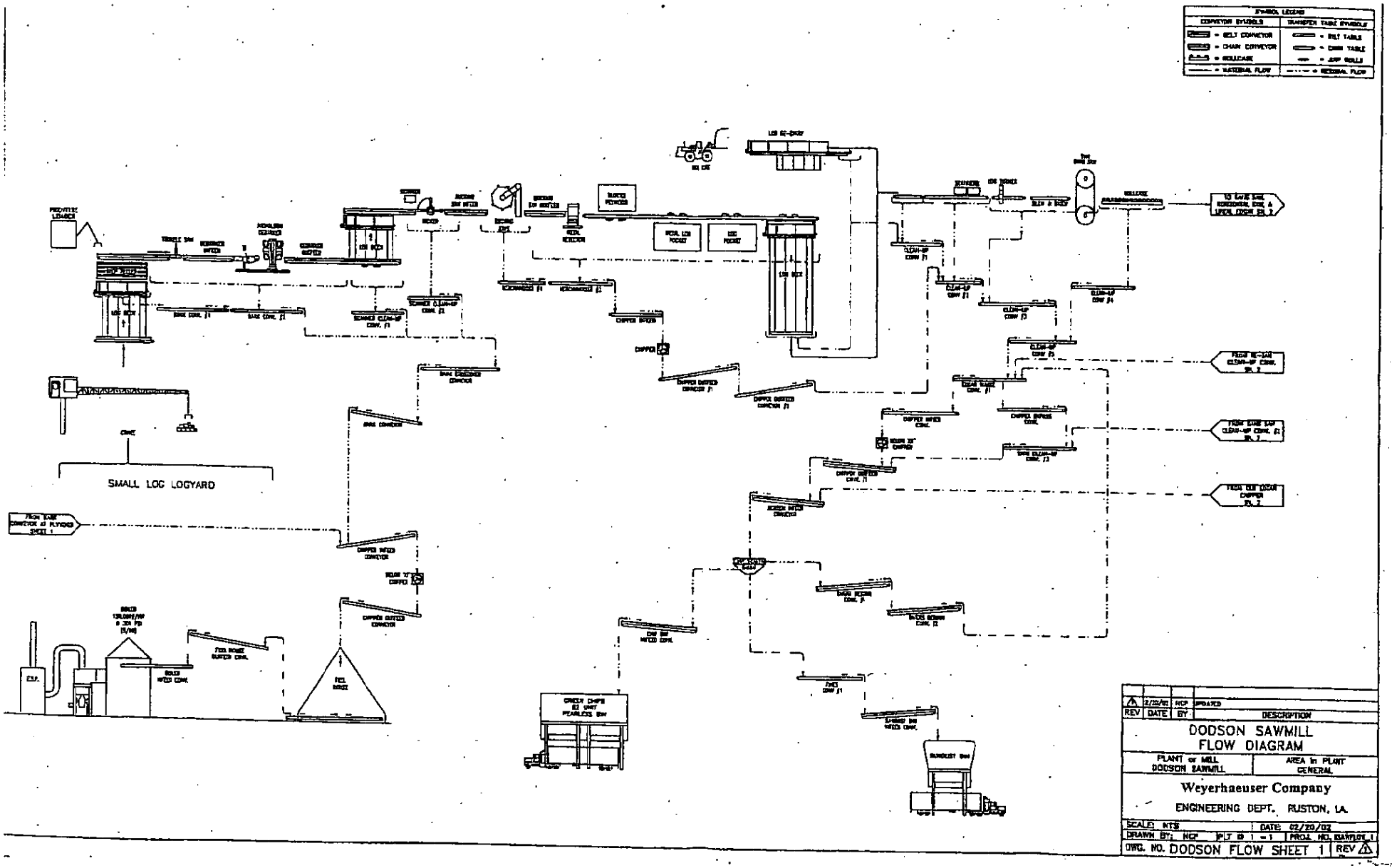
FLOW DIAGRAM
PLANT or MILL
DODSON SAWMILL
AREA in PLANT
GENERAL
Weyerhaeuser Company
ENGINEERING DEPT. RUSTON, LA.
DATE 03/20/03
DWG. NO. DODSON FLOW SHEET 2
REV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JUMP ROLLS
MATERIAL FLOW
SMALL LOG LOGYARD
LOG BOX
LOG POCKET
CHIPPER
BOILER
ESP
FUEL BOILER
REV
DATE
BY
DESCRIPTION
UPDATED
DODSON SAWMILL
FLOW DIAGRAM
PLANT or MILL
DODSON SAWMILL
AREA in PLANT
GENERAL
Weyerhaeuser Company
ENGINEERING DEPT. RUSTON, LA.
SCALE: NTS
DATE: 02/20/02
DRAWN BY: HCP
PROJ. NO.
DWG. NO. DODSON FLOW SHEET 1
REV

APPENDIX A

PART 70 COMPLETENESS CHECKLIST

PART 70 OPERATING PERMIT APPLICATION COMPLETENESS CHECKLIST

Date: **October 2007**
Facility: **Weyerhaeuser Company, Dodson Division**
Facility ID Number: 3240-00010 Agency Interest No.: **4294**
Application Type: ( ) Initial Submission ( ) Administrative Change (X) Minor Modification ( ) Significant Modification ( ) Supplement ( ) Revision ( ) Renewal
*Existing Air Permit Number: **3240-00010-V5 and PSD-LA-627(M-1)**

LAC 33:III	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	N/A	Location Within the Permit Application
517.A. Timely Submittal	For initial applications, was a copy of the application also submitted to EPA?	√			
517.B.1,2 Certification	Does the Application include a Certification by a Responsible Official?	√			Section 5.0
517.B.3 Certification	Does the Application Include Certification by a Professional engineer or their Designee?	√			Section 5.0
517.D.1 Identifying Information	Does the Application Include:				
	1. Company Name, Physical and Mailing Address of Facility?	√			Section 1.0
	2. Map Showing Location of the Facility?	√			Section 1.0 & Figure 1
	3. Owner and Operator Names and Agent?	√			Section 5.0
	4. Name and Telephone Number of Plant Manager or Contact?	√			Section 1.0 & Section 5.0
517.D.2 SIC Codes, Source Categories	Does the Application Include a Description of the Source's Processes and Products, Including SIC Code, and	√			Section 1.0 & Section 5.0
	EPA Source Category of HAPs if applicable			√	

LAC 33:III	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	N/A	Location Within the Permit Application
517.D.3,6 EIQ Sheets	Has an EIQ Sheet been Completed for Each Emission Point Whether an Area or Point Source?	√			Section 5.0
517.D.4 Monitoring Devices	Does the Application Include Identification and Description of Compliance Monitoring Devices or Activities?	√			Section 5.0
517.D.5 Revisions and Modifications Only	For Revisions or Modifications, Does the Application Include a Description of the Proposed Change and any Resulting Change in Emissions?	√			Section 1.0 & Section 3.0
517.D.7 General Information	Does the Application Include (on a Facility-Wide Basis) Information Regarding Fuels, Fuel Use, Raw Materials, Production Rates, and Operating Schedules?	√			Section 3.0 & Section 5.0
517.D.8 Operating Limitations	Has Information Regarding any Limitations on Source Operation or any Applicable Work Practice Standards been Identified	√			Section 3.0
517.D.9 Calculations	Are Emission Calculations Provided?	√			Section 3.0 and Appendix C
517.D.10 Regulatory Review	Does the Application Include a Citation and Description of Applicable Louisiana and Federal Air Quality Requirements and Standards?	√			Section 5.0
517.D.11 Test Methods	Has a Description of or a Reference to Applicable Test Methods Used to Determine Compliance with Standards been Provided?	√			Section 5.0
517.D.12 Major Sources of TAPs	Does the Application Include Information Regarding the Compliance History of Sources Owned or Operated by the Applicant (per LAC 33:III.5111)	√			Section 4.0

LAC 33:III	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	N/A	Location Within the Permit Application
517.D.13 Major Sources of TAPs	Does the Application Include a Demonstration to Show that the Source Meets all Applicable MACT and Ambient Air Standard Requirements?	√			Section 4.0
517.D.14 PSD Sources Only	If Required by DEQ, does the Application Include Information Regarding the Ambient Air Impact for Criteria Pollutants as Required for the Source Impact Analysis per LAC 33:III.509.K, L, and M?			√	
517.D.15 PSD Sources Only	If Required by DEQ, does the Application Include a Detailed Ambient Air Analysis?			√	
517.D.16, 18	Has any Additional Information been provided?	√			Appendices
517.D.17 Fees	Has the Code been identified?	√			Section 5.0
	Is the Applicable Fee Included with the Application?	√			
517.E.1 Additional Part 70 Requirements	Does the Certification Statement Include a Description of the Compliance Status of Each Emission Point in the Source with all Applicable Requirements?	√			Section 5.0
517.E.2 Additional Part 70 Requirements	Does the Certification Statement include a Statement that the Source will Continue to Comply with all Applicable Requirements with which the Source is Compliance?	√			Section 5.0
517.E.3 Additional Part 70 Requirements	Does the Certification Statement include a Statement that the Source will, on a Timely Basis, Meet all Applicable Requirements that will Become Effective During the Permit Term?	√			Section 5.0
517.E.4 Additional Part 70 Requirements	Are there Applicable Requirements for which the Source is not in Compliance at the Time of Submittal?	√			Section 4.0
	Does the Application Include a Compliance Plan Schedule?	√			Section 4.0

LAC 33:III	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	N/A	Location Within the Permit Application
517.E.4 Additional Part 70 Requirements (continued)	Does the Schedule Include Milestone Dates for which Significant Actions will occur?	√			Section 4.0
	Does the Schedule Include Submittal Dates for Certified Progress Reports?			√	
517.E.5 Additional Part 70 Requirements	Is this Source Covered by the Federal Acid Rain Program?		√		
	Are the Requirements of LAC 33:III.517.E.1-4 Included in the Acid Rain Portion of the Compliance Program?			√	
517.E.6 Additional Part 70 Requirements	Have any Exemptions from any Applicable Requirements been Requested?		√		
	Is the List Provided?			√	
517-.E.7 Additional Part 70 Requirements	Does the Application Include a Request for a Permit Shield?	√			Section 4.0
	Does the Request List those Federally Applicable Requirements for which the Shield is Requested along with the Corresponding Draft Permit Terms and Conditions which are Proposed to Maintain Compliance?			√	
517.E.8 Additional Part 70 Requirements	Does the Application Identify any Reasonable Anticipated Alternative Operating Scenarios?			√	
	Does the Application Include Sufficient Information to Develop Permit Terms and Conditions for Each Scenario, Including Source Process and Emissions Data?			√	
517.F Confidentiality	Does the Application Include a Request for Non-Disclosure (Confidentiality)?		√		
525.B. Minor Permit Modifications	Does the Application Include a Listing of new Requirements Resulting from the Change?	√			Section 5.0

LAC 33:III	Completeness Questions Relative to the Part 70 Permit Application	Yes	No	N/A	Location Within the Permit Application
525.B Minor Permit Modifications (Continued)	Does the Application Include Certification by the Responsible Official that the Proposed Action fits the Definition of a Minor Modification as per LAC 33:III.525.A.?	√			Section 5.0
	Does the Certification also Request that Minor Modification Procedures be Used?			√	
	Does the Application for Part 70 Sources Include the Owner's Suggested Draft Permit and Completed forms for the Permitting Authority to use to Notify Affected States?		√		

APPENDIX B

ADDENDUM TO PERMIT APPLICATION PER LAC 33:I.1701

Media Type (check one)

	Hazardous Waste
	Solid Waste
	Radiation Licensing
X	Air
	Water

Agency Interest Number 4294

Department of Environmental Quality
Permits Division
P.O. Box 82135
Baton Rouge, LA 70884-2135
(225) 765-0219

Addendum to Permit Applications per LAC 33:I.1701

Please Type Or Print		For Permits Division Use Only
	Company Name Weyerhaeuser Company	
	Parent Company (if Company Name given above is a division)	
	Plant name (if any) Dodson Division	
	Nearest town / Parish where located Dodson / Winn	

Use attachments to provide the required information. "NA" is not an acceptable answer. If a particular section does not apply to you, explain why.

1. Please provide a list of the states where you, as applicant*, have federal or state environmental permits identical to, or of a similar nature to, the permit for which you are applying.

AL, AR, OK, LA, SC

*This requirement applies to all individuals, partnerships, corporations, or other entities who own a controlling interest of 50% or more in your company, or who participate in the environmental management of the facility for an entity applying for the permit or an ownership interest in the permit.

2. Do you owe any outstanding fees or final penalties to the Department? X No ___ Yes

If yes, please explain

3. Is your company a corporation or limited liability company? ___ No X Yes

If yes, attach a copy of your company's Certificate of Registration and/or Certificate of Good Standing from the Secretary of State.

Certification:
I certify, under provisions in Louisiana and United States law which provide criminal penalties for false statements, that based on information and belief formed after reasonable inquiry, the statements and information contained in this Addendum to the Permit Application, including all attachments thereto are true, accurate, and complete.

Responsible Official

Name David West	City Dodson	State LA	Zip 71422
Title Complex Manager	Business phone 318-628-6901		
Company Weyerhaeuser Company	Signature of responsible official(s)		
Suite, mail drop, or division	Date		
Street or P.O. Box P.O. Box 98			

The Department may require the submission of additional information if it deems such information necessary.

APPENDIX C

AIR EMISSION CALCULATIONS

Weyerhaeuser, Dodson Division Emission Estimates

Green End Core Sawdust Cyclone Separator (008)

Source Data

Source ID #: 008
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Pollutant	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM/PM10	1.09	0.55	2.30

Note:

Maximum hourly emission rate conservatively estimated to be twice the average hourly emissions rate.

Wood-fired Boiler (017)

Source Data

Source ID #: 017
187,499 lb steam produced per hour
Heating Capacity: 1,041 Btu/lb steam
Boiler Efficiency: 66.98%
Heat Input: 291.41 MMBtu/hr
Performance Standard: 0.10 lb PM/MMBtu, NSPS Subpart Db
Max Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emission Calculation Methodology: PM/PM10, VOC, Formaldehyde, and CO emission factors are from stack test results. Emission factors for SO2 and metals are based on AP-42 Section 1.6, Wood Residue Combustion in Boilers, March, 2002. Emissions for NOx are based on current permit limit.

	Heat Input		Emission Factor		Permitted Emissions		
Pollutant	Maximum (MMBtu/hr)	Average (MMBtu/yr)	Maximum (lb/MMBtu)	Average (lb/MMBtu)	Maximum (lb/hr)	Average (lb/hr)	(TPY)
PM/PM10	291.41	1,958,292	0.02	0.02	5.83	4.47	19.58
SO2	291.41	1,958,292	0.025	0.025	7.29	5.59	24.48
NOx	291.41	1,958,292	0.1644	0.1644	47.91	36.75	160.97
CO [2]	291.41	1,958,292	0.6574	0.4368	191.57	97.65	427.69
VOC Including TAPs	291.41	1,958,292	0.0100	0.0100	2.93	2.25	9.84
Formaldehyde [2]	291.41	1,958,292	0.0043	8.6E-04	1.25	0.19	0.84
Arsenic	291.41	1,958,292	2.20E-05	2.20E-05	0.006	0.005	0.022
Barium	291.41	1,958,292	1.70E-04	1.70E-04	0.050	0.038	0.166
Cadmium	291.41	1,958,292	4.10E-06	4.10E-06	0.001	0.001	0.004
Chlorine	291.41	1,958,292	7.90E-04	7.90E-04	0.230	0.177	0.774
Chromium VI	291.41	1,958,292	3.50E-06	3.50E-06	0.001	0.001	0.003
Cobalt	291.41	1,958,292	6.50E-06	6.50E-06	0.002	0.001	0.006
Copper	291.41	1,958,292	4.90E-05	4.90E-05	0.014	0.011	0.048
Lead	291.41	1,958,292	4.80E-05	4.80E-05	0.014	0.011	0.047
Manganese	291.41	1,958,292	1.60E-03	1.60E-03	0.466	0.358	1.567
Mercury	291.41	1,958,292	3.50E-06	3.50E-06	0.001	0.001	0.003
Nickel	291.41	1,958,292	3.30E-05	3.30E-05	0.010	0.007	0.032

NOTES:

1. Max hourly production = 233.13 MMBtu/hr (average hourly production rate) *1.25 = 291.41 MMBtu/hr

2. Max emission factors for CO and HCHO account for high emissions generated during low steam demand.

Ring Debarkers (020)

Source Data

Source ID #: 020
Avg. Logs Debarked: 1,450,000 tpy
Max. Logs Debarked: 1,700 tons/hr
Note: The maximum logs debarked was calculated by assuming a safety factor of 25% times the total logs debarked.
Max Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emission Calculation Methodology: Emission factors are based on engineering judgement and on a 1980 AP-42 factor for a similar source (drum debarker).

Pollutant	Logs Debarked (TPY)	Logs Debarked (MAX TON/HR)	Emission Factor (LB/TON of Logs)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM	1,450,000	1,700	0.0024	5.10	0.40	1.74
PM_{10}	1,450,000	1,700	0.00048	1.02	0.08	0.35

Planer Mill Truck Bin Baghouse (021)

Source Data

Source ID #: 021
Max Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

more details

Baghouse collects fraction of PM/PM10 not captured by primary cyclone.
PM emissions testing performed 5/24/04 by Method 5.
Average based on average results and max hourly based on maximum test result plus 4 times standard deviation.

	Permitted Emissions		
Pollutant	(MAX LB/HR)	(LB/HR)	(TPY)
PM/PM10	1.82	1.05	4.41

Dry End Waste System Baghouse (027)

Source Data

Source ID #: 027
Max Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Annual Throughput: 3,273 tpy
Baghouse collection efficiency: 99.9%
Maximum hourly emission rate conservatively estimated to be two times greater than average emissions.

Pollutant	Fiber Throughput (TPY)	Efficiency (fraction)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM/PM10	3.273	0.999	1.49	0.75	3.27

RTO / RCO (030)

Source Data

Source ID #: 030
Destruction Rate Efficiency (DRE) for VOCs: 90%
Destruction Rate Efficiency (DRE) for TAPs: 80%
Air Flow: 36,960 dry standard cubic feet per minute
RTO/RCO Max Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

This source controls emissions from the heating zones of both veneer dryers (028).
Emissions at the inlet of the RTO/RCO are conservatively estimated to be based on 100% of current permitted values of the veneer dryers, including emissions from the cooling zones.
Emissions of NOx and CO from the RTO/RCO are estimated to be 20 ppm and 50 ppm, respectively based on vendor information.

Hot Zone Emissions of Veneer Dryer 1

Pollutant	Annual Production (MMSF/yr)	Maximum Production (SF/hr)	Emission Factor (lb/MSF)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10	163	27,379	0.064	1.75	1.19	5.22
VOC including TAPs	163	27,379	1.500	41.07	27.91	122.25
Formaldehyde	163	27,379	0.050	1.37	0.93	4.08

Emissions from Combustion of Natural Gas from Veneer Dryer 1

Pollutant	Natural Gas Production (MMCF/MMSF)	Emission Factor (lb/MMCF)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
VOC including TAPs	0.62755	5.5	0.09	0.06	0.28
NOx	0.62755	100	1.72	1.17	5.11
SO2	0.62755	0.60	0.01	0.01	0.03
CO	0.62755	84	1.44	0.98	4.30

Total Emissions for Veneer Dryer 1

Pollutant	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10	1.75	1.19	5.22
VOC including TAPs	41.16	27.98	122.53
NOx	1.72	1.17	5.11
SO2	0.01	0.01	0.03
CO	1.44	0.98	4.30
Formaldehyde	1.37	0.93	4.08

Hot Zone Emissions of Veneer Dryer 2

Pollutant	Annual Production (MMSF/yr)	Maximum Production (SF/hr)	Emission Factor (lb/MSF)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10	117	22,750	0.064	1.46	0.85	3.74
VOC including TAPs	117	22,750	1.500	34.13	20.03	87.75
Formaldehyde	117	22,750	0.05	1.14	0.67	2.93

Emissions from Combustion of Natural Gas from Veneer Dryer 2

Pollutant	Natural Gas Production (MMCF/MMSF)	Emission Factor (lb/MMCF)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
VOC including TAPs	2.59095	5.500	0.32	0.19	0.83
NOx	2.59095	100.000	5.89	3.46	15.16
SO2	2.59095	0.600	0.04	0.02	0.09
CO	2.59095	84.000	4.95	2.91	12.73

Total Emissions for Veneer Dryer 2

Pollutant	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10	1.46	0.85	3.74
VOC including TAPs	34.45	20.22	88.58
NOx	5.89	3.46	15.16
SO2	0.04	0.02	0.09
CO	4.95	2.91	12.73
Formaldehyde	1.14	0.67	2.93

Total Contribution of Emissions from Veneer Dryers

Pollutant	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10	3.21	2.05	8.96
VOC including TAPs	75.61	48.20	211.11
NOx	7.61	4.63	20.27
SO2	0.05	0.03	0.12
CO	6.39	3.89	17.03
Formaldehyde	2.51	1.60	7.00

Contribution of RTO / RCO

Air Flow = 36,960 dscfm

Emissions of NOx and CO from the RTO/RCO are estimated to be 20 ppm and 50 ppm, respectively based on vendor information.

Pollutant	Air Flow (DSCF per minute)	Emission Rate (ppm)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
NOx	36,960	20	5.30	5.30	23.19
CO	36,960	50	8.06	8.06	35.31

Total Pre-Control Emissions (028 + RTO/RCO)

Pollutant	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10	3.21	2.05	8.96
VOC including TAPs	75.61	48.20	211.11
NOx	12.91	9.92	43.47
SO2	0.05	0.03	0.12
CO	14.46	11.95	52.34
Formaldehyde	2.51	1.60	7.00

RTO / RCO (030) Emissions Summary

Pollutant	DRE (%)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10 [1]	NA	3.21	2.05	8.96
VOC including TAPs	90	7.56	4.82	21.11
NOx	NA	12.91	9.92	43.47
SO2	NA	0.05	0.03	0.12
CO	NA	14.46	11.95	52.34
Formaldehyde	80	0.50	0.32	1.40

Notes:

1) PM/PM10 emissions based on 5/6/04 Method 5 testing of RCO.

Fugitive Resin Emissions (031)

Source Data

Source ID #: 031
Free formaldehyde is present in resin typically in an amount less than 0.0002 (fractional basis).
Free phenol is present in resin typically in an amount less than 0.00025 (fractional basis).
Maximum amount of free formaldehyde is present in resin at less than 0.0005 (fractional basis).
Maximum amount of free phenol is present in resin at less than 0.0005 (fractional basis).
Production Rate: 250 MMSF/yr
Maximum Production Rate: 59,265 SF/hr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr
Application Rate: 42 tons resin / MMSF

Emission Calculations

Emissions are conservatively determined by estimating that 50% of free phenol and formaldehyde is liberated during storage and veneer application processes.

Pollutant	Annual Production (MMSF/yr)	Maximum Production (SF/hr)	Application Rate (TONS/MMSF)	Emission Factor (fractional)[1]	Permitted Emissions (MAX LB/HR)[2]	(LB/HR)	(TPY)
VOC including TAPs	250	59,265	42	0.000225 / 0.00125 (max)	6.22	0.54	2.36
Formaldehyde	250	59,265	42	0.0001 / 0.000625 (max)	3.11	0.24	1.05
Phenol	250	59,265	42	0.000125 / 0.000625 (max)	3.11	0.30	1.31

Notes:

1. Formaldehyde emission factor determined by the following calculation:
0.0002 (free formaldehyde, fractional basis) x 0.50 (estimated fraction liberated) = 0.0001
Phenol emission factor determined by the following calculation:
0.00025 (free phenol, fractional basis) x 0.50 (estimated fraction liberated) = 0.000125

2. Maximum emissions determined by using maximum free product amounts and applying a 25% safety factor.
Maximum emission factors for phenol and formaldehyde determined by the following calculation:
0.0005 (maximum free product) x 1.25 (safety factor) = 0.000625 (fractional basis)

Press Vent (032)

Source Data

Source ID #: 032
Press Temperature: 300°F
Press Pressure: 200 psi
Annual Press Production Rate: 250 MMSF/yr
Maximum Press Production Rate: 59,265 SF/hr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emissions for VOCs and Formaldehyde based on stack testing performed at two Weyerhaeuser facilities in March of 1995. Methanol emissions were determined during stack testing in December of 1995 at the Taylor Division of Weyerhaeuser.

Pollutant	Press Production (MMSF/yr)	Maximum Production (SF/hr)	Emission Factor (lb/MSF)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
VOC including TAPs	250	59,265	0.2649	15.70	7.56	33.11
Methanol	250	59,265	0.046	2.73	1.31	5.75
Formaldehyde	250	59,265	0.0009	0.05	0.03	0.11

Dry Kiln 1 (033)

Source Data

Source ID #: 033
Kiln is steam heated.
Production Rate: NA [1]
Maximum Production Rate: 11 MBF/hr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

VOC emissions are based on stack testing conducted at the Dodson Division in November of 1994.
Formaldehyde emissions are estimated using factors from veneer dryer tests and scaling up the 3/8" veneer thickness factor (0.05 lb/MSF) to the 1" lumber thickness factor (0.133 lb/MSF).
Methanol emission factor is conservatively based on available data from Weyerhaeuser research and testing.

Pollutant	Maximum Production (MBF/hr)	Emission Factor (lb/MBF)	Permitted Emissions (MAX LB/HR) [2]
VOC including TAPs	11	3.633	62.38
Formaldehyde	11	0.133	2.28
Methanol	11	0.24	4.12

Notes:

1. Production for Dry Kilns 1, 2, and 3 (033, 034, and 035) are capped at 187 MMBF/yr under Emissions Cap for Dry Kilns (042).

2. Maximum emissions are conservatively determined by using a peaking emission multiplier of 1.561.
Example: 11.00 MBF/hr x 0.133 lb/MBF x 1.561 (peaking emission multiplier) = 2.28 lb/hr (formaldehyde).

Dry Kiln 2 (034)

Source Data

Source ID #: 034
Kiln is steam heated.
Production Rate: NA [1]
Maximum Production Rate: 11 MBF/hr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

VOC emissions are based on stack testing conducted at the Dodson Division in November of 1994.
Formaldehyde emissions are estimated using factors from veneer dryer tests and scaling up the 3/8" veneer thickness factor (0.05 lb/MSF) to the 1" lumber thickness factor (0.133 lb/MSF).
Methanol emission factor is conservatively based on available data from Weyerhaeuser research and testing.

Pollutant	Maximum Production (MBF/hr)	Emission Factor (lb/MBF)	Permitted Emissions (MAX LB/HR) [2]
VOC including TAPs	11	3.633	62.38
Formaldehyde	11	0.133	2.28
Methanol	11	0.24	4.12

Notes:
1. Production for Dry Kilns 1, 2, and 3 (033, 034, and 035) are capped at 187 MMBF/yr under Emissions Cap for Dry Kilns (042).

2. Maximum emissions are conservatively determined by using a peaking emission multiplier of 1.561.
Example: 11.00 MBF/hr x 0.133 lb/MBF x 1.561 (peaking emission multiplier) = 2.28 lb/hr (formaldehyde).

Dry Kiln 3 (035)

Source Data

Source ID #: 035
Kiln is steam heated.
Production Rate: NA[1]
Maximum Production Rate: 12.32 MBF/hr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

VOC emissions are based on stack testing conducted at the Dodson Division in November of 1994.
Formaldehyde emissions are estimated using factors from veneer dryer tests and scaling up the 3/8" veneer thickness factor (0.05 lb/MSF) to the 1" lumber thickness factor (0.133 lb/MSF).
Methanol emission factor is conservatively based on available data from Weyerhaeuser research and testing.

Pollutant	Maximum Production (MBF/hr)	Emission Factor (lb/MBF)	Permitted Emissions (MAX LB/HR)[2]
VOC including TAPs	12.32	3.633	69.87
Formaldehyde	12.32	0.133	2.56
Methanol	12.32	0.24	4.62

Notes:

1. Production for Dry Kilns 1, 2, and 3 (033, 034, and 035) are capped at 187 MMBF/yr under Emissions Cap for Dry Kilns (042).

2. Maximum emissions are conservatively determined by using a peaking emission multiplier of 1.561.
Example: 12.32 MBF/hr x 0.133 lb/MBF x 1.561 (peaking emission multiplier) = 2.56 lb/hr (formaldehyde).

Green End Fugitive Emissions (036)

Source Data

Source ID #: 036
Total Estimated Material Throughput: 133,000 tpy
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

CONVEYING OF MATERIAL
Emission factors from AP-42 Section 13.2.4, Miscellaneous Sources, Aggregate Handling and Storage Piles, January, 1995.

$E^{MAX} = (k(0.0032) \times (((U/5)^{1.3}) / ((M/2)^{1.4}))$
$E^{AVG} = (k(0.0032) \times ((((U/5)^{1.3}) / ((M/2)^{1.4})) \times ((350-P)/350))$

where: E = emission factor (lb/ton of material)
k = particle size multiplier
U = wind speed (mph)
M = moisture content (%)
P = number of days with 0.01" of rain

kPM	kPM-10	U (mph)	M (%)	P
0.74	0.35	8.2	5	105

Pollutant	Total Estimated Material Throughput (tpy)	Avg Emission Factor (lb/ton of Material)	Max Emission Factor (lb/ton of Material)	Proposed Allowable Emission Rates for Conveying		
				Avg (lb/hr)	Max (lb/hr)	(tpy)
PM	133,000	0.0009	0.0012	0.013	0.019	0.06
PM-10	133,000	0.0004	0.0006	0.006	0.009	0.03

CHIPPING / HOGGING OF MATERIAL

Emission factors from AP-42 Section 10.3.3, Plywood Veneer and Layout Operations, February, 1980 for the ring debarker.

Pollutant	Total Estimated Material Throughput (tpy)	Avg Emission Factor (lb/ton of Material)	Max Emission Factor (lb/ton of Material)	Proposed Allowable Emission Rates for Chipping/Hogging		
				Avg (lb/hr)	Max (lb/hr)	(tpy)
PM	133,000	0.0240	0.0480	0.364	0.729	1.60
PM-10	133,000	0.0240	0.0480	0.364	0.729	1.60

* Maximum hourly emissions estimated to be twice average hourly.

TOTAL EMISSIONS FOR GREEN END FUGITIVE EMISSIONS (036)

Pollutant	Proposed Allowable Emission Rates		
	Avg (lb/hr)	Max (lb/hr)	(tpy)
PM	0.378	0.748	1.65
PM-10	0.371	0.738	1.62

Veneer Dryer Fugitives (037)

Source Data

Source ID #: 037
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Fugitive emissions from Veneer Dryers are conservatively estimated to be 10% of the total emissions, prior to controls, from Veneer Dryer Hot Zones.

Total Emissions from Veneer Dryer Hot Zones

Pollutant	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10	3.21	2.05	8.96
VOC including TAPs	75.61	48.20	211.11
NOx	7.61	4.63	20.27
SO2	0.05	0.03	0.12
CO	6.39	3.89	17.03
Formaldehyde	2.51	1.60	7.00

Fugitive Emissions from Veneer Dryers

Pollutant	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM10	0.32	0.20	0.90
VOC including TAPs	7.56	4.82	21.11
NOx	0.76	0.46	2.03
SO2	0.005	0.003	0.01
CO	0.64	0.39	1.70
Formaldehyde	0.25	0.16	0.70

Clipper Diverter Cyclone (038)

Source Data

Source ID #: 038
Annual Fiber Throughput: 4.64 tpy
Max Hourly Fiber Throughput: 11.05 lb/hr
Cyclone Efficiency: 95%
Production Rate: 332.5 MMSF/yr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Maximum hourly emission rate conservatively estimated to be ten times greater than average emissions.

Pollutant	Fiber Throughput (TPY)	Efficiency (fraction)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
PM/PM10	5.80	0.95	0.66	0.07	0.29

Fugitive Ink Emissions (039)

Source Data

Source ID #: 039
Maximum Hourly Usage conservatively based on annual usage with a 25% safety factor.
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emission estimates of the items below are conservatively based on the pollutant material content according to the manufacturer's MSDS. The specific products below are listed for the purpose of referencing emission rates to a corresponding product. Alternative products, in liquid or solid form, may be used that emit pollutants at rates below the proposed maximum hourly emission rates.

VIR-21 Striping Ink Black

Pollutant	Max Hourly Usage (gal/hr)	Annual Usage (gal/yr)	Pollutant Content (lb/gal)	Proposed Emissions Avg (lb/hr)	Max (lb/hr)	(tpy)
VOCs Including TAPs	0.436351313	3057.95	0.21	0.07	0.09	0.32

MIR-71 Moisture Ink Brown (La/Ga)

Pollutant	Max Hourly Usage (gal/hr)	Annual Usage (gal/yr)	Pollutant Content (lb/gal)	Proposed Emissions Avg (lb/hr)	Max (lb/hr)	(tpy)
VOCs Including TAPs	0.252114726	1766.82	0.02	0.00	0.01	0.02

MIC-51-A Moisture Ink Green 1'S

Pollutant	Max Hourly Usage (gal/hr)	Annual Usage (gal/yr)	Pollutant Content (lb/gal)	Proposed Emissions Avg (lb/hr)	Max (lb/hr)	(tpy)
VOCs Including TAPs	0.67295234	4716.05	0.4	0.22	0.27	0.94

MIC-31 Moisture Ink Red 1'S

Pollutant	Max Hourly Usage (gal/hr)	Annual Usage (gal/yr)	Pollutant Content (lb/gal)	Proposed Emissions Avg (lb/hr)	Max (lb/hr)	(tpy)
VOCs Including TAPs	0.279265126	1957.09	0.23	0.05	0.06	0.23

Total Ink Emissions

Pollutant	Proposed Emissions		
	Avg (lb/hr)	Max (lb/hr)	(tpy)
VOCs Including TAPs	0.34	0.43	1.51

Steamvat Emissions (040)

Source Data

Source ID #: 040
Annual Operational Rate: 250,000,000 SF/yr
Maximum Hourly Operational Rate: 78,822 SF/hr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emission factors from AP-42 Section 10.5 Plywood Manufacturing, Table 10.5-7, January, 2002.

Pollutant	Annual Production (MMSF/yr)	Maximum Production (SF/hr)	Emission Factor (lb/MSF)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
VOCs Including TAPs	250	59,265	0.0774	4.59	2.21	9.68
Acetaldehyde	250	59,265	0.0047	0.28	0.13	0.59
Acetone	250	59,265	0.003	0.18	0.09	0.38
Alpha-pinene	250	59,265	0.056	3.32	1.60	7.00
Beta-pinene	250	59,265	0.0064	0.38	0.18	0.80
Methanol	250	59,265	0.0073	0.43	0.21	0.91

Note:
Permitted emissions are based on production of 250 MMSF/yr of 3/8" panels.

Lathe Emissions (041)

Source Data

Source ID #: 041
Annual Operating Rate: 372.4 MMSF/yr
Maximum Hourly Operating Rate: 49,262 SF/hr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emission factors from AP-42 Section 10.5 Plywood Manufacturing, Table 10.5-7, January, 2002.
Emissions are conservatively based on emission factors for softwood plywood saws.
Maximum emissions are conservatively based on a 5% safety factor.

Pollutant	Annual Production (MMSF/yr)	Maximum Production (SF/hr)	Emission Factor (lb/MSF)	Permitted Emissions (MAX LB/HR)	(LB/HR)	(TPY)
VOCs Including TAPs	372.4	65,518	0.086	5.63	3.66	16.01
Acetaldehyde	372.4	65,518	0.00092	0.06	0.04	0.17
Acetone	372.4	65,518	0.0019	0.12	0.08	0.35
Alpha-pinene	372.4	65,518	0.027	1.77	1.15	5.03
Formaldehyde	372.4	65,518	0.00034	0.02	0.01	0.06
Methanol	372.4	65,518	0.012	0.79	0.51	2.23

Emissions Cap for Dry Kilns (042)

Source Data

Source ID #: 042
Production Rate: 187,000 MBF/yr
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

VOC emissions are based on stack testing conducted at the Dodson Division in November of 1994.
Formaldehyde emissions are estimated using factors from veneer dryer tests and scaling up the 3/8" veneer thickness factor (0.05 lb/MSF) to the 1" lumber thickness factor (0.133 lb/MSF).
Methanol emission factor is conservatively based on available data from Weyerhaeuser research and testing.

Pollutant	Kiln Production (MBF/yr)	Emission Factor (lb/MBF)	Permitted Emissions (LB/HR)	Permitted Emissions (TPY)
VOC including TAPs	187,000	3.633	77.55	339.69
Formaldehyde	187,000	0.133	2.84	12.44
Methanol	187,000	0.24	5.12	22.44

Note:
Production for Dry Kilns 1, 2, and 3 (033, 034, and 035) are capped at 187 MMBF/yr under Production & Emissions Cap for Dry Kilns (042).

Veneer Dryer #1 (043)

Source Data

Source ID #: 043
Annual Production Rate: 163 MMSF/yr (Veneer Dryer 1)
Max Hourly Production Rate: 27,379 SF/hr (Veneer Dryer 1)
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emissions for Formaldehyde are based on stack test data of heating zones from testing on six veneer dryers at 3 Weyerhaeuser facilities in fall of 1994.
Emission factors from combustion pollutants for NOx, CO, SO2, VOC, and PM10 are based on AP-42 Section 1.4, Natural Gas Combustion, July, 1998.
Emission factor for cooling zone for PM10 is based on AIRS emission factor.
Emission factors for Veneer Dryers based on AP-42 and AIRS data are conservatively reduced by 75% to account for emissions controlled by the RTO / RCO.
Emission factors for cooling zones are based on emissions from stack testing performed at Weyerhaeuser's Emerson Division in April of 1998.

Cooling Zone Emissions of Veneer Dryer 1

Pollutant	Maximum Production (SF/hr)	Emission Factor (lb/MSF)	Permitted Emissions (MAX LB/HR)
PM10	27,379	0.054	1.48
VOC including TAPs	27,379	0.08253	2.26
Formaldehyde	27,379	0.00053	0.01

Emissions from Combustion of Natural Gas from Veneer Dryer 1

Pollutant	Natural Gas Production (MMCF/MMSF)	Emission Factor (lb/MMCF)	Permitted Emissions (MAX LB/HR)
PM10	0.62755	1.9	0.03
VOC including TAPs	0.62755	1.375	0.02
NOx	0.62755	25	0.43
SO2	0.62755	0.15	0.003
CO	0.62755	21	0.36

NOTE: Natural Gas Emissions estimated by Natural Gas Production x Max Production x Emission Factor

Total Emissions for Veneer Dryer 1

Pollutant	Permitted Emissions (MAX LB/HR)
PM10	1.51
VOC including TAPs	2.28
NOx	0.43
SO2	0.003
CO	0.36
Formaldehyde	0.01

Veneer Dryer #2 (044)

Source Data

Source ID #: 044
Annual Production Rate: 117 MMSF/yr (Veneer Dryer 2)
Max Hourly Production Rate: 22,750 SF/hr (Veneer Dryer 2)
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emissions for Formaldehyde are based on stack test data of heating zones from testing on six veneer dryers at 3 Weyerhaeuser facilities in fall of 1994.
Emission factors from combustion pollutants for NOx, CO, SO2, VOC, and PM10 are based on AP-42 Section 1.4, Natural Gas Combustion, July, 1998.
Emission factor for cooling zone for PM10 is based on AIRS emission factor.
Emission factors for Veneer Dryers based on AP-42 & AIRS data are conservatively reduced by 75% to account for emissions controlled by the RTO/RCO.
Emission factors for cooling zones are based on emissions from stack testing performed at Weyerhaeuser's Emerson Division in April of 1998.

Cooling Zone Emissions of Veneer Dryer 2

Pollutant	Maximum Production (SF/hr)	Emission Factor (lb/MSF)	Permitted Emissions (MAX LB/HR)
PM10	22,750	0.054	1.23
VOC including TAPs	22,750	0.08253	1.88
Formaldehyde	22,750	0.00053	0.01

Emissions from Combustion of Natural Gas from Veneer Dryer 2

Pollutant	Natural Gas Production (MMCF/MMSF)	Emission Factor (lb/MMSF)	Permitted Emissions (MAX LB/HR)
PM10	2.59095	1.9	0.11
VOC including TAPs	2.59095	1.375	0.08
NOx	2.59095	25	1.47
SO2	2.59095	0.15	0.01
CO	2.59095	21	1.24

NOTE: Natural Gas Emissions estimated by Natural Gas Production x Max Production x Emission Factor

Total Emissions for Veneer Dryer 2

Pollutant	Permitted Emissions (MAX LB/HR)
PM10	1.34
VOC including TAPs	1.96
NOx	1.47
SO2	0.01
CO	1.24
Formaldehyde	0.01

Veneer Dryers Cooling Zones Cap (045)

Source Data

Source ID #: 045
Annual Production Rate: 163 MMSF/yr (Veneer Dryer 1) and 117 MMSF/yr (Veneer Dryer 2)
Max Hourly Production Rate: 27,379 SF/hr (Veneer Dryer 1) and 22,750 SF/hr (Veneer Dryer 2)
Maximum Operating Time: 24 hr/day x 365 days/yr = 8,760 hr/yr

Emission Calculations

Emissions for Formaldehyde are based on stack test data of heating zones from testing on six veneer dryers at 3 Weyerhaeuser facilities in fall of 1994.
Emission factors from combustion pollutants for NOx, CO, SO2, VOC, and PM10 are based on AP-42 Section 1.4, Natural Gas Combustion, July, 1998.
Emission factor for cooling zone for PM10 is based on AIRS emission factor.
Emission factors for Veneer Dryers based on AP-42 and AIRS data are conservatively reduced by 75% to account for emissions controlled by the RTO / RCO.
Emission factors for cooling zones are based on emissions from stack testing performed at Weyerhaeuser's Emerson Division in April of 1998.

Cooling Zone Emissions of Veneer Dryer 1

Pollutant	Annual Production (MMSF/yr)	Emission Factor (lb/MSF)	Permitted Emissions (LB/HR)	Permitted Emissions (TPY)
PM10	163	0.054	1.00	4.40
VOC including TAPs	163	0.08253	1.54	6.73
Formaldehyde	163	0.00053	0.01	0.04

Emissions from Combustion of Natural Gas from Veneer Dryer 1

Pollutant	Natural Gas Production (MMCF/MMSF)	Emission Factor (lb/MMCF)	Permitted Emissions (LB/HR)	Permitted Emissions (TPY)
PM10	0.62755	1.9	0.02	0.10
VOC including TAPs	0.62755	1.375	0.02	0.07
NOx	0.62755	25	0.29	1.28
SO2	0.62755	0.15	0.00	0.01
CO	0.62755	21	0.25	1.07

Total Emissions for Veneer Dryer 1

Pollutant	Permitted Emissions (LB/HR)	Permitted Emissions (TPY)
PM10	1.03	4.50
VOC including TAPs	1.55	6.80
NOx	0.29	1.28
SO2	0.00	0.01
CO	0.25	1.07
Formaldehyde	0.01	0.04

Cooling Zone Emissions of Veneer Dryer 2

Pollutant	Annual Production (MMSF/yr)	Emission Factor (lb/MSF)	Permitted Emissions (LB/HR)	Permitted Emissions (TPY)
PM10	117	0.054	0.72	3.16
VOC including TAPs	117	0.08253	1.10	4.83
Formaldehyde	117	0.00053	0.01	0.03

Emissions from Combustion of Natural Gas from Veneer Dryer 2

Pollutant	Natural Gas Production (MMCF/MMSF)	Emission Factor (lb/MMCF)	Permitted Emissions (LB/HR)	Permitted Emissions (TPY)
PM10	2.59095	1.9	0.07	0.29
VOC including TAPs	2.59095	1.375	0.05	0.21
NOx	2.59095	25	0.87	3.79
SO2	2.59095	0.15	0.01	0.02
CO	2.59095	21	0.73	3.18

Total Emissions for Veneer Dryer 2

Pollutant	Permitted Emissions (LB/HR)	Permitted Emissions (TPY)
PM10	0.79	3.45
VOC including TAPs	1.15	5.04
NOx	0.87	3.79
SO2	0.01	0.02
CO	0.73	3.18
Formaldehyde	0.01	0.03

Total Emissions for Veneer Dryers (045)

Pollutant	Permitted Emissions (LB/HR)	(TPY)
PM10	1.81	7.95
VOC including TAPs	2.70	11.83
NOx	1.16	5.07
SO2	0.01	0.03
CO	0.97	4.26
Formaldehyde	0.02	0.07

APPENDIX D

TANKS 4.0 PROGRAM CALCULATIONS

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TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	Insignificant Diesel Tanks
City:	Dodson
State:	Louisiana
Company:	Weyerhaeuser Company
Type of Tank:	Horizontal Tank
Description:	

Tank Dimensions

Shell Length (ft):		16.00
Diameter (ft):		8.00
Volume (gallons):		6,000.00
Turnovers:		30.65
Net Throughput(gal/yr):		183,879.00
Is Tank Heated (y/n):	N	
Is Tank Underground (y/n):	N	

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meterological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

Insignificant Diesel Tanks - Horizontal Tank
Dodson, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Distillate fuel oil no. 2	All	67.14	61.45	72.83	65.19	0.0083	0.0069	0.0099	130.0000			188.00	Option 1: VP60 = .0065 VP70 = .009

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TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

Insignificant Diesel Tanks - Horizontal Tank
Dodson, Louisiana

Annual Emission Calculations	
Standing Losses (lb)	1.5445
Vapor Space Volume (cu ft):	512.2597
Vapor Density (lb/cu ft):	0.0002
Vapor Space Expansion Factor:	0.0434
Vented Vapor Saturation Factor:	0.9982
Tank Vapor Space Volume	
Vapor Space Volume (cu ft):	512.2597
Tank Diameter (ft)	8.0000
Effective Diameter (ft):	12.7594
Vapor Space Outage (ft):	4.0000
Tank Shell Length (ft)	16.0000
Vapor Density	
Vapor Density (lb/cu ft)	0.0002
Vapor Molecular Weight (lb/lb-mole):	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0083
Daily Avg. Liquid Surface Temp. (deg. R)	526.8108
Daily Average Ambient Temp. (deg. F):	65.1667
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R)	524.8567
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,461.6100
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0434
Daily Vapor Temperature Range (deg. R):	22.7733
Daily Vapor Pressure Range (psia)	0.0030
Breather Vent Press. Setting Range(psia)	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0083
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia)	0.0069
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0099
Daily Avg. Liquid Surface Temp. (deg R)	526.8108
Daily Min. Liquid Surface Temp. (deg R)	521.1175
Daily Max. Liquid Surface Temp. (deg R)	532.5041
Daily Ambient Temp. Range (deg. R)	21.9667
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.9982
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0083
Vapor Space Outage (ft):	4.0000
Working Losses (lb)	4.7155
Vapor Molecular Weight (lb/lb-mole)	130.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia)	0.0083
Annual Net Throughput (gal/yr.):	183,879.0000

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Annual Turnovers:	30.6465
Turnover Factor:	1.0000
Tank Diameter (ft):	8.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	6.2600

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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Insignificant Diesel Tanks - Horizontal Tank
Dodson, Louisiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Distillate fuel oil no. 2	4.72	1.54	6.26

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TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	Insignificant Oil Tanks
City:	Dodson
State:	Louisiana
Company:	Weyerhaeuser Company
Type of Tank:	Horizontal Tank
Description:	One 3,000-gallon lube oil tank, Three 150-gallon lube oil tanks, Five 250-gallon lube oil tanks, Three 280-gallon lube oil tanks, One 500-gallon lube oil tank, and One 1,000-gallon lube oil tank

Tank Dimensions

Shell Length (ft):		14.00
Diameter (ft):		6.00
Volume (gallons):		3,000.00
Turnovers:		14.66
Net Throughput(gal/yr):		43,993.00
Is Tank Heated (y/n):	N	
Is Tank Underground (y/n):	N	

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meterological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

Insignificant Oil Tanks - Horizontal Tank
Dodson, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min	Max	Vapor Mol Weight	Liquid Mass Fract	Vapor Mass Fract	Mol Weight	Basis for Vapor Pressure Calculations
Residual oil no 6	All	67.14	61.45	72.83	65.19	0.0001	0.0000	0.0001	190.0000			387.00	Option 1: VP60 = .00004 VP70 = .00008

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TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

Insignificant Oil Tanks - Horizontal Tank
Dodson, Louisiana

Annual Emission Calcaulations	
Standing Losses (lb):	0.0073
Vapor Space Volume (cu ft):	252.1278
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0432
Vented Vapor Saturation Factor:	1.0000
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	252.1278
Tank Diameter (ft):	6.0000
Effective Diameter (ft):	10.3444
Vapor Space Outage (ft):	3.0000
Tank Shell Length (ft):	14.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	190.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0001
Daily Avg. Liquid Surface Temp. (deg. R):	526.8108
Daily Average Ambient Temp. (deg. F):	55.1667
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	524.8567
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,461.6100
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0432
Daily Vapor Temperature Range (deg. R):	22.7733
Daily Vapor Pressure Range (psia):	0.0000
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0001
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0000
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0001
Daily Avg. Liquid Surface Temp. (deg R):	526.8108
Daily Min. Liquid Surface Temp. (deg R):	521.1175
Daily Max. Liquid Surface Temp. (deg R):	532.5041
Daily Ambient Temp. Range (deg. R):	21.9667
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	1.0000
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.0001
Vapor Space Outage (ft):	3.0000
Working Losses (lb):	0.0108
Vapor Molecular Weight (lb/lb-mole):	190.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0001
Annual Net Throughput (gal/yr.):	43,993.0000

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Annual Turnovers	14.8643
Turnover Factor:	1.0000
Tank Diameter (ft)	6.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	0.0181

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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Insignificant Oil Tanks - Horizontal Tank
Dodson, Louisiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Residual oil no. 6	0.01	0.01	0.02

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TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	Insignificant Resin Tanks
City:	Dodson
State:	Louisiana
Company:	Weyerhaeuser Company
Type of Tank:	Vertical Fixed Roof Tank
Description:	

Tank Dimensions

Shell Height (ft):		16.00
Diameter (ft):		8.00
Liquid Height (ft) :		16.00
Avg. Liquid Height (ft):		8.00
Volume (gallons):		6,000.00
Turnovers:		171.16
Net Throughput(gal/yr):		1,026,937.42
Is Tank Heated (y/n):	N	

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Roof Characteristics

Type:	Cone	
Height (ft)		0.00
Slope (ft/ft) (Cone Roof)		0.06

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meterological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

Insignificant Resin Tanks - Vertical Fixed Roof Tank
Dodson, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
P/F resin	All	67.14	61.45	72.83	65.19	0.3670	0.3670	0.3670	18.0152			0.00	

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TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

Insignificant Resin Tanks - Vertical Fixed Roof Tank
Dodson, Louisiana

Annual Emission Calcaulations	
Standing Losses (lb):	8.4791
Vapor Space Volume (cu ft):	406.3126
Vapor Density (lb/cu ft):	0.0012
Vapor Space Expansion Factor:	0.0432
Vented Vapor Saturation Factor:	0.8641
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	406.3126
Tank Diameter (ft):	8.0000
Vapor Space Outage (ft):	8.0833
Tank Shell Height (ft):	16.0000
Average Liquid Height (ft):	8.0000
Roof Outage (ft):	0.0833
Roof Outage (Cone Roof)	
Roof Outage (ft):	0.0833
Roof Height (ft):	0.0000
Roof Slope (ft/ft):	0.0625
Shell Radius (ft):	4.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0012
Vapor Molecular Weight (lb/lb-mole):	18.0152
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.3670
Daily Avg. Liquid Surface Temp. (deg. R):	526.8108
Daily Average Ambient Temp. (deg. F):	65.1667
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	524.8567
Tank Paint Solar Absorptance (Shell):	0.1700
Tank Paint Solar Absorptance (Roof):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,461.6100
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0432
Daily Vapor Temperature Range (deg. R):	22.7733
Daily Vapor Pressure Range (psia):	0.0000
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.3670
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.3670
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.3670
Daily Avg. Liquid Surface Temp. (deg R):	526.8108
Daily Min. Liquid Surface Temp. (deg R):	521.1175
Daily Max. Liquid Surface Temp. (deg R):	532.5041
Daily Ambient Temp. Range (deg. R):	21.9667
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.8641
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.3670

Vapor Space Outage (ft):	8.0833
Working Losses (lb):	55.2785
Vapor Molecular Weight (lb/lb-mole):	18.0152
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.3670
Annual Net Throughput (gal/yr.):	1,026,937.4190
Annual Turnovers:	171.1562
Turnover Factor:	0.3419
Maximum Liquid Volume (gal):	6,000.0000
Maximum Liquid Height (ft):	16.0000
Tank Diameter (ft):	8.0000
Working Loss Product Factor:	1.0000
Total Losses (lb):	61.7576

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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Insignificant Resin Tanks - Vertical Fixed Roof Tank
Dodson, Louisiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
P/F resin	55.28	6.48	61.76

TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	Insignificant Waste Oil Tanks
City:	Dodson
State:	Louisiana
Company:	Weyerhaeuser Company
Type of Tank:	Horizontal Tank
Description:	One 1,000-gallon waste oil tank, and Two 500-gallon waste oil tanks

Tank Dimensions

Shell Length (ft):		12.00
Diameter (ft):		4.00
Volume (gallons):		1,000.00
Turnovers:		9.58
Net Throughput(gal/yr):		9,575.00
Is Tank Heated (y/n):	N	
Is Tank Underground (y/n):	N	

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meterological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

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TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

Insignificant Waste Oil Tanks - Horizontal Tank
Dodson, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg	Min	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg	Min.	Max	Vapor Mol. Weight	Liquid Mass Fract	Vapor Mass Fract	Mol Weight	Basis for Vapor Pressure Calculations
Residual oil no 6	All	67 14	61 45	72.83	65 19	0.0001	0 0000	0 0001	190 0000			387 00	Option 1: VP60 = 00004 VP70 = 00006

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TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

Insignificant Waste Oil Tanks - Horizontal Tank
Dodson, Louisiana

Annual Emission Calcaulations	
Standing Losses (lb):	0.0028
Vapor Space Volume (cu ft):	96.0487
Vapor Density (lb/cu ft):	0.0000
Vapor Space Expansion Factor:	0.0432
Vented Vapor Saturation Factor:	1.0000
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	96.0487
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	7.8196
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	12.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0000
Vapor Molecular Weight (lb/lb-mole):	190.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0001
Daily Avg. Liquid Surface Temp. (deg. R):	526.8108
Daily Average Ambient Temp. (deg. F):	65.1667
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	524.8567
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,461.6100
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.0432
Daily Vapor Temperature Range (deg. R):	22.7733
Daily Vapor Pressure Range (psia):	0.0000
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0001
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	0.0000
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	0.0001
Daily Avg. Liquid Surface Temp. (deg R):	526.8108
Daily Min. Liquid Surface Temp. (deg R):	521.1175
Daily Max. Liquid Surface Temp. (deg R):	532.5041
Daily Ambient Temp. Range (deg. R):	21.9667
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	1.0000
Vapor Pressure at Daily Average Liquid: Surface Temperature (psia):	0.0001
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	0.0024
Vapor Molecular Weight (lb/lb-mole):	190.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	0.0001
Annual Net Throughput (gal/yr.):	9,575.0000

TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Insignificant Waste Oil Tanks - Horizontal Tank
Dodson, Louisiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Residual oil no. 6	0.00	0.00	0.01

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TANKS 4.0.9d
Emissions Report - Detail Format
Total Emissions Summaries - All Tanks in Report

Emissions Report for: Annual

Tank Identification				Losses (lbs)
Insignificant Diesel Tanks	Weyerhaeuser Company	Horizontal Tank	Dodson, Louisiana	6.26
Insignificant Oil Tanks	Weyerhaeuser Company	Horizontal Tank	Dodson, Louisiana	0.02
Insignificant Resin Tanks	Weyerhaeuser Company	Vertical Fixed Roof Tank	Dodson, Louisiana	61.76
Insignificant Waste Oil Tanks	Weyerhaeuser Company	Horizontal Tank	Dodson, Louisiana	0.01
Total Emissions for all Tanks:				68.04

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TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	250 Gallon Gasoline Tank
City:	Dodson
State:	Louisiana
Company:	Weyerhaeuser Company
Type of Tank:	Horizontal Tank
Description:	

Tank Dimensions

Shell Length (ft):		5.00
Diameter (ft):		3.00
Volume (gallons):		250.00
Turnovers:		22.00
Net Throughput(gal/yr):		5,500.00
Is Tank Heated (y/n):	N	
Is Tank Underground (y/n):	N	

Paint Characteristics

Shell Color/Shade:	Gray/Light
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meterological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

250 Gallon Gasoline Tank - Horizontal Tank
Dodson, Louisiana

Mixture/Component	Month	Daily Liquid Surf Temperature (deg F) Avg	Min	Max	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min	Max.	Vapor Mol Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Gasoline (RVP 13)	All	72.66	63.18	82.14	67.41	8.7502	7.3892	10.3278	62.0000			92.00	Option 4: RVP=13, ASTM Slope=3
1,2,4-Trimethylbenzene						0.0334	0.0232	0.0474	120.1900	0.0250	0.0001	120.19	Option 2: A=7.04383, B=1573.267, C=208.58
Benzene						1.6422	1.2746	2.0932	78.1100	0.0180	0.0050	78.11	Option 2: A=6.905, B=1211.033, C=220.79
Cyclohexane						1.6901	1.3195	2.1425	84.1600	0.0024	0.0007	84.16	Option 2: A=6.841, B=1201.53, C=222.65
Ethylbenzene						0.1684	0.1211	0.2255	106.1700	0.0140	0.0004	106.17	Option 2: A=6.975, B=1424.255, C=213.21
Hexane (-n)						2.6348	2.0771	3.3092	86.1700	0.0100	0.0045	86.17	Option 2: A=6.876, B=1171.17, C=224.41
Isooctane						0.8489	0.6524	1.0923	114.2300	0.0400	0.0058	114.23	Option 2: A=6.8118, B=1257.84, C=220.74
Isopropyl benzene						0.0782	0.0541	0.1056	120.2000	0.0050	0.0001	120.20	Option 2: A=6.93666, B=1460.793, C=207.78
Toluene						0.4841	0.3642	0.6356	92.1300	0.0700	0.0057	92.13	Option 2: A=6.954, B=1344.8, C=219.48
Unidentified Components						11.2167	11.1594	11.1639	81.5002	0.7456	0.9761	89.36	
Xylene (-m)						0.1392	0.1010	0.1892	106.1700	0.0700	0.0017	106.17	Option 2: A=7.009, B=1462.266, C=215.11

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TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

250 Gallon Gasoline Tank - Horizontal Tank
Dodson, Louisiana

Annual Emission Calculations

Standing Losses (lb):	264.8989
Vapor Space Volume (cu ft):	22.5114
Vapor Density (lb/cu ft):	0.0950
Vapor Space Expansion Factor:	0.5756
Vented Vapor Saturation Factor:	0.5897
Tank Vapor Space Volume:	
Vapor Space Volume (cu ft):	22.5114
Tank Diameter (ft):	3.0000
Effective Diameter (ft):	4.3713
Vapor Space Outage (ft):	1.5000
Tank Shell Length (ft):	5.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0950
Vapor Molecular Weight (lb/lb-mole):	62.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.7502
Daily Avg. Liquid Surface Temp. (deg. R):	532.3263
Daily Average Ambient Temp. (deg. F):	85.1667
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	527.0767
Tank Paint Solar Absorptance (Shell):	0.5400
Daily Total Solar Insulation Factor (Btu/sqft day):	1,461.6100
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.5756
Daily Vapor Temperature Range (deg. R):	37.9155
Daily Vapor Pressure Range (psia):	2.9586
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.7502
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	7.3692
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	10.3278
Daily Avg. Liquid Surface Temp. (deg R):	532.3263
Daily Min. Liquid Surface Temp. (deg R):	522.8474
Daily Max. Liquid Surface Temp. (deg R):	541.8052
Daily Ambient Temp. Range (deg. R):	21.9667
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.5897
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.7502
Vapor Space Outage (ft):	1.5000
Working Losses (lb):	71.0436
Vapor Molecular Weight (lb/lb-mole):	62.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	8.7502
Annual Net Throughput (gal/yr.):	5,500.0000

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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

250 Gallon Gasoline Tank - Horizontal Tank
Dodson, Louisiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Gasoline (RVP 13)	71.04	264.90	335.94
Hexane (-n)	0.32	1.18	1.50
Benzene	0.36	1.33	1.68
Isooctane	0.41	1.53	1.93
Toluene	0.41	1.52	1.93
Ethylbenzene	0.03	0.10	0.13
Xylene (-m)	0.12	0.44	0.56
Isopropyl benzene	0.00	0.02	0.02
1,2,4-Trimethylbenzene	0.01	0.04	0.05
Cyclohexane	0.05	0.18	0.23
Unidentified Components	69.34	258.56	327.90

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TANKS 4.0.9d
Emissions Report - Detail Format
Tank Indentification and Physical Characteristics

Identification

User Identification:	Old 024
City:	Dodson
State:	Louisiana
Company:	Weyerhaeuser Company
Type of Tank:	Horizontal Tank
Description:	Old 550 gal gasoline tank

Tank Dimensions

Shell Length (ft):	6.00
Diameter (ft):	4.00
Volume (gallons):	550.00
Turnovers:	0.00
Net Throughput(gal/yr):	4,046.00
Is Tank Heated (y/n):	N
Is Tank Underground (y/n):	N

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition	Good

Breather Vent Settings

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meterological Data used in Emissions Calculations: Shreveport, Louisiana (Avg Atmospheric Pressure = 14.62 psia)

TANKS 4.0.9d
Emissions Report - Detail Format
Liquid Contents of Storage Tank

Old 024 - Horizontal Tank
Dodson, Louisiana

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F) Avg.	Min.	Max.	Liquid Bulk Temp (deg F)	Vapor Pressure (psia) Avg.	Min.	Max.	Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Gasoline (RVP 13)	All	67.14	61.45	72.83	65.19	7.9239	7.1370	8.7780	62.0000			92.00	Option 4: RVP=13, ASTM Slope=3

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TANKS 4.0.9d
Emissions Report - Detail Format
Detail Calculations (AP-42)

Old 024 - Horizontal Tank
Dodson, Louisiana

Annual Emission Calculations

Standing Losses (lb):	238.8067
Vapor Space Volume (cu ft):	48.0243
Vapor Density (lb/cu ft):	0.0869
Vapor Space Expansion Factor:	0.2884
Vented Vapor Saturation Factor:	0.5435
Tank Vapor Space Volume	
Vapor Space Volume (cu ft):	48.0243
Tank Diameter (ft):	4.0000
Effective Diameter (ft):	5.5293
Vapor Space Outage (ft):	2.0000
Tank Shell Length (ft):	8.0000
Vapor Density	
Vapor Density (lb/cu ft):	0.0869
Vapor Molecular Weight (lb/lb-mole):	62.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.9239
Daily Avg. Liquid Surface Temp. (deg. R):	526.8108
Daily Average Ambient Temp. (deg. F):	65.1667
Ideal Gas Constant R (psia cuft / (lb-mol-deg R)):	10.731
Liquid Bulk Temperature (deg. R):	524.8567
Tank Paint Solar Absorptance (Shell):	0.1700
Daily Total Solar Insulation Factor (Btu/sqft day):	1,461.8100
Vapor Space Expansion Factor	
Vapor Space Expansion Factor:	0.2884
Daily Vapor Temperature Range (deg. R):	22.7733
Daily Vapor Pressure Range (psia):	1.8410
Breather Vent Press. Setting Range(psia):	0.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.9239
Vapor Pressure at Daily Minimum Liquid Surface Temperature (psia):	7.1370
Vapor Pressure at Daily Maximum Liquid Surface Temperature (psia):	8.7780
Daily Avg. Liquid Surface Temp. (deg R):	526.8108
Daily Min. Liquid Surface Temp. (deg R):	521.1175
Daily Max. Liquid Surface Temp. (deg R):	532.5041
Daily Ambient Temp. Range (deg. R):	21.9667
Vented Vapor Saturation Factor	
Vented Vapor Saturation Factor:	0.5435
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.9239
Vapor Space Outage (ft):	2.0000
Working Losses (lb):	47.3269
Vapor Molecular Weight (lb/lb-mole):	62.0000
Vapor Pressure at Daily Average Liquid Surface Temperature (psia):	7.9239
Annual Net Throughput (gal/yr.):	4,045.0000

Annual Turnovers:	0.0000
Turnover Factor:	1.0000
Tank Diameter (ft):	4.0000
Working Loss Product Factor:	1.0000

Total Losses (lb):	286.1337

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TANKS 4.0.9d
Emissions Report - Detail Format
Individual Tank Emission Totals

Emissions Report for: Annual

Old 024 - Horizontal Tank
Dodson, Louisiana

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Gasoline (RVP 13)	47.33	238.81	286.13

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TANKS 4.0.9d
Emissions Report - Detail Format
Total Emissions Summaries - All Tanks in Report

Emissions Report for: Annual

Tank Identification				Losses (lbs)
250 Gallon Gasoline Tank	Weyerhaeuser Company	Horizontal Tank	Dodson, Louisiana	335.94
Old 024	Weyerhaeuser Company	Horizontal Tank	Dodson, Louisiana	286.13
Total Emissions for all Tanks:				622.08

APPENDIX E

CAM PLAN FOR RTO/RCO

Weyerhauser Company
Dodson Division
Dodson, Louisiana

Compliance Assurance Monitoring Plan (CAM) for RTO/RCO

Background

The Dodson Division of Weyerhauser Company is located near Dodson, Louisiana, in Winn Parish.

This Compliance Assurance Monitoring (CAM) Plan describes the monitoring system implemented by Weyerhauser Company to aid in demonstrating compliance with the provisions set forth in the PCWP MACT. A Geoenergy GeoTherm™ oxidizer unit was installed to accept the exhaust of the hot zones from both a combination steam/natural gas-fired veneer dryer and a natural gas-fired veneer dryer. The unit is operating as a Regenerative Catalytic Oxidizer (RCO) but is also capable of operating as a regenerative thermal oxidizer (RTO).

For the purposes of the applicability of this CAM plan, VOC emissions for the RTO/RCO are calculated to be greater than the 100 tons per year for VOC emissions prior to the control device. As such, a CAM plan is applicable for this pollutant-specific emissions unit, in accordance with 40 CFR Part 64.

Rationale for Selection of Performance Indicators and Indicator Ranges

The RCO/RTO at the Dodson Division serves to reduce emissions associated with the veneer dryers. A continuous Parameter Monitoring System (PMS) is maintained at the facility to ensure compliance with the minimum required destruction efficiency of 90% for VOC emissions.

COMPLIANCE ASSURANCE MONITORING PLAN:

Background

A. Emissions Unit

Description:	Veneer Dryers with RCO/RTO
Identification:	030
Facility:	Weyerhaeuser Company Dodson Division Dodson, Louisiana

B. Applicable Regulation, Emission Limit, and Monitoring Requirements

Regulation:	PCWP MACT / 40 CFR Part 63, Subpart DDDD
Emissions Limit:	90% destruction efficiency of VOCs
Monitoring Requirements:	Continuous

C. Control Technology: RTO/RCO

II. Monitoring Approach

The key elements of the monitoring approach are presented below.

A. Indicator

The PMS records combustion temperature each successive 15-minute period.

B. Measurement Approach

For each temperature monitoring device, thermocouples are located in positions that provide a representative temperature.

Electronic calibration and temperature sensor validation checks are performed semiannually. Calibration and validation checks are conducted when a sensor exceeds the manufacturer's specified maximum operating temperature range. When necessary, a new temperature sensor is installed.

C. Indicator Range

A minimum accuracy of 4°F or 0.75 percent of the temperature value, whichever is larger, is maintained.

Chart recorders have sensitivity with minor divisions not exceeding more than 20°F.

D. Quality Improvement Plan Threshold

If a significant quantity of deviations or exceedances of a standard occurs, then a quality improvement plan will be developed to address specific issues as needed.

E. Performance Criteria

Data Representativeness: A minimum of one cycle of measurements is recorded every 15 minutes.

Data averages are calculated by having at least 75% of the required recorded readings for each 3-hour or 24-hour block averaging period.

Verification of Operational Status: Not Applicable. Refer to Section II B.

QA / QC Practices and Criteria: Quarterly inspections are conducted on all components for integrity.

Quarterly inspections are conducted on all electrical connections for continuity, oxidation, and galvanic corrosion.

The activity level of a representative sample of the catalyst is checked annually.

Monitoring Frequency and Data Collection Procedures:

The PMS monitors and records the operation of the RCO to ensure compliance with the required minimum destruction rate efficiency of 90% of VOC emissions from the two veneer dryers.

A 3-hour block average catalytic oxidizer temperature above the minimum temperature established during performance testing or a 3-hour block average VOC concentration in the catalytic oxidizer exhaust below the maximum concentration established during performance testing is maintained.