

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SECTOR POLICIES AND PROGRAMS DIVISION OFFICE OF AIR QUALITY PLANNING AND STANDARDS OFFICE OF AIR AND RADIATION

DATE: September 22, 2017

SUBJECT: Development of a Provisional Emissions Calculations Tool for Inclusion in the

Final PCWP ICR

FROM: EPA/OAR/OAQPS/SPPD/NRG

TO: EPA-HQ-OAR-2016-0243

I. Introduction

The U.S. EPA is required under Clean Air Act sections 112(f)(2) and 112(d)(6) to perform a residual risk and technology review (RTR) of the Plywood and Composite Wood Products (PCWP) National Emission Standards for Hazardous Air Pollutants (NESHAP) codified in 40 CFR part 63, subpart DDDD. In order to conduct the data analyses required for the RTR, the EPA is conducting an Information Collection Request (ICR) to gather information from the PCWP industry. As part of the ICR, facilities are asked to compile a HAP emissions inventory that will be used in the EPA's residual risk modeling. The EPA will review the file for quality assurance (QA) and standardization. The EPA has included a Provisional Calculation Tool within the PCWP ICR spreadsheet in order to address stakeholder concerns regarding the level of effort (burden) required to develop the HAP emissions inventory as part of the ICR response. Some stakeholders have indicated that many facilities do not maintain HAP emissions inventories, and therefore, considerable effort will be required to develop the inventory required for the ICR. The goal of the developing the provisional calculations is to reduce respondent burden.

Instructions for use of the Provisional Calculation Tool are provided in the ICR instruction document accompanying the draft ICR spreadsheet (PCWP_survey.xlsx). The provisional calculations are built into the *HAP Emissions* tab of the ICR spreadsheet. Because use of the provisional calculations is optional, the columns and instructions pertaining to the Provisional Calculation Tool can be ignored by facilities not using the tool.

The purpose of this memorandum is to document the emission factors used in the Provisional Calculation Tool. Section II provides an overview of the PCWP Source Classification Codes (SCCs) and discusses the selection of emission factors for organic and metal HAP. Appendices to this memorandum list the SCCs and pollutants with emission factors included in the Provisional Calculation Tool.

II. Selection of Emission Factors

A. Source Classification Codes and Process Unit Types

The U.S. EPA uses SCCs to classify different types of activities that generate emissions. Each SCC represents a unique source category-specific process or function that emits air pollutants. The SCCs are used as a primary identifying data element in EPA's emission factor references (such as AP-42), the National Emissions Inventory (NEI), and other EPA databases. The SCCs are also used by many regional, state, local and tribal agency emissions data systems.

The list of SCCs applicable to the PCWP industry was updated in 2015, expanding the list to describe the relevant PCWP processes and to assign each process an SCC. A few additional revisions were made in 2016, and the lumber kiln SCCs were updated in 2017. The additional SCCs were added to assist various stakeholders in creation of emissions inventories for PCWP facilities. At present, there are 425 SCCs applicable to the PCWP industry. Many of the new SCCs do not yet appear in the most recent version (2014) version of the NEI.

In general, SCCs use a hierarchical system in which the classification of the emissions process becomes increasingly more specific with each of the four levels. The first level of description provides the most general information about the emissions process. The fourth level is the most detailed and describes specifics about emissions process. Over time the evolution of emissions activity and regulations where SCCs were needed, as well as other factors, have led to a concurrent evolution of the SCCs structure. Some SCCs have been retired, others have been created, and others have been modified or converted. Some SCCs may be extremely detailed in their representation of a process while others may not be as detailed. SCCs are not specific to a pollutant. Consequently, an SCC can describe a process that emits more than one pollutant. Table 1 provides the SCC levels for the PCWP manufacturing industry.

¹Introduction to Source Classification Codes and their Use for EIS Submissions, https://ofmpub.epa.gov/sccsearch/docs/SCC-IntroToSCCs.pdf

Table 1. SCC Levels for the PCWP Manufacturing Process Units

SCC Level	Description
Level 1	Industrial Processes
Level 2	Pulp and Paper and Wood Products
Level 3	Plywood Operations
	Particleboard Manufacture
	Medium Density Fiberboard (MDF) Manufacture
	Oriented Strandboard (OSB) Manufacture
	Hardboard (HB) Manufacture
	Fiberboard (FB) Manufacture
	Glulam Manufacture
	I-Joist Manufacture
	Laminated Veneer Lumber (LVL) Manufacture
	Laminated Strand Lumber (LSL) Manufacture
	Parallel Strand Lumber (PSL) Manufacture
	Sawmill Operations
Level 4	Example: Hardwood Veneer Dryer: Direct Natural Gas-fired: Cooling Section

Most of the PCWP SCCs are clearly or potentially applicable to PCWP process units covered under the ICR. Sixty (60) SCCs that are not applicable to the PCWP NESHAP source category were removed from the SCC list for the ICR, including:

- SCCs for "green-end" wood material handling sources not expected to emit HAP, but have SCCs because they are PM sources; and
- SCCs for lumber processing sources other than lumber kilns which are outside of the PCWP source category.

Appendix A lists the specific SCCs that were removed from the PCWP ICR.

Each facility responding to the ICR must select the applicable SCCs for their PCWP manufacturing operations. Stationary combustion sources (such as boilers) are not required to be included in the PCWP ICR unless the combustion unit provides direct heat to a dryer such that the combustion unit and dryer exhaust are comingled. To facilitate selection of appropriate SCCs for the PCWP ICR, the PCWP product types (coinciding with SCC Level 3) and the process unit types required to be included in the PCWP ICR were mapped to the SCCs. Occasionally, multiple SCCs apply for the same process unit (e.g., there are different SCCs for veneer dryer heated zones and cooling sections). An "other" process unit type was associated with SCCs that are generic in nature or are not necessarily related to process units that emit HAP.² **Appendix B** provides this mapping of SCCs with products and PCWP process units. A total of 365 SCCs are included for selection in the PCWP ICR.

² Facilities completing the ICR are not required to include "other" process units that do not emit HAP. Many of the "other" process units were included in the SCC-process unit type mapping for completeness but have no associated HAP emission factors.

B. Organic HAP Emission Factors

1. Use of AP-42

The number of PCWP SCCs now available greatly exceeds the number of SCCs appearing in AP-42, Chapter 10 (which covers the wood products industry). AP-42 Chapter 10 includes six sections with emission factors for the PCWP industry as shown in Table 2. The SCCs represented in AP-42 Chapter 10 were limited to the number of SCCs with available emission factors for criteria or hazardous air pollutants at that time. The PCWP AP-42 emission factors were last updated following collection of data for the PCWP NESHAP in 2002 and remain the largest single source of emission factors readily available to stakeholders and the public.³

Table 2. PCWP AP-42 Chapters

Section	Title	Date
10.5	Plywood Manufacturing	January 2002
10.6.2	Particleboard	June 2002
10.6.3	Medium Density Fiberboard	August 2002
10.6.4	Hardboard and Fiberboard	October 2002
10.9	Engineered Wood Products	November 2002

The AP-42 chapters are available at: https://www3.epa.gov/ttn/chief/ap42/ch10/index.html

It is acknowledged that the AP-42 emission factors are now somewhat dated in relation to developments in the PCWP industry. The AP-42 emission factors predate the 2007 PCWP NESHAP compliance date when many facilities installed controls on PCWP process units. However, the available uncontrolled AP-42 emission factors could be coupled with control efficiency estimates to estimate controlled emissions for facilities that do not have site-specific measurements or more representative data for certain HAP. The AP-42 emission factors also predate implementation of resin changes to reduce formaldehyde off-gassing from interior PCWP products. It is expected that use of the AP-42 factors would err on the side of overestimating emissions at facilities switching to low- or no-added formaldehyde resins.

In summary, AP-42 was selected as the reference for the organic HAP emission factors used in the Provisional Calculation Tool because:

- There is no other more-comprehensive, publicly-available information source,
- AP-42 is an EPA document that underwent a stakeholder review process prior to finalization, and
- The tradeoffs for using information dating back to 2002 in the tool seem to be a reasonable compromise for reducing the burden for facilities with no current HAP inventory and no other source of information to use for estimating emissions.

³ It is acknowledged that updated emission factors are maintained by and available to members of the National Council for Air and Stream Improvement (NCASI) and that member facilities will likely choose to use the NCASI emission factors in preparing their ICR emission inventories. The ICR instructs respondents to use the most-representative means of estimating emissions available to them, including site-specific emissions measurements or, if measurements are not available, emission estimates based on representative emission factors.

In order to use the AP-42 emission factors in the Provisional Calculation Tool, available "sets" of organic HAP emission factors representing uncontrolled emissions were paired with each SCC. As noted above, the number of SCCs exceeds the number of AP-42 emission factors. Therefore, it was necessary to extrapolate related emission factor sets to SCCs not having directly matched factors. A "set" of emission factors includes all the HAP for that SCC for which emission factors were not labeled below detection limit (BDL). The BDL labeling in AP-42 indicates that all of the measurement data use to derive the emission factor for a given pollutant was below the test method detection limit. The AP-42 indicates "BDL" instead of presenting a number in these cases. Emissions estimates based on BDL data are not necessary for the risk modeling inventory the provisional calculations are designed to inform.

After comparing the pollutants with positive (non-BDL) emission factors in all of the "sets" available, a menu list of HAP compounds for inclusion in the ICR was developed that includes all the HAP for which provisional calculation formulas are available. If applicable, respondents would specify additional HAP compounds beyond those included in the list and provide their own site-specific estimate of HAP emissions. **Appendix C** lists the HAP compounds with provisional calculation formulas. Only a small number of these HAP compounds apply for most process units. For example, methanol and formaldehyde are the most commonly-emitted HAP compounds for PCWP process units, followed by acetaldehyde, acrolein, phenol and propionaldehyde. There is no data to show (and little reason to expect) that most of the other HAP compounds in the list are emitted in detectable amounts. The HAP compounds with positive (non-BDL) emission factors are listed in **Appendix B** for each SCC matched to an emission factor. Process unit types that heat wood (i.e., dryers and presses) have more associated HAP compounds than other wood processing units (e.g., saws, formers, chippers).

For many SCCs there was no HAP emission factor set available, either because no HAP data were available for emission factor development or because all of the available HAP factors were BDL. Many of the PCWP SCCs represent process units that are not known to emit HAP, so it follows that there would be no HAP emission factors for several of the SCCs. These SCCs are labeled with "No EF for SCC" in the EF source column of Appendix B. The "No EF for SCC" notation will display in the provisional calculation columns of the HAP Emissions tab in the PCWP ICR. Similarly, there are no HAP emission factors for many pollutants, either because no HAP data were available for emission factor development or because all of the available HAP factors were BDL. HAP compounds without emission factors are labeled "No EF for pollutant" in the provisional calculation columns of the HAP Emissions tab in the PCWP ICR. Respondents having additional information quantifying HAP emissions for a given process unit with an SCC labeled "No EF for SCC" or "No EF for pollutant" would be expected to enter their own sitespecific estimates of HAP emissions, particularly if the HAP emissions are significant enough to have be included in a permit or existing HAP emissions inventory. Alternatively, if there is no reason to expect HAP compound emissions from the process unit with a SCC labeled "No EF for SCC" or "No EF for pollutant" then the respondent may choose not to enter any HAP emissions estimate for the process unit or HAP compound based on their engineering judgement. The most significant HAP emissions in the PCWP source category are associated with process units that heat wood (e.g., dryers, presses).

2. Matching the SCCs with Emission Factors

The AP-42 background documentation spreadsheets available at (https://www3.epa.gov/ttn/chief/ap42/ch10/index.html) were used as the first step in mapping relevant emission factors to the revised SCCs. Each emission factor set was matched based on the numeric SCC when possible, resulting in approximately 50 direct matches. This step is reflected in the "Emission Factor Grouping (AP-42) exact SCC match" column in **Appendix B**. In this column, N/A means additional effort was needed to identify an emission factor matching the SCC, either because the numeric SCC had changed with the recent SCC revisions or because no exactly-matching AP-42 emission factor was available.

Next, the SCC descriptions were reviewed in conjunction with the emission factor descriptions in the AP-42 background documentation spreadsheets and in the AP-42 chapters. Additional directly relevant matches were identified for SCCs and emission factors.

Finally, the remaining SCCs for which no directly matching emission factors were identified were reviewed to determine if a closely-related or slightly more-conservative emission factor might apply in the absence of any other more-representative, site-specific information. In this step, attempts were made to select the most representative emission factors available, erring on the conservative side to avoid the underestimation of emissions. Where a comparable factor was not available, a conservative approach was taken and the next higher emission factor was used. For example, if no direct-natural gas fired dryer emission factor was in AP-42, but there was a direct wood-fired emission factor for the dryer, the wood fired emission factor was applied. The following conservative substitution assumptions were used:

- Substitution of a softwood emission factors for units processing mixed or hardwood species.
- Substitution of a mixed-species emissions factors for units processing hardwoods.
- Substitution of a direct-wood fired emission factors for direct-gas fired process units.
- Substitution of a direct-wood or direct-gas fired emission factors for indirect-fired process units.
- Substitution of emission factors for formaldehyde-containing resin for process units using non-UF or non-PF resin.
- Substitution of emission factors for blowline blend for non-blowline blend.
- Substitution of emission factors for batch press for continuous presses.
- Substitution of emission factors for dry hardboard press for wet hardboard press.
- Substitution of emission factors for related products (e.g., OSB vs LSL; LVL vs PSL, SPW for LVL). When crossing product types, the presence of formaldehyde in the adhesive and dryer firing method was considered. It was presumed that:
 - o Formaldehyde emissions were greater according to the hierarchy of: UF > PF > No HCHO (ex. MDI), and
 - O Dryer emissions were greater according to the hierarchy of: direct wood fired > direct natural gas fired > indirect heat.

It is acknowledged that variability in emissions can mask the effects of any of the above variables. Also, given the combination of multiple process characteristics reflected in some of

the available emission factors, in many cases there is no clear way to distinguish which emission factors may be the most conservative (e.g., for hardboard dryers there are multiple competing process characteristics including blend method, softwood/hardwood, firing method, and resin type).

The "Related AP-42 EF to use in absence of more-representative data" column in **Appendix B** of this document includes a description of the most-closely related emission factor included in the provisional calculations. This column is provided in the provisional calculation columns of the *HAP Emissions* tab in the PCWP ICR in order for respondents to judge whether the provisional calculations are based on an emission factor sufficiency representative of their process unit in the absence of more-representative, site-specific information. Respondents are given the option to insert and substitute a more-representative emission factor into the provisional calculations if they have a better emission factor available to them.

Some of the related emission factors require conversions for the production units of measure (e.g., to convert from one panel thickness basis to another). A "scalar" column is included in the *HAP emissions* tab for this purpose. **Appendix D** provides a table showing the scalar factors included in the provisional calculations.

The PCWP ICR instructions document provides a lengthy description of how the provisional calculations work and presents the formulas used to calculate emissions. The calculations include the provisional emission factor, unit of measure scalar, process unit production rate, control efficiency (if applicable), a release point apportionment fraction (for process units with multiple release points), and a conversion from pounds to tons. **Appendix E** contains a table showing the numeric emission factors included in the provisional calculations.

3. Lumber kiln emission factors

No AP-42 emission factors are available for lumber kilns. Therefore, a comparison of lumber kiln emission factors from various references was conducted. Emission factors from NCASI were found to align with the various references and were included in the provisional calculations for the lumber kiln SCCs.

C. HAP Metal Emission Factors

Direct-fired dryers may have burners integral to the dryers (e.g., rotary dryers) or standalone combustion units that exhaust through the dryers. It is anticipated that there could be HAP metals emissions associated with combustion of fuels in direct-fired PCWP dryers. Fuel types used in the PCWP industry include:

- Resin free wood, sawdust or bark
- Trim/sawdust containing resin
- Natural gas
- Propane
- Residual/distillate oil
- Other materials used uncommonly such as waste water residuals, used oil, blender cleanings, spray booth solids

Of the fuels listed above, biomass fuels and natural gas are by far the most common. Coal is not used as a PCWP direct-fired dryer fuel. Of the PCWP fuels used, only biomass and fuel oil are expected to have measurable amounts of HAP metals emissions. Use of fuel oil in the PCWP industry is limited.

The EPA is not aware of any HAP metals emissions test data for PCWP direct-fired dryers. However, fuel analysis data for biomass combustion in boilers is available and, in the absence of better information, is reasonably transferable to combustion of these fuels in PCWP dryers for purposes of developing emission estimates for the EPA's residual risk analysis. However, boiler data would not be useful for setting metals emissions limits for dryers. Actual metals emissions data from dryers would be needed for this purpose or a PM-surrogate could be considered.

Fuel analysis data from the May 2012 Boiler MACT emission data base was queried based on NAICS 321 for the combustion unit types most relevant to direct-fired dryer combustion units burning forest biomass (stoker/sloped grate and suspension burner). The average standardized concentration in milligrams per gram of fuel (mg/g) and the standardized fuel-based emission factor in pounds per million Btu (lb/MMBtu) are summarized in Table 3 along with the non-detect rate. As a conservative measure (more likely to overestimate emissions), detection limit values available for non-detect samples were included in the averages presented in Table 3. The uncontrolled lb/MMBtu values in Table 3 can be coupled with facility-specific PM control efficiency (if known) to estimate HAP metals emissions from PCWP direct-fired dryers. Assuming a PM collection efficiency of 99 percent, the emission rates in Table 3 were found to compare reasonably with emission factors presented in NCASI Technical Bulletin 1013⁴ for HAP metals from biomass boilers of various designs and control devices. The emission factors derived from the boiler MACT data also compare favorably to those in AP-42 Chapter 1.6, though it is noted that the AP-42 factors represent a mixture of controlled and uncontrolled data.

The biomass emission factors in Table 3 were included in the provisional calculations to estimate direct wood-fired emissions for the following types of dryers: dry rotary dryers, green rotary dryers, primary tube dryers, softwood veneer dryers, and rotary strand dryers. If other types of dryers are direct-wood fired, facilities may use the emission factors in Table 3 to estimate emissions on a facility-specific basis.

For oil-fired PCWP dryers, uncontrolled emission factors from the AP-42 section 1.3⁵ for residual fuel oil combustion in boilers can be coupled with facility-specific PM control efficiency (if known) to estimate HAP metals emissions. These emission factors were converted to lb/MMBtu using an average heating value of 0.145 MMBtu per gallon as shown in Table 4. Facilities may use these emission factors for direct oil-fired dryers. The oil-fired emissions

⁴ National Council for Air and Stream Improvement. *A Comprehensive Compilation and Review of Wood-Fired Boiler Emissions*. Technical Bulletin 1013, March 2013.

⁵AP 42, Fifth Edition, Volume I. Section 1.3: Fuel Oil Combustion, Supplement E September 1999, corrected May 2010. https://www3.epa.gov/ttn/chief/ap42/ch01/final/c01s03.pdf

factors were not programed into the provisional calculations because there are no PCWP SCC codes specific to oil firing.

In the absence of site-specific control efficiency information, suggested default control efficiencies for purposes of PCWP direct-fired process unit metal HAP estimates are as follows:

- Wet or dry electrostatic precipitator or baghouse 99%
- Mechanical collector cyclone or multiclone 90%
- Wet scrubber 95%

These values are based on review of control technology fact sheets.⁶

The toxicity of chromium and mercury is largely dependent on the oxidation state of these compounds, and is an important factor in evaluating the health effects from exposure to chromium and mercury compounds. Chromium (Cr) exists in several different oxidation states, but the most stable and most commonly found are hexavalent chromium (Cr⁺⁶ valence state) (or Cr VI) and trivalent chromium (Cr⁺³ valence state) (or Cr III). The most common mercury species are divalent mercury (Hg⁺²) (including both particulate and gaseous forms) and elemental gaseous mercury (Hg⁰). In the absence of data on the specific oxidation state of chromium or mercury, emissions data reported can be speciated using the NEI default multipliers of 0.2 for particulate divalent mercury, 0.3 for gaseous divalent mercury, and 0.5 for elemental gaseous mercury. Only particulate divalent mercury would be coupled with a PM control device efficiency for purposes of estimating emissions. The default multipliers for PCWP SCC codes of 0.28 for hexavalent chromium (Cr IV) and 0.72 for trivalent chromium (Cr III) may be used. Emission factors adjusted with these multipliers are presented in Tables 3 and 4.

Table 3. Summary of HAP Metals Provided in the 2012 Boiler Fuel Analysis Data Set for Stoker/Sloped Grate Boilers and Suspension Burners for

NAICS 321: Wood Products Manufacturing

	Concentration				
HAP metal	mg/g	mg/kg	ND rate	lb/MMBtu	lb/MMBtu
				(uncontrolled)	(99% control)
Antimony (Sb)	0.000364	0.36	73%	4.21E-05	4.21E-07
Arsenic (As)	0.001053	1.1	47%	1.11E-04	1.11E-06
Beryllium (Be)	0.000225	0.22	54%	2.10E-05	2.10E-07
Cadmium (Cd)	0.000233	0.23	20%	2.44E-05	2.44E-07
Chromium (Cr)	0.001231	1.2	13%	1.66E-04	1.66E-06
Cr IV				$4.66E-05^{1}$	
Cr III				1.20E-04 ¹	
Cobalt (Co)	0.000235	0.23	32%	2.69E-05	2.69E-07
Lead (Pb)	0.000761	0.76	31%	8.29E-05	8.29E-07
Manganese (Mn)	0.347037	347	0.3%	3.97E-02	3.97E-04
Mercury (Hg)	0.001441	1.4	17%	1.66E-04	1.66E-06
Particulate Hg ⁺²				$3.32E-05^{1}$	

⁶ Air Pollution Control Technology Fact Sheets available at https://www.epa.gov/catc/clean-air-technology-centerproducts#factsheets

	Concentration				
HAP metal	mg/g	mg/kg	ND rate	lb/MMBtu	lb/MMBtu
				(uncontrolled)	(99% control)
Gaseous Hg ⁺²				$4.98E-05^{1}$	
Elemental gaseous Hg				$8.31E-05^{1}$	
Nickel (Ni)	0.003777	3.8	16%	4.51E-04	4.51E-06
Selenium (Se)	0.017402	17	52%	2.01E-03	2.01E-05

^{1.} Speciated based on the chromium and mercury emission factors using default multipliers as described above.

Table 4. Summary of HAP Metals Provided in AP-42 Section 1.3 for Residual Oil Fired Boilers

HAP metal	lb/1000 gal	lb/MMBtu ¹
	(uncontrolled)	(uncontrolled)
Antimony (Sb)	5.25E-03	3.62E-05
Arsenic (As)	1.32E-03	9.10E-06
Beryllium (Be)	2.75E-05	1.90E-07
Cadmium (Cd)	3.98E-04	2.74E-06
Chromium (Cr)	8.45E-04	5.83E-06
Cr IV	2.48E-04	1.71E-06
Cr III		$4.12E-06^2$
Cobalt (Co)	6.02E-03	4.15E-05
Lead (Pb)	1.51E-03	1.04E-05
Manganese (Mn)	3.00E-03	2.07E-05
Mercury (Hg)	1.13E-04	7.79E-07
Particulate Hg ⁺²		$1.56E-07^3$
Gaseous Hg ⁺²		$1.17E-04^3$
Elemental gaseous Hg		9.42E-07 ³
Nickel (Ni)	8.45E-02	5.83E-04
Selenium (Se)	6.83E-04	4.71E-06

^{1.} Converted to lb/MMBtu using a heating value of 0.145 MMBtu per gallon.

The PCWP ICR Instructions document describes the formulas used in the provisional calculations for metals. Because only biomass firing is included in the calculations, the dryer heat input (MMBtu/hr) associated with biomass is determined from elsewhere in the spreadsheet. Respondents are asked to provide a value for PM control efficiency. The heat input is multiplied by the emission factor (lb/MMBtu), control efficiency, and the process unit operating hours reported in the ICR. A release point apportionment fraction (for process units with multiple release points) is applied and emissions are converted to tons per year.

III. Summary

This memorandum explains the methods used to assign and apply available emission factors in a Provisional Calculation Tool included in the PCWP ICR. The tool is comprised of calculations within the *HAP Emissions* tab of the ICR. Use of the provisional calculations is

^{2.} Calculated as the difference between the AP-42 emission factors for Cr and Cr VI.

^{3.} Speciated based on the chromium and mercury emission factors using default multipliers as described above.

optional. The tool is intended to aid facilities that either do not maintain HAP emissions inventories or do not have site-specific or more-representative data.

Appendix A. SCC Codes Removed from the ICR

The following wood products industry SCCs covering green-end wood handling and lumber processing operations other than drying and are not relevant for the PCWP ICR.

PCWP	SCC	SCC Level Four
		Combined Process Unit Type Dust Collection: Green Wood Material:
PB	30700693	Softwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
PB	30700694	Hardwood
plywood	30700723	Sawing Operations: Green Veneer Trimming: Hardwood
plywood	30700724	Sawing Operations: Green Veneer Trimming: Softwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
plywood	30700775	Softwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
plywood	30700776	Hardwood
plywood	30700790	Hammermill/Chipper: Green Wood Material: Softwood
plywood	30700795	Hammermill/Chipper: Green Wood Material: Hardwood
plywood	30700796	Hammermill/Chipper: Mixed Green and Dry Wood Material
lumber	30700801	Log Debarking
lumber	30700802	Log Sawing
lumber	30700803	Sawdust Pile Handling
lumber	30700804	Sawing: Cyclone Exhaust
lumber	30700805	Planing/Trimming: Cyclone Exhaust
lumber	30700806	Sanding Operations: Cyclone Exhaust
lumber	30700808	Other Operations: Cyclone Exhaust
lumber	30700809	Other Operations: Cyclone Exhaust: Green Wood Material: Softwood
lumber	30700810	Other Operations: Cyclone Exhaust: Green Wood Material: Hardwood
lumber	30700811	Other Operations: Cyclone Exhaust: Dry Wood Material
		Other Operations: Cyclone Exhaust: Mixed Green and Dry Wood
lumber	30700812	Material
lumber	30700818	Chipping and Screening: Softwood
lumber	30700819	Chipping and Screening: Hardwood
lumber	30700820	Chipping and Screening
lumber	30700821	Chip Storage Piles
lumber	30700822	Chip Transfer/Conveying
lumber	30700825	Chip Transfer/Conveying: Softwood
lumber	30700826	Chip Transfer/Conveying: Hardwood
lumber	30700827	Chip Storage Piles: Softwood
lumber	30700828	Chip Storage Piles: Hardwood
lumber	30700893	Log Storage: Softwood
lumber	30700894	Log Storage: Hardwood
lumber	30700895	Log Storage
lumber	30700897	Softwood Sawmill Operations: Other Not Classified
lumber	30700898	Hardwood Sawmill Operations: Other Not Classified
lumber	30700899	Other Not Classified
		Combined Process Unit Type Dust Collection: Green Wood Material:
MDF	30700992	Softwood

PCWP	SCC	SCC Level Four
		Combined Process Unit Type Dust Collection: Green Wood Material:
MDF	30700993	Hardwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
OSB	30701065	Softwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
OSB	30701066	Hardwood
OSB	30701081	Waferizer/Strander
OSB	30701082	Hammermill/Chipper: Green Wood Material: Softwood
OSB	30701083	Hammermill/Chipper: Green Wood Material: Hardwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
HB	30701491	Softwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
HB	30701492	Hardwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
FB	30701565	Hardwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
FB	30701566	Softwood
LVL	30701621	Hammermill/Chipper: Green Wood Material: Softwood
LVL	30701622	Hammermill/Chipper: Green Wood Material: Hardwood
LVL	30701625	Sawing Operations: Green Veneer Trimming: Hardwood
LVL	30701626	Sawing Operations: Green Veneer Trimming: Softwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
LVL	30701631	Softwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
LVL	30701632	Hardwood
LSL	30701726	Strander
LSL	30701732	Hammermill/Chipper: Green Wood Material: Softwood
LSL	30701733	Hammermill/Chipper: Green Wood Material: Hardwood
PSL	30701763	Hammermill/Chipper: Green Wood Material: Softwood
PSL	30701764	Hammermill/Chipper: Green Wood Material: Hardwood
PSL	30701768	Sawing Operations: Green Veneer Trimming
		Combined Process Unit Type Dust Collection: Green Wood Material:
PSL	30701770	Softwood
		Combined Process Unit Type Dust Collection: Green Wood Material:
PSL	30701771	Hardwood

Appendix B. Crosswalk of SCCs and Emission Factor Sets

PCWP SCCs by Products and Process Unit Type			Provisional calculation information					
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
РВ	30700635	Dry Rotary Dryer: Indirect- heated: <600F Inlet air, <30%MC: Softwood	Dry rotary dryer	PB, rotary, indirect heated with auxiliary natural gas, softwood	Particleboard, rotary, indirect heated with auxiliary natural gas, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde, Methanol
РВ	30700636		Dry rotary dryer	#N/A	Particleboard, rotary, indirect heated with auxiliary natural gas, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde, Methanol
РВ	30700637	Dry Rotary Dryer: Indirect- heated: <600F Inlet air, <30%MC: Mixed Softwood/Hardwood	Dry rotary dryer	#N/A	Particleboard, rotary, indirect heated with auxiliary natural gas, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde, Methanol
РВ	30700641	Former Operations: Urea Formaldehyde Resin	Former	#N/A	MDF, former without blowline blend, UF resin (includes blender emissions)	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
РВ	30700642	Former Operations: Non- Urea Formaldehyde Resin	Former	#N/A	MDF, former without blowline blend, UF resin (includes blender emissions)	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
PB	30700648		Blender	#N/A	MDF paddle blender, UF resin	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
PB	30700649	Blender: Non-Urea Formaldehyde Resin	Blender	#N/A	MDF paddle blender, UF resin	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
PB	30700651	Reconstituted Wood Products Press: Batch: Urea Formaldehyde Resin	Reconstituted wood product press	PB, press, UF resin	Particleboard, press, UF resin	AP-42, Ch 10.6.2	lb/MSF 3/4	Acetaldehyde, Acrolein Formaldehyde, Methanol, Phenol, Benzene, MIBK
PB	30700652	Reconstituted Wood Products Press: Continuous: Urea Formaldehyde Resin	Reconstituted wood product press	#N/A	Particleboard, press, UF resin	AP-42, Ch 10.6.2	lb/MSF 3/4	Acetaldehyde, Acrolein- Formaldehyde, Methanol, Phenol, Benzene, MIBK
PB	30700653	J	Reconstituted wood product press	#N/A	Particleboard, press, UF resin	AP-42, Ch 10.6.2	lb/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Benzene, MIBK
PB	30700654	Reconstituted Wood Products Press: Batch: Non-Urea Formaldehyde Resin	Reconstituted wood product press	#N/A	Particleboard, press, UF resin		lb/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Benzene, MIBK
PB	30700656	Agriculture Fiber Board Press	Agriculture fiber board press	#N/A		No EF for SCC		

PCWP SCCs by Products and Process Unit Type				Provisional calculation information			
SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
		- с ше туре		Particleboard,	AP-42, Ch		
30700657	Flaker: Hardwood	Other	#N/A	flaker/refiner/hammermill	10.6.2	lb/ODT	Methanol, Phenol
30700658	Flaker: Softwood	Other	#N/A	Particleboard, flaker/refiner/hammermill	AP-42, Ch 10.6.2	lb/ODT	Methanol, Phenol
30700660	Board Cooler: Non-Urea Formaldehyde Resin	Reconstituted wood product board cooler	#N/A	Particleboard, board cooler, UF resin	AP-42, Ch 10.6.2	lb/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, MIBK
30700661	Board Cooler: Urea Formaldehyde Resin	Reconstituted wood product board cooler	PB board cooler, UF resin	Particleboard, board cooler, UF resin	AP-42, Ch 10.6.2	lb/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Benzene, MIBK
30700662	Refiner: Green Wood Material: Hardwood	Atmospheric refiner	#N/A	flaker/refiner/hammermill	10.6.2	lb/ODT	Methanol, Phenol
30700663	Refiner: Dry Wood Materials	Atmospheric refiner	#N/A	Particleboard, flaker/refiner/hammermill	AP-42, Ch 10.6.2	lb/ODT	Methanol, Phenol
30700664	Refiner: Green Wood Material: Softwood	Atmospheric refiner	PB flaker/refiner/hamm ermill	Particleboard, flaker/refiner/hammermill	AP-42, Ch 10.6.2	lb/ODT	Methanol, Phenol
30700665		Finishing sander	PB sander	Particleboard, sander	10.6.2	lb/MSF	Methanol, Phenol
30700666	Green Wood Material	Atmospheric refiner	#N/A	Particleboard, flaker/refiner/hammermill	10.6.2	lb/ODT	Methanol, Phenol
30700667	Formaldehyde Resin	Finishing sander	#N/A	Particleboard, sander	10.6.2	lb/MSF	Methanol, Phenol
30700668		Finishing sander	#N/A	Particleboard, sander		lb/MSF	Methanol, Phenol
	Dry Rotary Dryer: Direct Wood-fired: <600F Inlet air,			Particleboard, Rotary dryer,	AP-42, Ch		HAP metals, Acetaldehyde, Acrolein, Acetophenone, Benzene, Biphenyl, Bis-(2- ethylhexyl phthalate), Bromomethane, Carbon disulfide, Carbon tetrachloride, Chloromethane, Cumene, Dibutylphthalate, Ethyl benzene, Formaldehyde, Hydroquinone, xylenes, methanol, Methylene chloride, MIBK, n-Hexane, Propionaldehyde, Styrene, Toluene, Phenol, 1,1,1- Trichloroethane
	30700657 30700658 30700660 30700661 30700663 30700664 30700665 30700666 30700667 30700668	SCC SCC Level Four 30700657 Flaker: Hardwood 30700658 Flaker: Softwood Board Cooler: Non-Urea Formaldehyde Resin Board Cooler: Urea Formaldehyde Resin Refiner: Green Wood Material: Hardwood 30700662 Refiner: Dry Wood Materials Refiner: Green Wood Material: Softwood 30700665 Sanding Operations Refiner: Mixed Dry and Green Wood Material Sanding Operations: Urea Formaldehyde Resin Sanding Operations: Non-Urea Formaldehyde Resin Dry Rotary Dryer: Direct Wood-fired: <600F Inlet air,	SCC SCC Level Four 30700657 Flaker: Hardwood 30700658 Flaker: Softwood Board Cooler: Non-Urea Board Cooler: Urea Board Cooler Board Cooler: Urea Board Cooler: Urea Board Cooler: Urea Board Cooler: Urea Board Cooler: Veren Board Cooler: Veren Board Cooler Board Cooler: Veren Board Cooler Board Co	SCC SCC Level Four ICR Process Unit Type Emission Factor Grouping (AP-42) exact SCC match 30700657 Flaker: Hardwood Other #N/A 30700658 Flaker: Softwood Other #N/A Board Cooler: Non-Urea Wood product board cooler #N/A Board Cooler: Urea Wood product board cooler #N/A Reconstituted Wood product board cooler #N/A Reconstituted Wood product board cooler #N/A Refiner: Green Wood Atmospheric refiner #N/A 30700663 Refiner: Dry Wood Materials refiner #N/A Refiner: Green Wood Material: Softwood refiner #N/A 30700665 Sanding Operations Finishing sander Atmospheric refiner #N/A Refiner: Mixed Dry and Green Wood Material Sanding Operations: Urea Formaldehyde Resin Finishing sander #N/A Sanding Operations: Urea Finishing sander #N/A Sanding Operations: Non-30700668 Urea Formaldehyde Resin Finishing sander #N/A Dry Rotary Dryer: Direct Wood-fired: <600F Inlet air,	SCC SCC Level Four	SCC SCC Level Four ICR Process Unit Type Crouping (AP-42) exact SCC match absence of more representative data EF source AP-42, Ch Backer/refiner/hammermill 10.6.2 AP-42, Ch AP-42	SCC SCC Level Four Unit Type 30700657 Flaker: Hardwood Other #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700658 Flaker: Softwood Other #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700658 Flaker: Softwood Other #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700659 Flaker: Softwood Other #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700650 Formaldehyde Resin board cooler #N/A UF resin 10.6.2 3/4 Reconstituted wood product board cooler; Whi/A UF resin 10.6.2 3/4 Refiner: Green Wood Atmospheric refiner #N/A flaker/refiner/hammermill 10.6.2 3/4 30700663 Refiner: Dry Wood Materials refiner Feiner #N/A flaker/refiner/hammermill 10.6.2 lb/ODT Refiner: Green Wood Atmospheric refiner #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700664 Material: Softwood refiner refiner #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700665 Sanding Operations Finishing sander Refiner: Mixed Dry and Atmospheric refiner #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700665 Sanding Operations Finishing sander Refiner: Mixed Dry and Atmospheric refiner #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700666 Sanding Operations: Urea Sanding Operations: Urea Sanding Operations: Non-Urea Finishing sander Finishing sander #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700668 Urea Formaldehyde Resin Finishing sander Finishing sander #N/A flaker/refiner/hammermill 10.6.2 lb/ODT 30700668 Dry Rotary Dryer: Direct Wood-fired: -6000 flulet air, Particleboard, Rotary dryer, AP-42, Ch lb/MSF

PCWP SCCs by Products and Process Unit Type			Provisional calculation information					
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
DD.	20700471	Dry Rotary Dryer: Direct Wood-fired: <600F Inlet air,	Duri notoni duron	4N/A	Particleboard, Rotary dryer,	AP-42, Ch	IL/ODT	HAP metals, Acetaldehyde, Acrolein, Acetophenone, Benzene, Biphenyl, Bis-(2- ethylhexyl phthalate), Bromomethane, Carbon disulfide, Carbon tetrachloride, Chloromethane, Cumene, Dibutylphthalate, Ethyl benzene, Formaldehyde, Hydroquinone, xylenes, methanol, Methylene chloride, MIBK, n-Hexane, Propionaldehyde, Styrene, Toluene, Phenol, 1,1,1-
PB	30700671	230%MC: Softwood Dry Rotary Dryer: Direct Wood-fired: <600F Inlet air, <30%MC: Mixed Softwood/Hardwood	Dry rotary dryer Dry rotary dryer	#N/A	Particleboard, Rotary dryer, direct wood-fired, softwood	AP-42, Ch 10.6.2	lb/ODT	Trichloroethane Acetaldehyde, Acrolein, Acetophenone, Benzene, Biphenyl, Bis-(2-ethylhexyl phthalate), Bromomethane, Carbon disulfide, Carbon tetrachloride, Chloromethane, Cumene, Dibutylphthalate, Ethyl benzene, Formaldehyde, Hydroquinone, xylenes, methanol, Methylene chloride, MIBK, n-Hexane, Propionaldehyde, Styrene, Toluene, Phenol, 1,1,1- Trichloroethane, HAP metals
rb	30/000/2	Dry Rotary Dryer: Direct Natural Gas-fired: <600F Inlet air, <30%MC:	Dry rotary dryer	#IN/A	Particleboard, Rotary dryer, direct natural gas-fired,	AP-42, Ch	10/OD1	Trichioroethane, riAr metais
PB	30700673	Hardwood	Dry rotary dryer	#N/A	hardwood	10.6.2	lb/ODT	Formaldehyde
PB	30700674	Dry Rotary Dryer: Direct Natural Gas-fired: <600F Inlet air, <30%MC: Softwood	Dry rotary dryer	#N/A	Particleboard, Rotary dryer, direct natural gas-fired, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde, Methanol
PB	30700675	Dry Rotary Dryer: Direct Natural Gas-fired: <600F Inlet air, <30%MC: Mixed Softwood/Hardwood	Dry rotary dryer	#N/A	Particleboard, Rotary dryer, direct natural gas-fired, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde, Methanol

PCWP SCCs by Products and Process Unit Type			Provisional calculation information					
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
РВ	30700676	Green Rotary Dryer: Direct Wood-fired: Hardwood	Green rotary dryer	#N/A	Particleboard, green dryer, rotary, direct wood-fired, mixed wood species (40-60% softwood, 40-60% hardwood)	AP-42, Ch 10.6.2	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Methylene chloride, Styrene, Toluene, Xylenes, HAP metals
РВ	30700677	Green Rotary Dryer: Direct Wood-fired: Softwood	Green rotary dryer	#N/A	Particleboard, green dryer, rotary, direct wood-fired, softwood	AP-42, Ch 10.6.2	lb/ODT	Acetaldehyde, Acrolein- Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Chloroform, Cumene, MIBK, Methylene chloride, Styrene, Toluene, Xylenes, HAP metals
РВ	30700678	Green Rotary Dryer: Direct Wood-fired: Mixed Softwood/Hardwood	Green rotary dryer	#N/A	Particleboard, green dryer, rotary, direct wood-fired, mixed wood species (40-60% softwood, 40-60% hardwood)	AP-42, Ch 10.6.2	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Methylene chloride, Styrene, Toluene, Xylenes, HAP metals
PB	30700679	Green Rotary Dryer: Direct Natural Gas-fired: Hardwood	Green rotary dryer	#N/A	Particleboard, green dryer, rotary, direct natural gas- fired, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde
PB	30700680	Green Rotary Dryer: Direct Natural Gas-fired: Softwood	Green rotary dryer	#N/A	Particleboard, green dryer, rotary, direct natural gas- fired, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde
PB	30700681	Green Rotary Dryer: Direct Natural Gas-fired: Mixed Softwood/Hardwood	Green rotary dryer	#N/A	Particleboard, green dryer, rotary, direct natural gas- fired, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde
РВ	30700682	Green Rotary Dryer: Indirect- heated: Hardwood	Green rotary dryer	#N/A	Particleboard, Rotary dryer, indirect heated with auxiliary natural gas, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde, Methanol
PB	30700683	Green Rotary Dryer: Indirect- heated: Softwood	Green rotary dryer	#N/A	Particleboard, Rotary dryer, indirect heated with auxiliary natural gas, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde, Methanol

PCWP SCCs by Products and Process Unit Type				Provisional calculation information				
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
PB	30700684	Green Rotary Dryer: Indirect- heated: Mixed	Green rotary dryer	#N/A	Particleboard, Rotary dryer, indirect heated with auxiliary natural gas, softwood	AP-42, Ch 10.6.2	lb/ODT	Formaldehyde, Methanol
PB	30700685	Agriculture Fiber Rotary Dryer	Rotary agricultural fiber dryer	#N/A		No EF for SCC		
PB	30700686	Panel Trim Hammermill/Chipper	Panel trim	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
РВ	30700687	Sawing Operations: Pre- Press: Urea Formaldehyde Resin	Finishing saw	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
РВ	30700688	Sawing Operations: Pre- Press: Non-Urea Formaldehyde Resin	Finishing saw	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
РВ	30700689	Sawing Operations: Post- Press: Pre-Board Cooler: Urea Formaldehyde Resin	Finishing saw	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
PB	30700690	Sawing Operations: Post- Press: Pre-Board Cooler: Non-Urea Formaldehyde Resin	Finishing saw	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
РВ	30700691	Sawing Operations: Post- Board Cooler: Urea Formaldehyde Resin	Finishing saw	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
PB	30700692	Sawing Operations: Post- Board Cooler: Non-Urea Formaldehyde Resin	Finishing saw	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
PB	30700695		Other	#N/A	PB flaker/refiner/hammermill	AP-42, Ch 10.6.2	lb/ODT	Methanol, Phenol
PB	30700696	Combined Process Unit Type Dust Collection: Mixed Dry and Green Wood Material	Other	#N/A	PB flaker/refiner/hammermill	AP-42, Ch 10.6.2	lb/ODT	Methanol, Phenol

PCWP SC	Cs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more	EF source	EF units	Pollutants with Provisional
rcwr	SCC	SCC Level Four	Unit Type Resin storage	exact SCC match	representative data	No EF for	units	Calculations Available ²
PB	30700697	Resin Storage Tanks	tank	#N/A		SCC		
1 D	30700077	Miscellaneous Coating	Miscellaneous	π1 \ //Δ		No EF for		
PB	30700698	Operations Coating	coating operation	#N/A		SCC		
T D	30700090	Operations	coating operation	111111		No EF for		
PB	30700699	Other Not Classified	Other	#N/A		SCC		
12	20,00033	o mor i tot diaddire	0 11101	77.7.7.2	SPW sander (8-drum sander,	555		
					1-drum sander, & specialty	AP-42, Ch	lb/MSF	Acetaldehyde, Formaldehyde,
plywood	30700702	Sanding Operations	Finishing sander	#N/A	saw)	10.5	3/8	Methanol
1 3		Sawing Operations: Dry			Softwood plywood saws			
1		Veneer and Plywood			(includes 3 saws, hog, and	AP-42, Ch	lb/MSF	Acetaldehyde, Formaldehyde,
plywood	30700710		Finishing saw	#N/A	sander)	10.5	3/8	Methanol
		Veneer Redryer: Steam-			Radio frequency heated	AP-42, Ch	lb/MSF	Acetaldehyde, Formaldehyde,
plywood	30700720		Veneer redryer	#N/A	redryer, softwood	10.5	3/8	Methanol
		Veneer Laying and Glue				No EF for		
plywood	30700727	Spreading	Other	#N/A		SCC		
plywood		Log Steaming Vat Resin Storage Tanks	Log vat Resin storage tank	#N/A #N/A	SPW log steaming vat (process rate = volume of wood removed from vat per hour)	AP-42, Ch 10.5 No EF for SCC	1b/MSF 3/8	Acetaldehyde, Methanol
prywood	30700732	Resili Storage Taliks	tank			Sec		
plywood	30700734	Hardwood Veneer Dryer: Direct Wood-fired: Heated Zones	Hardwood veneer dryer	HPW, veneer, direct wood-fired, hardwood (heated zones)	HPW, veneer, direct wood- fired, hardwood (heated zones)	AP-42, Ch 10.5	1b/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, HAP metals
plywood	30700735	Hardwood Veneer Dryer: Direct Wood-fired: Cooling Section	Hardwood veneer dryer	HPW, veneer, direct wood-fired, hardwood (cooling section)	HPW, veneer, direct wood- fired, hardwood (cooling section)	AP-42, Ch 10.5 (All EF BDL)		
plywood	30700736		Softwood veneer dryer	SPW, veneer, direct wood-fired, softwood (heated zones)	SPW, veneer, direct wood- fired, softwood (heated zones) SPW, veneer, direct natural	AP-42, Ch 10.5	lb/MSF 3/8	Formaldehyde, HAP metals
plywood	30700737	Softwood Veneer Dryer: Direct Wood-fired: Cooling Section	Softwood veneer dryer	#N/A	gas-fired, softwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol

PCWP SC	Cs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
plywood	30700752	Softwood Veneer Dryer: Direct Natural Gas-fired: Heated Zones	Softwood veneer dryer	SPW, veneer, direct natural gas-fired, softwood (heated zones)	SPW, veneer, direct natural gas-fired, softwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Acrolein Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes
plywood	30700753	E	Softwood veneer dryer	SPW, veneer, direct natural gas-fired, softwood (cooling section)	SPW, veneer, direct natural gas-fired, softwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol
plywood	30700754	Hardwood Veneer Dryer: Direct Natural Gas-fired: Heated Zones	Hardwood veneer dryer	#N/A	HPW, veneer, direct wood- fired, hardwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol
plywood	30700755	Hardwood Veneer Dryer: Direct Natural Gas-fired: Cooling Section	Hardwood veneer dryer	#N/A	HPW, veneer, direct wood- fired, hardwood (cooling section)	AP-42, Ch 10.5 (All EF BDL)		
plywood	30700756	Hardwood Veneer Dryer: Indirect-heated: Heated Zones	Hardwood veneer dryer	HPW, veneer, indirect heated, hardwood (heated zones)	HPW, veneer, indirect heated, hardwood (heated zones)	AP-42, Ch 10.5	1b/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK
plywood	30700757	Hardwood Veneer Dryer: Indirect-heated: Cooling Section	Hardwood veneer dryer	HPW, veneer, indirect heated, hardwood (cooling section)	HPW, veneer, indirect heated, hardwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, MIBK
plywood	30700762	Softwood Veneer Dryer: Indirect-heated: Heated Zones	Softwood veneer dryer	SPW, veneer, indirect heated, softwood (heated zones)	SPW, veneer, indirect heated, softwood (heated zones)	AP-42, Ch 10.5	1b/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK, Acrolein, Propionaldehyde, Benzene, Toluene, Xylenes
plywood	30700763		Softwood veneer dryer	SPW, veneer, indirect heated, softwood (cooling section)	SPW, veneer, indirect heated, softwood (cooling section)	10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK, Xylenes
plywood	30700770	Veneer Redryer: Radio Frequency-heated: Hardwood	Veneer redryer	#N/A	SPW, veneer, RF heated, softwood	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol
plywood	30700771	Veneer Redryer: Radio Frequency-heated: Softwood	Veneer redryer	SPW, veneer, RF heated, softwood	SPW, veneer, RF heated, softwood	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol
plywood	30700773		Other	#N/A		No EF for SCC		
plywood	30700777	Combined Process Unit Type Dust Collection: Dry Wood Material	Other	#N/A	SPW skinner & equalizer saws (3 saws, hog, and sander)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol

PCWP SC	Cs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
plywood	30700778	Combined Process Unit Type Dust Collection: Mixed Dry and Green Wood Material	Other	#N/A	SPW skinner & equalizer saws (3 saws, hog, and sander)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol
plywood	30700782	Press: Non-Phenol Formaldehyde Resin: Softwood	Softwood plywood press	#N/A	Softwood Plywood, press, PF resin	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK
plywood	30700783		Softwood plywood press	Softwood Plywood, press, PF resin	Softwood Plywood, press, PF resin	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK
plywood	30700784	Press: Non-Urea Formaldehyde Resin: Hardwood	Hardwood plywood press	#N/A		No EF for SCC		
plywood	30700785	Press: Urea Formaldehyde Resin: Hardwood	Hardwood plywood press	Hardwood Plywood, press, UF resin	Hardwood Plywood, press, UF resin	AP-42, Ch 10.5	1b/MSF 3/8	Formaldehyde, Methanol, Phenol, MIBK
plywood	30700791	Hammermill/Chipper: Dry Wood Material	Panel trim	SPW dry trim chipper (chips dry trim from SPW panel saws; process rate = finished board production)	SPW dry trim chipper (chips dry trim from SPW panel saws; process rate = finished board production)	AP-42, Ch 10.5	lb/MSF 3/8	Methanol
pry wood	30700731	Miscellaneous Coating	Miscellaneous		board production)	No EF for	3/0	Wethanor
plywood	30700794	Operations	coating operation	#N/A		SCC No EF for		
plywood	30700799	Other Not Classified	Other	#N/A		SCC NCASI		
lumber	30700841	Lumber Kiln: Indirect-heated: Softwood: Pine Species	Lumber kiln	#N/A		Emission Factors 2014	lb/MBF	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
lumber	30700842	Lumber Kiln: Indirect-heated: Softwood: Non-Pine Species	Lumber kiln	#N/A		NCASI Emission Factors 2014	lb/MBF	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
lumber	30700843	Lumber Kiln: Indirect-heated:	Lumber kiln	#N/A		NCASI Emission Factors 2014	lb/MBF	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
lumber	30700844	Lumber Kiln: Direct-fired: Softwood: Pine Species	Lumber kiln	#N/A		NCASI Emission Factors 2014	lb/MBF	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
lumber	30700845	Lumber Kiln: Direct-fired: Softwood: Non-Pine Species	Lumber kiln	#N/A		NCASI Emission Factors 2014	lb/MBF	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
		Lumber Kiln: Direct-fired:				NCASI Emission Factors		Acetaldehyde, Acrolein, Formaldehyde, Methanol,
lumber	30700846	Hardwood Pressurized Refiner/Primary Tube Dryer: Direct Natural Gas-fired: Blowline Blend: Non-Urea Formaldehyde	Lumber kiln Primary tube	#N/A	MDF, tube, direct wood-fired, blowline blend, UF,	2014 AP-42, Ch	lb/MBF	Phenol, Propionaldehyde
MDF	30700909	Resin: Softwood Pressurized Refiner/Primary Tube Dryer: Direct Natural Gas-fired: Blowline Blend: Non-Urea Formaldehyde	dryer Primary tube	#N/A	MDF, tube, direct wood-fired, blowline blend, UF,	10. 6.3 AP-42, Ch	lb/ODT	Formaldehyde
MDF MDF	30700910	Resin: Hardwood Pressurized Refiner/Primary Tube Dryer: Direct Natural Gas-fired: Blowline Blend: Non-Urea Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube	#N/A #N/A	MDF, tube, direct wood-fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde Formaldehyde
MDF	30700912	Pressurized Refiner/Primary Tube Dryer: Direct Natural Gas-fired: Blowline Blend: Urea Formaldehyde Resin: Hardwood	Primary tube	#N/A	MDF, tube, direct wood- fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde
MDF	30700913	Pressurized Refiner/Primary Tube Dryer: Direct Natural Gas-fired: Blowline Blend: Urea Formaldehyde Resin: Softwood	Primary tube dryer	#N/A	MDF, tube, direct wood-fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde
MDF	30700914	Pressurized Refiner/Primary Tube Dryer: Direct Natural Gas-fired: Blowline Blend: Urea Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube dryer	#N/A	MDF, tube, direct wood- fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde

PCWP SO	CCs by Produ	ucts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
MDF	30700915	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Non-Blowline Blend: Softwood	Primary tube dryer	#N/A	MDF, tube, direct wood- fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, HAP metals
MDF	30700916	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Non-Blowline Blend: Hardwood	Primary tube dryer	#N/A	MDF, Tube dryer, direct natural gas-fired, non- blowline blend, hardwood	AP-42, Ch 10.6.3	lb/ODT	Methanol, Formaldehyde, HAP metals
MDF	30700917	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Non-Blowline Blend: Mixed Softwood/Hardwood	Primary tube dryer	#N/A	MDF, Tube dryer, direct natural gas-fired, non- blowline blend, hardwood	AP-42, Ch 10.6.3	lb/ODT	Methanol, Formaldehyde, HAP metals
MDF	30700918	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Non- Urea Formaldehyde Resin: Hardwood	Primary tube dryer	#N/A	MDF, tube, direct wood-fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, HAP metals
MDF	30700919	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Non- Urea Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube dryer	#N/A	MDF, tube, direct wood-fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, HAP metals
MDF	30700920	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Non- Urea Formaldehyde Resin: Softwood	Primary tube dryer	#N/A	MDF, tube, direct wood- fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, HAP metals
MDF	30700923	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Urea Formaldehyde Resin: Softwood	Primary tube dryer	MDF, tube, direct wood-fired, blowline blend, UF, softwood	MDF, tube, direct wood-fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, HAP metals

PCWP SO	CCs by Produ	ucts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
MDF	30700924	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Urea Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube dryer	#N/A	MDF, tube, direct wood-fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, HAP metals
MDF	30700925		Primary tube	#N/A	MDF, tube, direct wood-fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, HAP metals
MDF	30700926	Pressurized Refiner/Primary Tube Dryer: Direct Natural Gas-fired: Non-Blowline Blend: Softwood	Primary tube dryer	#N/A	MDF, tube, direct natural gas-fired, non-blowline blend, hardwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
MDF	30700927	Pressurized Refiner/Primary Tube Dryer: Direct Natural Gas-fired: Non-Blowline Blend: Hardwood	Primary tube dryer	MDF, tube, direct natural gas-fired, non-blowline blend, hardwood	MDF, tube, direct natural gas-fired, non-blowline blend, hardwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
MDF	30700928		Primary tube dryer	#N/A	MDF, tube, direct natural gas-fired, non-blowline blend, hardwood	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
MDF	30700929	Pressurized Refiner/Primary Tube Dryer: Indirect-heated: Blowline Blend: Non-Urea Formaldehyde Resin: Softwood	Primary tube	#N/A	MDF, tube, indirect heated, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK
MDF	30700930	Pressurized Refiner/Primary Tube Dryer: Indirect-heated: Blowline Blend: Non-Urea Formaldehyde Resin: Hardwood	Primary tube dryer	#N/A	MDF, tube, indirect heated, blowline blend, UF, hardwood	AP-42, Ch 10.6.3	lb/ODT	Acetaldehyde Formaldehyde
MDF	30700932	Pressurized Refiner/Primary Tube Dryer: Indirect-heated: Blowline Blend: Urea Formaldehyde Resin: Softwood	Primary tube dryer	MDF, tube, indirect heated, blowline blend, UF, softwood	MDF, tube, indirect heated, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation inform	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
		Pressurized Refiner/Primary	J					
		Tube Dryer: Indirect-heated: Blowline Blend: Non-Urea Formaldehyde Resin: Mixed	Primary tube		MDF, tube, indirect heated,	AP-42, Ch		Acetaldehyde, Formaldehyde,
MDF	30700934	Softwood/Hardwood	dryer	#N/A	blowline blend, UF, softwood	10.6.3	lb/ODT	Methanol, Phenol, MIBK
MDF	30700936	Pressurized Refiner/Primary Tube Dryer: Indirect-heated: Blowline Blend: Urea Formaldehyde Resin: Hardwood	Primary tube	MDF, tube, indirect heated, blowline blend, UF, hardwood	MDF, tube, indirect heated, blowline blend, UF, hardwood	AP-42, Ch 10.6.3	lb/ODT	Acetaldehyde, Formaldehyde
MIDI	30700930	Pressurized Refiner/Primary	dryer	Hardwood	nardwood	10.0.3	10/OD1	Acetaidenyde, Formaidenyde
MDF	30700939	Tube Dryer: Indirect-heated: Blowline Blend: Urea Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube dryer	#N/A	MDF, tube, indirect heated, blowline blend, UF, softwood	AP-42, Ch 10.6.3	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK
					MDF, second stage tube			
MDE	30700942	Secondary Tube Dryer: All	Secondary tube	#NT / A	dryer, indirect heated, softwood	AP-42, Ch	lb/ODT	Acetaldehyde, Formaldehyde,
MDF	30/00942	Indirect-fired Units	dryer	#N/A	softwood	10.6.3	Ib/OD1	Methanol, Benzene, Toluene
MDF	30700943	Secondary Tube Dryer: All Direct-fired Units	Secondary tube dryer	#N/A		No EF for SCC		
MDF	30700946	Fiber Dryers: Other	Other	#N/A		No EF for SCC		
MDF	30700947	Agriculture Fiber Rotary Dryer	Rotary agricultural fiber dryer	#N/A		No EF for SCC		
MDF	30700950	Reconstituted Wood Products Press: Continuous: Urea Formaldehyde Resin	Reconstituted wood product press	#N/A	MDF, press, UF resin	AP-42, Ch 10.6.3	1b/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK
MDF		Reconstituted Wood Products Press: Continuous: Non-Urea Formaldehyde Resin	Reconstituted wood product press	#N/A	MDF, press, UF resin	AP-42, Ch 10.6.3	lb/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK
MDF		Reconstituted Wood Products Press: Batch: Urea Formaldehyde Resin		MDF, press, UF resin	MDF, press, UF resin	AP-42, Ch 10.6.3	1b/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
MDF	30700961	Reconstituted Wood Products Press: Batch: Non-Urea Formaldehyde Resin	Reconstituted wood product press	#N/A	MDF, press, UF resin	AP-42, Ch 10.6.3	1b/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK
MDF	30700962	Agriculture Fiber Board Press	Agriculture fiber board press	#N/A		No EF for SCC		
MDF	30700971	Board Cooler: Urea Formaldehyde Resin	Reconstituted wood product board cooler	MDF board cooler, UF resin	MDF, board cooler, UF resin	AP-42, Ch 10.6.3	lb/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol
MDF	30700972	Board Cooler: Non-Urea Formaldehyde Resin	Reconstituted wood product board cooler	#N/A	MDF, board cooler, UF resin	AP-42, Ch 10.6.3	lb/MSF 3/4	Acetaldehyde, Acrolein, Formaldehyde, Methanol
MDF	30700977	Former Without Blowline Blend: Non-Urea Formaldehyde Resin	Former	#N/A	MDF former without blowline blending, UF resin (includes blender emissions)	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
MDF	30700978	Former With Blowline Blend: Non-Urea Formaldehyde Resin	Former	#N/A	MDF former without blowline blend, UF resin (includes blender emissions)	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
MDF	30700979	Blender: Non-Urea Formaldehyde Resin	Blender	#N/A		No EF for SCC		
MDF	30700980	Blender: Urea Formaldehyde Resin	Blender	MDF paddle blender, UF resin	MDF paddle blender, UF resin	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
MDF	30700981	Former Without Blowline Blend: Urea Formaldehyde Resin	Former	MDF former without blowline blend, UF resin (includes blender emissions) MDF former with	MDF, former without blowline blending, UF resin (includes blender emissions)	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
MDF	30700982	Former With Blowline Blend: Urea Formaldehyde Resin	Former	blowline blend, UF resin	MDF, former with blowline blending, UF resin	AP-42, Ch 10.6.3	lb/ODT	Formaldehyde, Methanol
MDF	30700983	Sanding Operations: Urea Formaldehyde Resin	Finishing sander	MDF sander	MDF, sander	AP-42, Ch 10.6.3	lb/MSF	Formaldehyde, Methanol, Phenol, Styrene

PCWP SO	CCs by Produ	ucts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
MDF	30700984	Sawing Operations: Pre- Press: Urea Formaldehyde Resin	Finishing saw	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
MDF	30700985	Sanding Operations: Non- Urea Formaldehyde Resin	Finishing sander	#N/A	MDF sander	AP-42, Ch 10.6.3	lb/MSF	Formaldehyde, Methanol, Phenol, Styrene
MDF	30700986	Sawing Operations: Pre- Press: Non-Urea Formaldehyde Resin	Finishing saw	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
MDF	30700987	Sawing Operations: Post- Board Cooler: Urea Formaldehyde Resin	Finishing saw	#N/A	MDF, saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
MDF	30700988	Sawing Operations: Post- Board Cooler: Non-Urea Formaldehyde Resin	Finishing saw	#N/A	MDF, saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
MDF	30700989	Sawing Operations: Post- Press: Pre-Board Cooler: Urea Formaldehyde Resin	Finishing saw	#N/A	MDF, saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
MDF	30700990	Sawing Operations: Post- Press: Pre-Board Cooler: Non-Urea Formaldehyde Resin	Finishing saw	#N/A	MDF, saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
MDF	30700991	Panel Trim Hammermill/Chipper	Panel trim chipper	#N/A	MDF, saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
MDF	30700994	Combined Process Unit Type Dust Collection: Dry Wood Material	Other	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol

PCWP SC	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
MDF	30700995	Combined Process Unit Type Dust Collection: Mixed Dry and Green Wood Material	Other	#N/A	MDF saw (reclaim saw; emission factors in lb/MSF of reclaimed [trimmed] material)	AP-42, Ch 10.6.3	lb/MSF reclaim	Methanol
MDF	30700996	Resin Storage Tanks	Resin storage tank	#N/A		No EF for SCC		
MDF	30700997	Miscellaneous Coating Operations	Miscellaneous coating operation	#N/A		No EF for SCC		
MDF	30700999	Other Not Classified	Other	#N/A		No EF for SCC		
OSB	30701009	Rotary Strand Dryer: Direct Wood-fired: Softwood	Rotary strand dryer	OSB, rotary, direct wood-fired, softwood	OSB, rotary, direct wood-fired, softwood	AP-42, Ch 10.6.1	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Cumene, MIBK, Toluene, Xylenes, HAP metals
OSB	30701010	Rotary Strand Dryer: Direct Wood-fired: Hardwood	Rotary strand dryer	OSB, rotary, direct wood-fired, hardwood	OSB, rotary, direct wood-fired, hardwood	AP-42, Ch 10.6.1	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Styrene, Toluene, HAP metals
OSB	30701015	Rotary Strand Dryer: Direct Wood-fired: Mixed Softwood/Hardwood	Rotary strand dryer	OSB, rotary, direct wood-fired, mixed wood species (40- 60% softwood, 40- 60% hardwood)	OSB, rotary, direct wood- fired, mixed wood species (40-60% softwood, 40-60% hardwood)	AP-42, Ch 10.6.1	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Propionaldehyde, HAP metals
OSB	30701020	Rotary Strand Dryer: Direct Natural Gas-fired: Hardwood	Rotary strand dryer	OSB, rotary, direct natural gas-fired, hardwood	OSB, rotary, direct natural gas-fired, hardwood	AP-42, Ch 10.6.1	lb/ODT	Formaldehyde

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
OSB	30701021	Rotary Strand Dryer: Direct Natural Gas-fired: Softwood	Rotary strand dryer	#N/A	OSB, rotary, direct wood- fired, softwood	AP-42, Ch 10.6.1	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Cumene, MIBK, Toluene, Xylenes, HAP metals
OSB	30701022	Rotary Strand Dryer: Direct Natural Gas-fired: Mixed Softwood/Hardwood	Rotary strand dryer	#N/A	OSB, rotary, direct natural gas-fired, hardwood	AP-42, Ch 10.6.1	lb/ODT	Formaldehyde
OSB	30701030	Rotary Strand Dryer: Indirect-heated: Hardwood	Rotary strand dryer	OSB, rotary, indirect-heated, hardwood		No EF for SCC		
OSB	30701031	Rotary Strand Dryer: Indirect-heated: Softwood	Rotary strand dryer	#N/A	OSB, rotary, direct wood-fired, softwood	AP-42, Ch 10.6.1	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Cumene, MIBK, Toluene, Xylenes, HAP metals
OSB	30701032	Rotary Strand Dryer: Indirect-heated: Mixed Softwood/Hardwood	Rotary strand dryer	#N/A		No EF for SCC		
OSB	30701039	Indirect-heated Conveyor Dryer, Softwoods	Conveyor strand dryer	#N/A		No EF for SCC		
OSB	30701040	Conveyor Dryer: Heated Zones: Hardwood	Conveyor strand	OSB, conveyer, indirect heated, hardwood (heated zones)	OSB, conveyer, indirect heated, hardwood (heated zones)	AP-42, Ch 10.6.1	lb/ODT	Formaldehyde
OSB	30701041	Conveyor Dryer: Heated Zones: Softwood	Conveyor strand dryer	#N/A	OSB, Conveyor dryer, indirect heated, heated zones, hardwood	AP-42, Ch 10.6.1	lb/ODT	Formaldehyde
OSB	30701042	Conveyor Dryer: Heated Zones: Mixed Hardwood/Softwood	Conveyor strand dryer	#N/A	OSB, conveyer, indirect heated, hardwood (heated zones)	AP-42, Ch 10.6.1	lb/ODT	Formaldehyde
OSB	30701043	Conveyor Dryer: Unheated Zones: All Species	Conveyor strand dryer	#N/A		No EF for SCC		
OSB	30701053		Reconstituted wood product press	OSB, press, PF resin	OSB, hot press, PF resin (liquid)	AP-42, Ch 10.6.1	lb/MSF 3/8	Acetaldehyde Formaldehyde- Methanol, Phenol
OSB	30701055	Reconstituted Wood Products Press: Methylene Diphenyl Diisocyanate (MDI) Resin	Reconstituted wood product press	OSB, press, MDI resin	OSB, press, MDI resin	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, MDI

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
OSB	30701057	Reconstituted Wood Products Press: Phenol Formaldehyde Resin (surface layers)/ Methylene Diphenyl Diisocyanate (MDI) Resin (core layers)	Reconstituted wood product press Reconstituted	OSB, press, PF/MDI resin	OSB, press, PF/MDI resin	AP-42, Ch 10.6.1	1b/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MDI
OSB	30701058	Reconstituted Wood Products Press	wood product press	#N/A	OSB, hot press, PF resin (powder)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde
OSB	30701062	Sanding Operations	Finishing sander	OSB sanderdust metering bin (holds fuel for dryer and thermal oil heater suspension burners)	OSB sanderdust metering bin (holds fuel for dryer and thermal oil heater suspension burners)	AP-42, Ch 10.6.1	lb/MSF 3/8	Methanol
OSB	30701064	Storage Bins: Trimming and Dryer Exhaust Cyclone Dust	Other	OSB raw fuel bin (holds fines from screens and saws)	OSB raw fuel bin (holds fines from screens and saws)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol
OSB	30701067	Combined Process Unit Type Dust Collection: Dry Wood Material	Other	#N/A	OSB sanderdust metering bin (holds fuel for dryer and thermal oil heater suspension burners)	AP-42, Ch 10.6.1	lb/MSF 3/8	Methanol
OSB	30701068	Combined Process Unit Type Dust Collection: Mixed Dry and Green Wood Material	Other	#N/A	OSB sanderdust metering bin (holds fuel for dryer and thermal oil heater suspension burners)	AP-42, Ch 10.6.1	lb/MSF 3/8	Methanol
OSB	30701070	Blender: Phenol Formaldehyde Resin	Blender	#N/A	OSB blender (PF & MDI resin)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol
OSB	30701071	Blender: Methylene Diphenyl Diisocyanate (MDI) Resin	Blender	#N/A	OSB blender (PF & MDI resin)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol
OSB	30701072		Former	#N/A		No EF for SCC		
OSB	30701073		Former	#N/A		No EF for SCC		
OSB	30701074	Former Operations: Phenol Formaldehyde Resin/Methylene Diphenyl Diisocyanate (MDI) Resin	Former	#N/A		No EF for SCC		

PCWP SCCs by Products and Process Unit Type				Provisional calculation information					
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²	
OSB	30701084	Hammermill/Chipper: Dry Wood Material	Panel trim	#N/A	SPW dry trim chipper (chips dry trim from SPW panel saws; process rate = finished board production)	AP-42, Ch 10.5	lb/MSF 3/8	Methanol	
OSB	30701085	Hammermill/Chipper: Mixed Green and Dry Wood Material	Panel trim chipper	#N/A	SPW dry trim chipper (chips dry trim from SPW panel saws; process rate = finished board production)	AP-42, Ch 10.5	lb/MSF 3/8	Methanol	
OSB	30701086	Miscellaneous Coating Operations	Miscellaneous coating operation	#N/A		No EF for SCC			
OSB	30701087	Resin Storage Tanks	Resin storage tank	#N/A		No EF for SCC			
OSB	30701090	Sawing Operations: Pre-Press Mat Trimming: Phenol Formaldehyde Resin	Finishing saw	#N/A	OSB raw fuel bin (holds fines from screens and saws)	AP-42, Ch 10.6.1	1b/MSF 3/8	Formaldehyde, Methanol	
OSB	30701091	Sawing Operations: Pre-Press Mat Trimming: Methylene Diphenyl Diisocyanate (MDI) Resin	Finishing saw	#N/A	OSB raw fuel bin (holds fines from screens and saws)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol	
OSB	30701092	Sawing Operations: Pre-Press Mat Trimming: Phenol Formaldehyde Resin/Methylene Diphenyl Diisocyanate (MDI) Resin	Finishing saw	#N/A	OSB raw fuel bin (holds fines from screens and saws)		lb/MSF 3/8	Formaldehyde, Methanol	
OSB	30701093	Sawing Operations: Post- Press Panel Trimming: Phenol Formaldehyde Resin	Finishing saw	#N/A	OSB raw fuel bin (holds fines from screens and saws)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol	
OSB	30701094	Sawing Operations: Post- Press Panel Trimming: Methylene Diphenyl Diisocyanate (MDI) Resin	Finishing saw	#N/A	OSB raw fuel bin (holds fines from screens and saws)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol	
OSB		Sawing Operations: Post- Press Panel Trimming: Phenol Formaldehyde Resin/Methylene Diphenyl Diisocyanate (MDI) Resin	Finishing saw	#N/A	OSB raw fuel bin (holds fines from screens and saws)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol	
OSB	30701099	Other Not Classified	Other	#N/A		No EF for SCC			

PCWP SCCs by Products and Process Unit Type				Provisional calculation information					
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²	
НВ	30701401	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Non- Phenol Formaldehyde Resin: Hardwood	Primary tube dryer	#N/A	HB, tube, direct wood-fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, HAP metals	
НВ	30701402	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Non- Phenol Formaldehyde Resin: Softwood	Primary tube dryer	#N/A	HB, tube, direct wood-fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, HAP metals	
НВ	30701403	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Non- Phenol Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube	#N/A	HB, tube, direct wood-fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, HAP metals	
НВ	30701404	Pressurized Refiner/Primary Tube Dryer: Natural Gas- fired: Blowline Blend: Non- Phenol Formaldehyde Resin: Hardwood	Primary tube dryer	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes	
НВ	30701405	Pressurized Refiner/Primary Tube Dryer: Natural Gas- fired: Blowline Blend: Non- Phenol Formaldehyde Resin: Softwood	Primary tube dryer	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes	
нв	30701406		Primary tube dryer	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes	
НВ	30701407	Pressurized Refiner/Primary Tube Dryer: Indirect-fired: Blowline Blend: Phenol Formaldehyde Resin: Softwood	Primary tube dryer	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes	

PCWP SCCs by Products and Process Unit Type					Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
НВ	30701408	Pressurized Refiner/Primary Tube Dryer: Indirect-fired: Blowline Blend: Phenol Formaldehyde Resin: Hardwood	Primary tube	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes
НВ	30701409	Pressurized Refiner/Primary Tube Dryer: Indirect-fired: Blowline Blend: Phenol Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube dryer	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes
НВ	30701410	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Phenol Formaldehyde Resin: Hardwood	Primary tube dryer	HB, tube, direct wood-fired, blowline blend, PF, hardwood	HB, tube, direct wood-fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, HAP metals
НВ	30701411	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Phenol Formaldehyde Resin: Softwood	Primary tube dryer	#N/A	HB, tube, direct wood-fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, HAP metals
НВ	30701412	Pressurized Refiner/Primary Tube Dryer: Direct Wood- fired: Blowline Blend: Phenol Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube	#N/A	HB, tube, direct wood-fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Formaldehyde, Methanol, Phenol, HAP metals
НВ	30701413	Pressurized Refiner/Primary Tube Dryer: Natural Gas- fired: Blowline Blend: Phenol Formaldehyde Resin: Softwood	Primary tube dryer	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Chloromethane (methyl chloride), Ethylbenzene, Styrene, Toluene, Xylenes

PCWP SCCs by Products and Process Unit Type					Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
НВ	30701414	Pressurized Refiner/Primary Tube Dryer: Natural Gas- fired: Blowline Blend: Phenol Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube dryer	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Chloromethane (methyl chloride), Ethylbenzene, Styrene, Toluene, Xylenes
нв	30701415	Pressurized Refiner/Primary Tube Dryer: Natural Gas- fired: Blowline Blend: Phenol Formaldehyde Resin: Hardwood	Primary tube	HB, tube, direct natural gas-fired, blowline blend, PF, hardwood	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Chloromethane (methyl chloride), Ethylbenzene, Styrene, Toluene, Xylenes
НВ	30701417	Pressurized Refiner/Primary Tube Dryer: Indirect-fired: Blowline Blend: Non-Phenol Formaldehyde Resin: Hardwood	Primary tube	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Chloromethane (methyl chloride), Ethylbenzene, Styrene, Toluene, Xylenes
НВ	30701417	Pressurized Refiner/Primary Tube Dryer: Indirect-fired: Blowline Blend: Non-Phenol Formaldehyde Resin:	Primary tube	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Chloromethane (methyl chloride), Ethylbenzene, Styrene, Toluene, Xylenes
НВ		Pressurized Refiner/Primary Tube Dryer: Indirect-fired: Blowline Blend: Non-Phenol Formaldehyde Resin: Mixed Softwood/Hardwood	Primary tube dryer	#N/A	HB, tube, direct natural gas- fired, blowline blend, PF, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Chloromethane (methyl chloride), Ethylbenzene, Styrene, Toluene, Xylenes
НВ	30701421	HB Oven Secondary Tube Dryer: All	HB oven Secondary tube	#N/A	HB, tempering oven, direct natural gas-fired, hardwood HB, second stage tube dryer,	AP-42, Ch 10.6.4 AP-42, Ch	1b/MSF 1/8	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK Formaldehyde, Methanol,
HB	30701423	Direct-fired Units	dryer	#N/A	indirect heated, hardwood	10.6.4	lb/ODT	Phenol

PCWP SCCs by Products and Process Unit Type					Provisional calculation information			
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
НВ	30701424	Secondary Tube Dryer: All Indirect-fired Units	Secondary tube dryer	#N/A	HB, second stage tube dryer, indirect heated, hardwood	AP-42, Ch 10.6.4	lb/ODT	Formaldehyde, Methanol, Phenol
НВ	30701426	Fiber Dryers: Other	Other	#N/A		No EF for SCC		
НВ		Press Pre-Dryer: Phenol Formaldehyde Resin	HB press predryer	#N/A	FB, board dryer, indirect heated, softwood, starch binder (heated zones)	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
НВ	30701428	Press Pre-Dryer: Non-Phenol Formaldehyde Resin	HB press	#N/A	HB, board dryer, direct natural gas-fired, softwood, linseed oil binder (heated zones)	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene
НВ	30701431	Humidifier	HB humidifier	#N/A	HB, humidification kiln, indirect heated	AP-42, Ch 10.6.4	lb/MSF 1/8	Acetaldehyde, Acrolein, Formaldehyde, Phenol, Propionaldehyde, Benzene, Chloroethane (Ethyl chloride), Chloromethane (methyl chloride), Ethylbenzene, Toluene, Xylenes, Cresols
НВ	30701441	Dry HB Press: Phenol Formaldehyde Resin	Reconstituted wood product press	#N/A	HB, press, PF resin	AP-42, Ch 10.6.4	lb/MSF 1/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, Toluene, Xylenes
НВ	30701443	Dry HB Press: Non-Phenol Formaldehyde Resin	Reconstituted wood product press	#N/A	HB, press, linseed oil binder	AP-42, Ch 10.6.4	lb/MSF 1/8	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
НВ	30701444	Wet HB Press: Phenol Formaldehyde Resin	Reconstituted wood product press	#N/A	HB, press, PF resin	AP-42, Ch 10.6.4	lb/MSF 1/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, Toluene, Xylenes
НВ	30701445	Wet HB Press: Non-Phenol Formaldehyde Resin	Reconstituted wood product press	#N/A	HB, press, PF resin	AP-42, Ch 10.6.4	lb/MSF 1/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, Toluene, Xylenes
НВ	30701450	Blender: Phenol Formaldehyde Resin	Blender	#N/A	OSB, blender (PF & MDI)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol
НВ	30701451	Blender: Non-Phenol Formaldehyde Resin	Blender	#N/A		No EF for SCC		
НВ		Fiber Washer	Fiber washer	#N/A	FB, washer, softwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Formaldehyde, Methanol
НВ		Digester: Softwood	Stand alone digester	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene

PCWP SCCs by Products and Process Unit Type				Provisional calculation information					
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²	
НВ		Digester: Hardwood	Stand alone digester	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene	
НВ	30701457	Digester: Mixed Softwood/Hardwood	Stand alone digester	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene	
НВ	30701460	Atmospheric Refiner: Softwood	Atmospheric refiner	#N/A	FB, atmospheric refiner and dump chest, softwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Propionaldehyde, Cumene, Toluene	
НВ	30701461	Atmospheric Refiner: Hardwood	Atmospheric refiner	#N/A	FB, atmospheric refiner and dump chest, softwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Propionaldehyde, Cumene, Toluene	
НВ	30701462	Atmospheric Refiner: Mixed Softwood/Hardwood	Atmospheric refiner	#N/A	FB, atmospheric refiner and dump chest, softwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Propionaldehyde, Cumene, Toluene	
НВ	30701463	Pressurized Refiner: Softwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene	
НВ	30701464	Pressurized Refiner: Hardwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene	
НВ	30701465	Pressurized Refiner: Mixed Softwood/Hardwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene	
НВ	30701466	Pressurized Digester/Refiner: Softwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene	
НВ	30701467	Pressurized Digester/Refiner: Hardwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene	

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
								Acetaldehyde, Acrolein,
НВ	30701468	Pressurized Digester/Refiner: Mixed Softwood/Hardwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene
	20701.00		10111101	77.77	OSB sanderdust metering bin	10.0	10, 021	inibit, styrene
НВ	30701480	Sanding Operations	Finishing sander	HB Sander	(holds fuel for dryer and thermal oil heater suspension burners)	AP-42, Ch 10.6.1	lb/MSF 3/8	Methanol
IID	30701100	Surang operations	1 misming surface	TID Suites	OSB raw fuel bin (holds fines		lb/MSF	TVPOLITATION
HB	30701481	Sawing Operations	Finishing saw	#N/A	from screens and saws)	10.6.1	3/8	Formaldehyde, Methanol
НВ	30701485		Former	#N/A	HB former, wet, PF resin	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Formaldehyde, Methanol-Phenol, Propionaldehyde, MIBK
IID	20701496	Wet HB Former: Vacuum System: Phenol	Г	HB former, wet, PF	HD C A DE C	AP-42, Ch	II /ODT	Acetaldehyde, Formaldehyde, Methanol-Phenol,
HB	30701486	Formaldehyde Resin Dry Process Former	Former	resin	HB former, wet, PF resin	10.6.4	lb/ODT	Propionaldehyde, MIBK
НВ	30701487	Operations: Dust Collection: Phenol Formaldehyde Resin	Former	#N/A		No EF for SCC		
		Dry Process Former Operations: Dust Collection: Non-Phenol Formaldehyde				No EF for		
HB	30701488	Resin	Former	#N/A		SCC		
НВ	30701489	Wet Process Former Operations: Dust (Fiber) Collection: Phenol Formaldehyde Resin	Former	#N/A		No EF for SCC		
		Wet Process Former Operations: Dust (Fiber) Collection: Non-Phenol				No EF for		
HB	30701490	Formaldehyde Resin	Former	#N/A		SCC		
НВ	30701493	Combined Process Unit Type Dust Collection: Dry Wood Material	Other	#N/A		No EF for SCC		
НВ	30701494	Combined Process Unit Type Dust Collection: Mixed Dry and Green Wood Material	Other	#N/A		No EF for SCC		
НВ	30701495	Panel Trim Chipper	Panel trim chipper	#N/A	OSB raw fuel bin (holds fines from screens and saws)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol
НВ	30701496	Miscellaneous Coating Operations	Miscellaneous coating operation	#N/A		No EF for SCC		

PCWP SC	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
НВ	30701497	Resin Storage Tanks	Resin storage tank	#N/A		No EF for SCC		
НВ	30701497	Other Not Classified	Other	#N/A		No EF for SCC		
FB	30701513	Mat Dryer: Indirect-heated: Starch binder: Softwood	Fiberboard mat dryer	#N/A	FB, board dryer, indirect heated, softwood, starch binder (heated zones)	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
FB	30701514	Mat Dryer: Indirect-heated: Starch binder: Hardwood	Fiberboard mat dryer	#N/A	FB, board dryer, indirect heated, softwood, starch binder (heated zones)	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
FB	30701515	Mat Dryer: Indirect-heated: Starch binder: Mixed Softwood/Hardwood	Fiberboard mat dryer	#N/A	FB, board dryer, indirect heated, softwood, starch binder (heated zones)	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
FB	30701516	Mat Dryer: Indirect-heated: Asphalt binder: Softwood	Fiberboard mat dryer	#N/A	FB, board dryer, indirect heated, softwood, 6-12% asphalt binder (heated zones)	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol
FB	30701517	Mat Dryer: Indirect-heated: Asphalt binder: Hardwood	Fiberboard mat dryer	#N/A	FB, board dryer, indirect heated, softwood, 6-12% asphalt binder (heated zones)	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol
FB	30701518	Mat Dryer: Indirect-heated: Asphalt binder: Mixed Softwood/Hardwood	Fiberboard mat dryer	#N/A	FB, board dryer, indirect heated, softwood, 6-12% asphalt binder (heated zones)	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol
FB	30701519	Mat Dryer: Direct-heated: Starch binder: Softwood	Fiberboard mat dryer	#N/A	Fiberboard board dryer, indirect heated, starch binder (heated zones), softwood	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde
FB	30701520	Mat Dryer: Direct-heated: Starch binder: Hardwood Mat Dryer: Direct-heated:	Fiberboard mat dryer	#N/A	Fiberboard, board dryer, indirect heated, starch binder (heated zones), softwood Fiberboard, board dryer,	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde Acetaldehyde, Acrolein,
FB	30701521	Starch binder: Mixed Softwood/Hardwood	Fiberboard mat dryer	#N/A	indirect heated, starch binder (heated zones), softwood	AP-42, Ch 10.6.4	lb/MSF 1/2	Formaldehyde, Methanol, Phenol, Propionaldehyde

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
FB	30701522	Mat Dryer: Direct-heated: Asphalt binder: Softwood	Fiberboard mat dryer	#N/A	Fiberboard, board dryer, indirect heated, 6-12% asphalt binder (heated zones), softwood	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol
FB	30701523	Mat Dryer: Direct-heated: Asphalt binder: Hardwood	Fiberboard mat dryer	#N/A	Fiberboard, board dryer, indirect heated, 6-12% asphalt binder (heated zones), softwood	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol
FB	30701524	Mat Dryer: Direct-heated: Asphalt binder: Mixed Softwood/Hardwood	Fiberboard mat	#N/A	Fiberboard, board dryer, indirect heated, 6-12% asphalt binder (heated zones), softwood	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol
FB	30701528	Atmospheric Refiner: Hardwood	Atmospheric refiner	#N/A	FB, atmospheric refiner and dump chest, softwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Propionaldehyde, Cumene, Toluene
FB	30701529	Atmospheric Refiner: Mixed Softwood/Hardwood	Atmospheric refiner	#N/A	FB, atmospheric refiner and dump chest, softwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Propionaldehyde, Cumene, Toluene
FB	30701530	Atmospheric Refiner: Softwood	Atmospheric refiner	FB, atmospheric refiner and dump chest, softwood	FB, atmospheric refiner and dump chest, softwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Propionaldehyde, Cumene, Toluene
FB	30701531	Pressurized Refiner: Softwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene
FB	30701532	Pressurized Refiner: Hardwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene
FB	30701533	Pressurized Refiner: Mixed Softwood/Hardwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene
FB	30701534	Digester: Softwood	Stand alone digester	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, MIBK, Styrene

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
								Acetaldehyde, Acrolein,
								Formaldehyde, Methanol,
ED	20701525	Di	Stand alone	#NT/A	HB pressurized digester/refiner, hardwood	AP-42, Ch	lb/ODT	Phenol, Propionaldehyde,
FB	30/01333	Digester: Hardwood	digester	#N/A	digester/refiner, nardwood	10.6.4	Ib/OD1	MIBK, Styrene Acetaldehyde, Acrolein,
								Formaldehyde, Methanol,
		Digester: Mixed	Stand alone		HB pressurized	AP-42, Ch		Phenol, Propionaldehyde,
FB	30701536	Softwood/Hardwood	digester	#N/A	digester/refiner, hardwood	10.6.4	lb/ODT	MIBK, Styrene
								Acetaldehyde, Acrolein,
								Formaldehyde, Methanol,
FB	30701537	Pressurized Digester/Refiner: Softwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Phenol, Propionaldehyde, MIBK, Styrene
LD	30/0133/	Softwood	renner	#1 N /A	digester/refiner, nardwood	10.0.4	10/OD1	Acetaldehyde, Acrolein,
								Formaldehyde, Methanol,
		Pressurized Digester/Refiner:	Pressurized		HB pressurized	AP-42, Ch		Phenol, Propionaldehyde,
FB	30701538	Hardwood	refiner	#N/A	digester/refiner, hardwood	10.6.4	lb/ODT	MIBK, Styrene
								Acetaldehyde, Acrolein,
		D : 1D: //D C	D ' 1		IID : 1	AD 42 CI		Formaldehyde, Methanol,
FB	30701539	Pressurized Digester/Refiner: Mixed Softwood/Hardwood	Pressurized refiner	#N/A	HB pressurized digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	Phenol, Propionaldehyde, MIBK, Styrene
TD	30701337	Whited Softwood/Hardwood	Termer	FB, washer,	digester/refiner, nardwood	AP-42, Ch	10/OD1	Acetaldehyde Formaldehyde-
FB	30701540	Fiber Washer: Softwood	Fiber washer	softwood	FB, washer, softwood	10.6.4	lb/ODT	Methanol
						AP-42, Ch		Acetaldehyde Formaldehyde-
FB	30701541		Fiber washer	#N/A	FB, washer, softwood	10.6.4	lb/ODT	Methanol
		Fiber Washer: Mixed				AP-42, Ch		Acetaldehyde Formaldehyde-
FB	30701542		Fiber washer	#N/A	FB, washer, softwood	10.6.4	lb/ODT	Methanol
FB	30701551	Wet Fiberboard Former: Vacuum: All Binder Systems	Former	#N/A	FB, former, wet, 6-12% asphalt	AP-42, Ch 10.6.4	lb/MSF 1/2	Acetaldehyde, Formaldehyde, Methanol, Toluene
ГЪ	30/01331	vacuum. An Binder Systems	Panel trim	#1 V /A	OSB raw fuel bin (holds fines		lb/MSF	Wethanoi, Tottene
FB	30701561	Panel Trim Chipper	chipper	#N/A	from screens and saws)	10.6.1	3/8	Formaldehyde, Methanol
			11		OSB raw fuel bin (holds fines		lb/MSF	
FB	30701562	Sawing Operations	Finishing saw	#N/A	from screens and saws)	10.6.1	3/8	Formaldehyde, Methanol
		Combined Process Unit Type						
ED	20701567	Dust Collection: Dry Wood	Other	#NT/A		No EF for		
FB	30701567	Material Combined Process Unit Type	Other	#N/A		SCC		
		Dust Collection: Mixed Dry				No EF for		
FB	30701568		Other	#N/A		SCC		
		Miscellaneous Coating	Miscellaneous			No EF for		
FB	30701591	Operations	coating operation	#N/A		SCC		
ED	20501505	D : G	Resin storage	(0.77)		No EF for		
FB	30701592	Resin Storage Tanks	tank	#N/A		SCC		

PCWP SO	CCs by Produ	ucts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
ED	20701500	Oil N. Cl. Ct. 1	Od	// \ \ / \ \		No EF for		
FB	30701599	Other Not Classified	Other	#N/A LVL, veneer,		SCC		
LVL	30701601	Hardwood Veneer Dryer: Indirect-heated: Heated Zones	Hardwood veneer dryer	indirect heated, hardwood (heated zones)	HPW, veneer, indirect heated, hardwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK
LVL	30701602	Hardwood Veneer Dryer: Indirect-heated: Cooling Section	Hardwood veneer dryer	LVL, veneer, indirect heated, hardwood (cooling section)	HPW, veneer, indirect heated, hardwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, MIBK
LVL	30701603		Softwood veneer dryer	#N/A	SPW, veneer, indirect heated, softwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK, Benzene, Acetaldehyde, Acrolein, Formaldehyde- Methanol-Phenol- Propionaldehyde, Benzene, MIBK, Toluene, Xylenes
LVL	30701604	Softwood Veneer Dryer: Indirect-heated: Cooling Section	Softwood veneer dryer	#N/A	SPW, veneer, indirect heated, softwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK, Xylenes
LVL	30701605 30701606	Hardwood Veneer Dryer: Direct Wood-fired: Cooling	Hardwood veneer dryer Hardwood veneer dryer	#N/A #N/A	HPW, veneer, direct wood- fired, hardwood (heated zones) HPW, veneer, direct wood- fired, hardwood (cooling section)	AP-42, Ch 10.5 AP-42, Ch 10.5 (All EF BDL)	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, HAP metals
LVL	30701607	Softwood Veneer Dryer:	Softwood veneer dryer	#N/A	SPW, veneer, direct wood-fired, softwood (heated zones) SPW, veneer, direct natural	AP-42, Ch 10.5	lb/MSF 3/8	Formaldehyde
LVL	30701608	Direct Wood-fired: Cooling Section Hardwood Veneer Dryer:	Softwood veneer dryer	#N/A	gas-fired, softwood (cooling section) HPW, veneer, direct wood-	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol
LVL	30701609	Direct Natural Gas-fired: Heated Zones	Hardwood veneer dryer	#N/A	fired, hardwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, HAP metals

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
LVL	30701610	Hardwood Veneer Dryer: Direct Natural Gas-fired: Cooling Section	Hardwood veneer dryer	#N/A	HPW, veneer, direct wood- fired, hardwood (cooling section)	AP-42, Ch 10.5 (All EF BDL)		
LVL	30701611	Softwood Veneer Dryer: Direct Natural Gas-fired: Heated Zones	Softwood veneer dryer	#N/A	SPW, veneer, direct natural gas-fired, softwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Acrolein Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes, HAP Metals
LVL	30701612		Engineered wood products press	LVL, press, PF resin	LVL, press, PF resin	AP-42, Ch 10.9	lb/MCF	Acetaldehyde, Formaldehyde, Methanol, Propionaldehyde
LVL	30701613	Softwood Veneer Dryer: Direct Natural Gas-fired: Cooling Section	Softwood veneer dryer	#N/A	SPW, veneer, direct natural gas-fired, softwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol
LVL	30701614	Press: Non-Phenol Formaldehyde Resin	Engineered wood products press	#N/A	LSL Hot press, MDI resin	AP-42, Ch 10.9	lb/MCF	Formaldehyde, MDI
LVL	30701615	Veneer Redryer: Radio Frequency-heated: Softwood	Veneer redryer	#N/A	SPW, veneer, RF heated, softwood	AP-42, Ch 10.5	1b/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol
LVL	30701616	Veneer Redryer: Radio Frequency-heated: Hardwood	Veneer redryer	#N/A	SPW, veneer, RF heated, softwood	AP-42, Ch 10.5	1b/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol
LVL	30701617	Veneer Redryer: Non-RF Heat: Softwood	Veneer redryer	#N/A		No EF for SCC		
LVL	30701618	Veneer Redryer: Non-RF Heat: Hardwood	Veneer redryer	#N/A		No EF for SCC		
LVL	30701619	Sanding Operations	Finishing sander	#N/A	OSB sanderdust metering bin (holds fuel for dryer and thermal oil heater suspension burners)	AP-42, Ch 10.6.1	lb/MSF 3/8	Methanol
LVL	30701623		Panel trim chipper	#N/A		No EF for SCC		
LVL	30701624	Hammermill/Chipper: Mixed Green and Dry Wood Material	Panel trim chipper	#N/A		No EF for SCC		
LVL	30701627	Sawing Operations: Dry Veneer and Laminated Veneer Lumber (LVL) Trimming	Finishing saw	#N/A		No EF for SCC		

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
LVL	30701628	Log Steaming Vat	Log vat	#N/A	SPW log steaming vat (process rate = volume of wood removed from vat per hour)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Methanol
LVL	30701629	Resin Storage Tanks	Resin storage tank	#N/A		No EF for SCC		
LVL	30701633		Other	#N/A		No EF for SCC		
LVL	30701634	Combined Process Unit Type Dust Collection: Mixed Dry and Green Wood Material	Other	#N/A		No EF for SCC		
LVL	30701635	Miscellaneous Coating Operations	Miscellaneous coating operation	#N/A		No EF for SCC		
LVL	30701639	Other Not Classified	Other	#N/A		No EF for SCC		
I-joist	30701670	Curing Chamber	Engineered wood products press Resin storage	#N/A	I-Joist curing chamber	AP-42, Ch 10.9 No EF for	lb/MLF	Formaldehyde, Methanol
I-joist	30701671	Resin Storage Tanks	tank	#N/A		SCC AP-42, Ch		
I-joist	30701672	Sawing Operations	Finishing saw	#N/A	LVL I-Beam Saw	10.9 No EF for	lb/MLF	Methanol
I-joist	30701679	Other Not Classified Press/Curing Chamber:	Other	#N/A		SCC		
glulam	30701680	Phenol-Resorcinol- Formaldehyde (PRF) resin	Engineered wood products press	#N/A		No EF for SCC		
glulam	30701681	Press/Curing Chamber: Non- Phenol-Resorcinol- Formaldehyde (PRF) Resin	Engineered wood products press	#N/A		No EF for SCC		
glulam	30701682	Resin Storage Tanks	Resin storage tank	#N/A		No EF for SCC		
glulam	30701683	Chippers	Other	#N/A		No EF for SCC		
glulam	30701684	Sanding Operations	Finishing sander	#N/A		No EF for SCC		
glulam	30701685	Sawing Operations	Finishing saw	#N/A		No EF for SCC		

PCWP SC	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
glulam	30701689	Other Not Classified	Other	#N/A		No EF for SCC		
LSL	30701701	Rotary Strand Dryer: Direct Wood-fired: Hardwood	Rotary strand dryer	#N/A	LSL, rotary, direct wood-fired, hardwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde, HAP metals
LSL	30701702	Rotary Strand Dryer: Direct Wood-fired: Softwood	Rotary strand dryer	#N/A	OSB, rotary, direct wood-fired, softwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde, HAP metals
LSL	30701703	Rotary Strand Dryer: Direct Wood-fired: Mixed Softwood/Hardwood	Rotary strand dryer	#N/A	OSB, rotary, direct wood-fired, softwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde, HAP metals
LSL	30701704	Rotary Strand Dryer: Direct Natural Gas-fired: Softwood	Rotary strand dryer	#N/A	OSB, rotary, direct wood- fired, softwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde
LSL	30701705	Rotary Strand Dryer: Direct Natural Gas-fired: Hardwood	Rotary strand dryer	#N/A	OSB, rotary, direct natural gas-fired, hardwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde
LSL	30701706	Rotary Strand Dryer: Direct Natural Gas-fired: Mixed Softwood/Hardwood	Rotary strand dryer	#N/A	OSB, rotary, direct natural gas-fired, hardwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde
LSL	30701707	Rotary Strand Dryer: Indirect-heated: Softwood	Rotary strand dryer	#N/A	OSB, rotary, direct wood-fired, softwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde

PCWP SO	CCs by Produ	ucts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
LSL	30701708		Rotary strand dryer	#N/A	OSB, rotary, indirect-heated, hardwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde
LSL	30701709	Rotary Strand Dryer: Indirect-heated: Mixed Softwood/Hardwood	Rotary strand dryer	#N/A	OSB, rotary, indirect-heated, hardwood	AP-42, Ch 10.9	lb/ODT	Acrolein, Formaldehyde
LSL	30701710	Conveyor Dryer: Heated Zones: Hardwood	Conveyor strand dryer	#N/A	OSB, conveyer, indirect heated, hardwood (heated zones)	AP-42, Ch 10.9 (All EF BDL)		
LSL	30701711	Conveyor Dryer: Heated Zones: Softwood	Conveyor strand dryer	#N/A	LSL conveyor dryer, indirect- heated, hardwood	AP-42, Ch 10.9 (All EF BDL)		
LSL	30701712	Conveyor Dryer: Heated Zones: Mixed Hardwood/Softwood	Conveyor strand dryer	#N/A	LSL conveyor dryer, indirect- heated, hardwood	BDL)		
LSL	30701713	Conveyor Dryer: Unheated Zones: All Species	Conveyor strand dryer	#N/A	LSL conveyor dryer, indirect- heated, hardwood	AP-42, Ch 10.9 (All EF BDL)		
LSL	30701720		Engineered wood products press	#N/A	LSL Hot press, MDI resin	AP-42, Ch 10.9	lb/MCF	Formaldehyde, MDI
LSL	30701721	Press: Non-Methylene Diphenyl Diisocyanate (MDI) Adhesive	Engineered wood products press	#N/A	LVL, Hot press, PF resin	AP-42, Ch 10.9	lb/MCF	Acetaldehyde, Formaldehyde, Methanol, Propionaldehyde
LSL	30701722		Blender	#N/A	OSB blender (PF & MDI resin)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol
LSL	30701723		Blender	#N/A	OSB blender (PF & MDI resin)	AP-42, Ch 10.6.1	lb/MSF 3/8	Formaldehyde, Methanol
LSL	30701724		Former	#N/A		No EF for SCC		
LSL	30701725	Former Operations: Non- Methylene Diphenyl Diisocyanate (MDI) Adhesive	Former	#N/A		No EF for SCC		
LSL		Sanding Operations	Finishing sander	#N/A	OSB sanderdust metering bin (holds fuel for dryer and thermal oil heater suspension burners)	AP-42, Ch 10.6.1	lb/MSF 3/8	Methanol

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
LSL	30701731	Sawing Operations	Finishing saw	#N/A		No EF for SCC		
LSL	30701735	Hammermill/Chipper: Dry Wood Material	Panel trim chipper	#N/A		No EF for SCC		
LSL	30701736	Hammermill/Chipper: Mixed Green and Dry Wood Material	Panel trim chipper	#N/A		No EF for SCC		
LSL	30701737	Resin Storage Tanks	Resin storage tank	#N/A		No EF for SCC		
LSL	30701739	Other Not Classified	Other	#N/A		No EF for SCC		
PSL	30701740		Hardwood veneer dryer	#N/A	HPW, veneer, indirect heated, hardwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK
PSL	30701741	Hardwood Veneer Dryer: Indirect-heated: Cooling Section	Hardwood veneer dryer	#N/A	HPW, Indirect heated, cooling section, hardwood	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, MIBK
PSL	30701742	Softwood Veneer Dryer: Indirect-heated: Heated Zones	Softwood veneer	#N/A	SPW, Indirect heated, heated zones, softwood	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Acrolein Formaldehyde, Methanol, Phenol, Propionaldehyde MIBK, Benzene, Toluene, Xylenes
PSL	30701743	Softwood Veneer Dryer: Indirect-heated: Cooling Section	Softwood veneer dryer	#N/A	SPW, veneer, indirect heated, softwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK, Xylenes
PSL	30701744		Hardwood veneer dryer	#N/A	HPW, veneer, direct wood-fired, hardwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, HAP metals
PSL	30701745	Hardwood Veneer Dryer: Direct Wood-fired: Cooling Section	Hardwood veneer dryer	#N/A	HPW, veneer, direct wood- fired, hardwood (cooling section)	AP-42, Ch 10.5 (All EF BDL)		

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	mation		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source	EF units	Pollutants with Provisional Calculations Available ²
PSL	30701746		Softwood veneer dryer	#N/A	SPW, veneer, direct wood- fired, softwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Acrolein Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes, HAP Metals
PSL	30701747	Softwood Veneer Dryer: Direct Wood-fired: Cooling Section	Softwood veneer dryer	#N/A	SPW, veneer, direct natural gas-fired, softwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol
PSL	30701748	Hardwood Veneer Dryer: Direct Natural Gas-fired: Heated Zones Hardwood Veneer Dryer:	Hardwood veneer dryer	#N/A	HPW, veneer, direct wood- fired, hardwood (heated zones) HPW, veneer, direct wood-	AP-42, Ch 10.5 AP-42, Ch	1b/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, HAP metals
PSL	30701749	Direct Natural Gas-fired: Cooling Section	Hardwood veneer dryer	#N/A	fired, hardwood (cooling section)	10.5 (All EF BDL)		
PSL	30701750	Softwood Veneer Dryer: Direct Natural Gas-fired: Heated Zones	Softwood veneer dryer	#N/A	SPW, veneer, direct natural gas-fired, softwood (heated zones)	AP-42, Ch 10.5	1b/MSF 3/8	Acetaldehyde, Acrolein Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, MIBK, Styrene, Toluene, Xylenes, HAP Metals
PSL	30701751	Softwood Veneer Dryer: Direct Natural Gas-fired: Cooling Section	Softwood veneer dryer	#N/A	SPW, veneer, direct natural gas-fired, softwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol, Phenol
PSL	30701752	Veneer Redryer: Radio Frequency-heated: Hardwood	Veneer redryer	#N/A	SPW, veneer, RF heated, softwood	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol
PSL	30701753	Veneer Redryer: Radio Frequency-heated: Softwood	Veneer redryer	#N/A	SPW, veneer, RF heated, softwood	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Formaldehyde, Methanol
PSL	30701754	Veneer Redryer: Other: Hardwood	Veneer redryer	#N/A		No EF for SCC		
PSL	30701755	Veneer Redryer: Other: Softwood	Veneer redryer	#N/A		No EF for SCC		
PSL	30701760	Press: Phenol Formaldehyde Resin	Engineered wood products press	#N/A	LVL, press, PF resin	AP-42, Ch 10.9	lb/MCF	Acetaldehyde, Formaldehyde, Methanol, Propionaldehyde
PSL	30701761	Press: Non-Phenol Formaldehyde Resin	Engineered wood products press	#N/A	LSL Hot press, MDI resin	AP-42, Ch 10.9	lb/ODT	Formaldehyde, MDI

PCWP SO	CCs by Produ	icts and Process Unit Type			Provisional calculation infor	42 EF to use in nore ve data In chipper (chips in SPW panel strate = finished strion) In chipper (chips in SPW panel strion) In chipper		
PCWP ¹	SCC	SCC Level Four	ICR Process Unit Type	Emission Factor Grouping (AP-42) exact SCC match	Related AP-42 EF to use in absence of more representative data	EF source		
		Hammermill/Chipper: Dry	Panel trim		SPW dry trim chipper (chips dry trim from SPW panel saws; process rate = finished	AP-42, Ch	lb/MSF	
PSL	30701765	Wood Material	chipper	#N/A	board production)	10.5	3/8	Methanol
PSL	30701766	Hammermill/Chipper: Mixed Green and Dry Wood Material	Panel trim	#N/A	SPW dry trim chipper (chips dry trim from SPW panel saws; process rate = finished board production)			Methanol
PSL		Sanding Operations	Finishing sander	#N/A	OSB sanderdust metering bin (holds fuel for dryer and thermal oil heater suspension burners)			Methanol
PSL	30701769	Sawing Operations: Dry Veneer and Parallel Strand Lumber (PSL) Trimming	Finishing saw	#N/A	,	No EF for SCC		
PSL	30701772	Combined Process Unit Type Dust Collection: Dry Wood Material	Other	#N/A		No EF for SCC		
PSL	30701773	Combined Process Unit Type Dust Collection: Mixed Dry and Green Wood Material	Other	#N/A		No EF for SCC		
PSL	30701774	Log Steaming Vat	Log vat	#N/A	SPW log steaming vat (process rate = volume of wood removed from vat per hour)	AP-42, Ch 10.5	lb/MSF 3/8	Acetaldehyde, Methanol
PSL	30701776	Resin Storage Tanks	Resin storage tank	#N/A		No EF for SCC		
PSL	30701777	Miscellaneous Coating Operations	Miscellaneous coating operation	#N/A		No EF for SCC		
PSL	30701779	Other Not Classified	Other	#N/A		No EF for SCC		

^{1.} Abbreviations: PB=Particleboard; MDF=Medium Density Fiberboard; OSB=Oriented Strand Board; HB=Hardboard; FB=Fiberboard; LVL=Laminate Veneer Lumber; LSL=Laminated Strand Lumber; PSL=Parallel Strand Lumber

^{2.} Pollutants with publicly-available emission factors for the SCC are listed. The organic HAP emissions factors are from AP-42, while the HAP metal emission factors were derived using fuel analysis data for wood-firing. In some cases, no emission factor is available even though the pollutant may reasonably be expected to be emitted. Facilities with more-representative emissions data for their operations should use that data as opposed to the provisional calculations.

HAP Metals: Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Lead, Manganese, Mercury, Nickel, Selenium, Chromium III, Chromium VI, Elemental Gaseous Mercury, Gaseous Divalent Mercury, and Particulate Divalent Mercury.

MIBK is also known as 4-Methyl-2-Pentanone.

Appendix C. List of HAP Compounds Included in the PCWP ICR HAP Menu

Pollutants	Type
Acetaldehyde	organic
Acrolein	organic
Formaldehyde	organic
Methanol	organic
Phenol	organic
Propionaldehyde	organic
1,1,1-Trichloroethane (methyl chloroform)	organic
Acetophenone	organic
Benzene	organic
Biphenyl	organic
Bis-(2-ethylhexyl phthalate)	organic
Bromomethane (methyl bromide)	organic
Carbon disulfide	organic
Carbon tetrachloride	organic
Chloroethane (Ethyl chloride)	organic
Chloroform	organic
Chloromethane (methyl chloride)	organic
Cresols	organic
Cumene	organic
Di-N-butyl phthalate	organic
Ethylbenzene	organic
Hydroquinone	organic
MDI	organic
Methylene chloride	organic
MIBK (4-Methyl-2-Pentanone)	organic
n-Hexane	organic
Styrene	organic
Toluene	organic
Xylenes	organic
Antimony	metal
Arsenic	metal
Beryllium	metal
Cadmium	metal
Chromium	metal
Cobalt	metal
Lead	metal
Manganese	metal
Mercury	metal

Nickel	metal
Selenium	metal
Chromium III*	metal
Chromium VI*	metal
Elemental Gaseous Mercury*	metal
Gaseous Divalent Mercury*	metal
Particulate Divalent Mercury*	metal

^{*}Default speciations of chromium and mercury are included in the provisional calculations.

Appendix D. Provisional Calculation Scalars

Appendix D contains conversion factors used to ratio the supplied throughput unit of measure (UOM) with the provisional calculation emission factor selection based on the SCC code.

Combination of Throughput and EF UOM	Scalar	Scalar_UOM
MBF/yr lb/MBF	1	Unity
MCF/yr lb/MCF	1	Unity
MLF/yr lb/MLF	1	Unity
MSF/yr lb/MSF	1	Unity
MSF/yr 1/2" lb/MSF 1/2"	1	Unity
MSF/yr 1/8" lb/MSF 1/8"	1	Unity
MSF/yr 3/4" lb/MSF 3/4"	1	Unity
MSF/yr 3/8" lb/MSF 3/8"	1	Unity
MSF/yr lb/MSF reclaim	1	Unity
ODT/yr lb/ODT	1	Unity
MSF/yr 1/8" lb/MSF	1	Unity*
MSF/yr 3/8" lb/MSF	1	Unity*
MSF/yr 1/2" lb/MSF	1	Unity*
MSF/yr 3/4" lb/MSF	1	Unity*
MSF/yr 1/8" lb/MSF reclaim	1	Unity*
MSF/yr 3/8" lb/MSF reclaim	1	Unity*
MSF/yr 1/2" lb/MSF reclaim	1	Unity*
MSF/yr 3/4" lb/MSF reclaim	1	Unity*
MSF/yr 1/2" lb/MSF 1/8"	0.25	(MSF 1/8")/(MSF 1/2")
MSF/yr 1/2" lb/MSF 3/4"	1.5	(MSF 3/4")/(MSF 1/2")
MSF/yr 1/2" lb/MSF 3/8"	0.75	(MSF 3/8")/(MSF 1/2")
MSF/yr 1/8" lb/MSF 1/2"	4	(MSF 1/2")/(MSF 1/8")
MSF/yr 1/8" lb/MSF 3/4"	6	(MSF 3/4")/(MSF 1/8")
MSF/yr 1/8" lb/MSF 3/8"	3	(MSF 3/8")/(MSF 1/8")
MSF/yr 3/4" lb/MSF 1/2"	0.667	(MSF 1/2")/(MSF 3/4")
MSF/yr 3/4" lb/MSF 1/8"	0.167	(MSF 1/8")/(MSF 3/4")
MSF/yr 3/4" lb/MSF 3/8"	0.5	(MSF 3/8")/(MSF 3/4")
MSF/yr 3/8" lb/MSF 1/2"	1.33	(MSF 1/2")/(MSF 3/8")
MSF/yr 3/8" lb/MSF 1/8"	0.333	(MSF 1/8")/(MSF 3/8")
MSF/yr 3/8" lb/MSF 3/4"	2	(MSF 3/4")/(MSF 3/8")
MCF/yrlb MSF 1/8"	95.97	(MSF 1/8")/(MCF)
MCF/yrlb MSF 3/8"	32	(MSF 3/8")/(MCF)
MCF/yrlb MSF 1/2"	24	(MSF 1/2")/(MCF)
MCF/yrlb MSF 3/4"	16	(MSF 3/4")/(MCF)

Combination of Throughput and EF UOM	Scalar	Scalar_UOM
MSF/yr 1/8" lb/MCF	0.0104	(MCF)/(MSF 1/8")
MSF/yr 3/8" lb/MCF	0.0313	(MCF)/(MSF 3/8")
MSF/yr 1/2" lb/MCF	0.0417	(MCF)/(MSF 1/2")
MSF/yr 3/4" lb/MCF	0.0625	(MCF)/(MSF 3/4")
MSF/yr 1/8" lb/ODT	0.213	(ODT)/(MSF 1/8")**
MSF/yr 3/8" lb/ODT	0.639	(ODT)/(MSF 3/8")**
MSF/yr 1/2" lb/ODT	0.852	(ODT)/(MSF 1/2")**
MSF/yr 3/4" lb/ODT	1.8	(ODT)/(MSF 3/4")**
MCF/yr lb/ODT	20.4	(ODT)/(MCF)**
MBF/yr lb/ODT	1.695	(ODT)/(MBF)**

^{*} Product sawing, sanding, and handling throughput with width dimensions used with dimensionless emission factor.

^{**} Denotes engineering estimate necessary for unit conversion between volume and mass. Assumes an average wood product density of 43.3 lb/cu.-ft. at 6% moisture content (for fiberboard, hardboard, and particleboard).

Appendix E. Numeric Emission Factors Included in Provisional Calculations

Appendix E. Numerical Emission Factors Included in Provisional Calculations

чррепаіх	E. Numericai i	Emission Factors Included in	Provisional Calculatio	ns I		1				I	l	1
				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
CWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Dry Rotary Dryer: Indirect-	- 77-0	PB, rotary, indirect heated	2. 554.55		7.000.00.00	7.0.0.0	. o.maidenyde	cuiaiioi		,
		heated: <600F Inlet air,		with auxiliary natural gas,	AP-42, Ch							
	30700635	<30%MC: Softwood	Dry rotary dryer	softwood	10.6.2	lb/ODT			0.047	0.027		
	-	Dry Rotary Dryer: Indirect-	. , , ,	PB, rotary, indirect heated		,			0.0.7	0.027		
		heated: <600F Inlet air,		with auxiliary natural gas,	AP-42, Ch							
3	30700636	<30%MC: Hardwood	Dry rotary dryer	softwood	10.6.2	lb/ODT			0.047	0.027		
,	30700030	Dry Rotary Dryer: Indirect-	Dry rotary drycr	Softwood	10.0.2	10/001			0.047	0.027		
		heated: <600F Inlet air,		PB, rotary, indirect heated								
		<30%MC: Mixed		**	AD 42 Ch							
	20700627		D	with auxiliary natural gas,	AP-42, Ch	II- (ODT			0.047	0.027		
l	30700637	Softwood/Hardwood	Dry rotary dryer	softwood	10.6.2	lb/ODT			0.047	0.027		
				MDF former without blowline								
		Former Operations: Urea		blend, UF resin (includes	AP-42, Ch							
3	30700641	Formaldehyde Resin	Former	blender emissions)	10.6.3	lb/ODT			0.06	0.41		
				MDF former without blowline								
	1	Former Operations: Non-		blend, UF resin (includes	AP-42, Ch							
3	30700642	Urea Formaldehyde Resin	Former	blender emissions)	10.6.3	lb/ODT			0.06	0.41		
		Blender: Urea			AP-42, Ch							
3	30700648	Formaldehyde Resin	Blender	MDF paddle blender, UF resin	10.6.3	lb/ODT			0.01	0.48		
		Blender: Non-Urea			AP-42, Ch							
В	30700649	Formaldehyde Resin	Blender	MDF paddle blender, UF resin	10.6.3	lb/ODT			0.01	0.48		
		Reconstituted Wood										
		Products Press: Batch: Urea	Reconstituted wood		AP-42, Ch							
3	30700651	Formaldehyde Resin	product press	PB, press, UF resin	10.6.2	lb/MSF 3/4	0.011	0.0054	0.23	0.59	0.011	
	30700031	Reconstituted Wood	product press	. 2, p. ess, c es	10.0.2	,	0.011	0.0054	0.23	0.55	0.011	
		Products Press:	Reconstituted wood		AP-42, Ch							
	20700652			DD proce UE rosin	-	Ib /NACE 2/4	0.011	0.0054	0.23	0.50	0.011	
В	30700052	Continuous: Urea	product press	PB, press, UF resin	10.6.2	lb/MSF 3/4	0.011	0.0054	0.23	0.59	0.011	
		Reconstituted Wood										
		Products Press:										
		Continuous: Non-Urea	Reconstituted wood		AP-42, Ch							
В	30700653	Formaldehyde Resin	product press	PB, press, UF resin	10.6.2	lb/MSF 3/4	0.011	0.0054	0.23	0.59	0.011	
		Reconstituted Wood										
		Products Press: Batch: Non-	Reconstituted wood		AP-42, Ch							
3	30700654	Urea Formaldehyde Resin	product press	PB, press, UF resin	10.6.2	lb/MSF 3/4	0.011	0.0054	0.23	0.59	0.011	
		Agriculture Fiber Board	Agriculture fiber									
В	30700656	Press	board press		No EF for SCC							
					AP-42, Ch							
3	30700657	Flaker: Hardwood	Other	PB flaker/refiner/hammermill	10.6.2	lb/ODT				0.0073	0.0045	
				1	AP-42, Ch	<u> </u>						1
3	30700658	Flaker: Softwood	Other	PB flaker/refiner/hammermill	10.6.2	lb/ODT				0.0073	0.0045	
	1	Board Cooler: Non-Urea	Reconstituted wood	,	AP-42, Ch	1			<u> </u>	5.5575	0.0045	
3	30700660	Formaldehyde Resin	product board cooler	PB board cooler, UF resin	10.6.2	lb/MSF 3/4	0.0036	0.00036	0.015	0.081	0.0066	
•	30700000	Board Cooler: Urea	Reconstituted wood	. 5 Source cooler, or resiri	AP-42, Ch	.5/11/5/ 5/4	0.0030	0.00030	0.013	0.081	3.0000	
3	20700661	Formaldehyde Resin		PB board cooler, UF resin	10.6.2	lb/MSF 3/4	0.0036	0.00036	0.015	0.081	0.0066	
,	30700001	'	product board cooler	r b board cooler, or resili	AP-42, Ch	IN/IVIOF 3/4	0.0036	0.00036	0.015	0.081	0.0000	
,	20700663	Refiner: Green Wood	Atmospharia rafir	DP flaker/refiner/hammar:		Ib/ODT				0.0073	0.0045	
3	30700662	Material: Hardwood	Atmospheric refiner	PB flaker/refiner/hammermill	10.6.2	lb/ODT				0.0073	0.0045	
		Refiner: Dry Wood			AP-42, Ch							
3	30700663	Materials	Atmospheric refiner	PB flaker/refiner/hammermill	10.6.2	lb/ODT				0.0073	0.0045	
	1	Refiner: Green Wood			AP-42, Ch							
3	30700664	Material: Softwood	Atmospheric refiner	PB flaker/refiner/hammermill	10.6.2	lb/ODT				0.0073	0.0045	
	1				AP-42, Ch							
3	30700665	Sanding Operations	Finishing sander	PB sander	10.6.2	lb/MSF				0.013	0.015	<u></u>
_		Refiner: Mixed Dry and			AP-42, Ch							
В	30700666	Green Wood Material	Atmospheric refiner	PB flaker/refiner/hammermill	10.6.2	lb/ODT				0.0073	0.0045	

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	SCC	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
DD	20700667	Sanding Operations: Urea	Finishing condor	DD candor	AP-42, Ch	Ib/MCE				0.013	0.015	
PB	30700667	Formaldehyde Resin Sanding Operations: Non-	Finishing sander	PB sander	10.6.2 AP-42, Ch	lb/MSF				0.013	0.015	1
РВ	30700668	Urea Formaldehyde Resin	Finishing sander	PB sander	10.6.2	lb/MSF				0.013	0.015	
-	30700000	Dry Rotary Dryer: Direct	Tillishing surfact	i b sander	10.0.2	15/14/5/				0.013	0.013	'
		Wood-fired: <600F Inlet		Particleboard, Rotary dryer,	AP-42, Ch							
РВ	30700670	air, <30%MC: Hardwood	Dry rotary dryer	direct wood-fired, softwood	10.6.2	lb/ODT	0.013	0.0045	0.025	0.014	0.0066	0.0032
		Dry Rotary Dryer: Direct	, , ,	ĺ		-						
		Wood-fired: <600F Inlet		Particleboard, Rotary dryer,	AP-42, Ch							
PB	30700671	air, <30%MC: Softwood	Dry rotary dryer	direct wood-fired, softwood	10.6.2	lb/ODT	0.013	0.0045	0.025	0.014	0.0066	0.0032
		Dry Rotary Dryer: Direct										
		Wood-fired: <600F Inlet										
		air, <30%MC: Mixed		Particleboard, Rotary dryer,	AP-42, Ch							
PB	30700672	Softwood/Hardwood	Dry rotary dryer	direct wood-fired, softwood	10.6.2	lb/ODT	0.013	0.0045	0.025	0.014	0.0066	0.0032
		Dry Rotary Dryer: Direct										
		Natural Gas-fired: <600F		Particleboard, Rotary dryer,								
		Inlet air, <30%MC:		direct natural gas-fired,	AP-42, Ch							
PB	30700673	Hardwood	Dry rotary dryer	hardwood	10.6.2	lb/ODT			0.028			
		Dry Rotary Dryer: Direct										
		Natural Gas-fired: <600F		Particleboard, Rotary dryer,	45.42.61							
DD	20700674	Inlet air, <30%MC:	D	direct natural gas-fired,	AP-42, Ch	IL (ODT			0.0000	0.073		
PB	30/006/4	Softwood Dry Rotary Dryer: Direct	Dry rotary dryer	softwood	10.6.2	lb/ODT			0.0086	0.073		
		Natural Gas-fired: <600F		Particleboard, Rotary dryer,								
		Inlet air, <30%MC: Mixed		direct natural gas-fired,	AP-42, Ch							
РВ	30700675	Softwood/Hardwood	Dry rotary dryer	softwood	10.6.2	lb/ODT			0.0086	0.073		
-	30700073	301twood/11a1awood	Dry rotary aryer	PB, green dryer, rotary, direct	10.0.2	15, 551			0.0000	0.073		
				wood-fired, mixed wood								
		Green Rotary Dryer: Direct		species (40-60% softwood, 40-	AP-42, Ch							
РВ	30700676	Wood-fired: Hardwood	Green rotary dryer	60% hardwood)	10.6.2	lb/ODT	0.059	0.015	0.096	0.059	0.0079	0.0042
		Green Rotary Dryer: Direct		PB, green dryer, rotary, direct	AP-42, Ch							
РВ	30700677	Wood-fired: Softwood	Green rotary dryer	wood-fired, softwood	10.6.2	lb/ODT	0.075	0.023	0.14	0.11	0.028	0.013
				PB, green dryer, rotary, direct								
		Green Rotary Dryer: Direct		wood-fired, mixed wood								
		Wood-fired: Mixed		species (40-60% softwood, 40-								
PB	30700678	Softwood/Hardwood	Green rotary dryer	60% hardwood)	10.6.2	lb/ODT	0.059	0.015	0.096	0.059	0.0079	0.0042
		Green Rotary Dryer: Direct										
		Natural Gas-fired:	_	PB, green dryer, rotary, direct	AP-42, Ch							
PB	30700679	Hardwood	Green rotary dryer	natural gas-fired, softwood	10.6.2	lb/ODT			0.0042			
	20700600	Green Rotary Dryer: Direct		PB, green dryer, rotary, direct	AP-42, Ch	U. (O.D.T.			0.0043			
PB	30700680	Natural Gas-fired:	Green rotary dryer	natural gas-fired, softwood	10.6.2	lb/ODT			0.0042		_	
		Green Rotary Dryer: Direct Natural Gas-fired: Mixed	1	PB, green dryer, rotary, direct	AP-42, Ch							
PB	30700691	Softwood/Hardwood	Green rotary dryer	natural gas-fired, softwood	10.6.2	lb/ODT			0.0042			
-	35700081	33.twood/Halawood	c. cen rotary uryer	Particleboard, Rotary dryer,	20.0.2	10,001			0.0042			
		Green Rotary Dryer:		indirect heated with auxiliary	AP-42, Ch							
РВ	30700682	Indirect-heated: Hardwood	Green rotary dryer	natural gas, softwood	10.6.2	lb/ODT			0.047	0.027		
			, , , , ,	Particleboard, Rotary dryer,		-,			3.0 1.	5.327		
		Green Rotary Dryer:	1	indirect heated with auxiliary	AP-42, Ch							
РВ	30700683	Indirect-heated: Softwood	Green rotary dryer	natural gas, softwood	10.6.2	lb/ODT			0.047	0.027		
		Green Rotary Dryer:		Particleboard, Rotary dryer,								
		Indirect-heated: Mixed	1	indirect heated with auxiliary	AP-42, Ch							
PB	30700684	Softwood/Hardwood	Green rotary dryer	natural gas, softwood	10.6.2	lb/ODT			0.047	0.027	<u> </u>	

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Agriculture Fiber Rotary	Rotary agricultural									
В	30700685	Dryer	fiber dryer		No EF for SCC							
				MDF saw (reclaim saw;								
		Panel Trim		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
РВ	30700686	Hammermill/Chipper	Panel trim chipper	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Sawing Operations: Pre-		MDF saw (reclaim saw;								
		Press: Urea Formaldehyde		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
В	30700687		Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Sawing Operations: Pre-		MDF saw (reclaim saw;								
		Press: Non-Urea		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
В	30700688	Formaldehyde Resin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Sawing Operations: Post-		MDF saw (reclaim saw;								
		Press: Pre-Board Cooler:		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
В	30700689	Urea Formaldehyde Resin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Sawing Operations: Post-										
		Press: Pre-Board Cooler:		MDF saw (reclaim saw;								
		Non-Urea Formaldehyde		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
В	30700690	Resin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Sawing Operations: Post-		MDF saw (reclaim saw;								
		Board Cooler: Urea		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
РВ	30700691	Formaldehyde Resin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Sawing Operations: Post-		MDF saw (reclaim saw;								
		Board Cooler: Non-Urea		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
В	30700692	Formaldehyde Resin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Combined Process Unit										
		Type Dust Collection: Dry			AP-42, Ch							
РВ	30700695	Wood Material	Other	PB flaker/refiner/hammermill	10.6.2	lb/ODT				0.0073	0.0045	5
		Combined Process Unit										
		Type Dust Collection:			AP-42, Ch							
PB	30700696	Mixed Dry and Green	Other	PB flaker/refiner/hammermill	10.6.2	lb/ODT				0.0073	0.0045	5
PB	30700697	Resin Storage Tanks	Resin storage tank		No EF for SCC							
		Miscellaneous Coating	Miscellaneous									
РВ	30700698	Operations	coating operation	None	No EF for SCC							
В	30700699	Other Not Classified	Other		No EF for SCC							
				SPW sander (8-drum sander, 1-	AP-42, Ch							
lywood	30700702	Sanding Operations	Finishing sander	drum sander, & specialty saw)	10.5	lb/MSF 3/8	0.0028	3	0.0018	0.012		
		Sawing Operations: Dry		Softwood plywood, saws								
		Veneer and Plywood		(including 3 saws, hog, and	AP-42, Ch							
olywood	30700710	Trimming	Finishing saw	sander)	10.5	lb/MSF 3/8	0.00092	2	0.00034	0.012		
		Veneer Redryer: Steam-		Radio frequency heated	AP-42, Ch							
plywood	30700720	heated	Veneer redryer	redryer, softwood	10.5	lb/MSF 3/8	0.0015	5	0.00035	0.0027		
		Veneer Laying and Glue										
lywood	30700727	Spreading	Other		No EF for SCC							
		1		SPW log steaming vat (process			1					
				rate = volume of wood	AP-42, Ch							
plywood	30700731	Log Steaming Vat	Log vat	removed from vat per hour)	10.5	lb/MSF 3/8	0.0047	'		0.0073		
							1					
olywood	30700732	Resin Storage Tanks	Resin storage tank		No EF for SCC		<u> </u>					
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-								
		Direct Wood-fired: Heated	Hardwood veneer	fired, hardwood (heated	AP-42, Ch							
olywood	30700734	Zones	dryer	zones)	10.5	lb/MSF 3/8	0.0052	<u> </u>	0.0025	0.0095		

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	SCC	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-	AP-42, CH							
		Direct Wood-fired: Cooling	Hardwood veneer	fired, hardwood (cooling	10.5 (All EF							
plywood	30700735	Section	dryer	section)	BDL)							
		Softwood Veneer Dryer:										
		Direct Wood-fired: Heated	Softwood veneer	SPW, veneer, direct wood-	AP-42, Ch							
plywood	30700736	Zones	dryer	fired, softwood (heated zones)	10.5	lb/MSF 3/8			0.045			
		Softwood Veneer Dryer:		SPW, veneer, direct natural								
		Direct Wood-fired: Cooling	Softwood veneer	gas-fired, softwood (cooling	AP-42, Ch							
plywood	30700737	Section	dryer	section)	10.5	lb/MSF 3/8	0.0034		0.0015	0.0057	0.01	
. ,		Softwood Veneer Dryer:	,	SPW, veneer, direct natural								
		Direct Natural Gas-fired:	Softwood veneer	gas-fired, softwood (heated	AP-42, Ch							
plywood	30700752	Heated Zones	dryer	zones)	10.5	lb/MSF 3/8	0.062	0.009	0.064	0.036	0.006	0.0016
p.,,	30700702	Softwood Veneer Dryer:	a.ye.	SPW, veneer, direct natural	20.5	157 11151 575	0.002	0.003	0.001	0.000	0.000	0.0010
		Direct Natural Gas-fired:	Softwood veneer	gas-fired, softwood (cooling	AP-42, Ch							
plywood	30700753	Cooling Section	dryer	section)	10.5	lb/MSF 3/8	0.0034		0.0015	0.0057	0.01	
prywood	30700733	Hardwood Veneer Dryer:	ur yer	HPW, veneer, direct wood-	10.5	15/14/31 3/0	0.0034		0.0013	0.0037	0.01	1
		Direct Natural Gas-fired:	Hardwood veneer	fired, hardwood (heated	AP-42, Ch							
nluwood	20700754	Heated Zones	dryer	zones)	10.5	lb/MSF 3/8	0.0053		0.0035	0.0005		
plywood	30700734		uryer	HPW, veneer, direct wood-	AP-42, CH	ID/10/3F 3/6	0.0052		0.0025	0.0095	1	
		Hardwood Veneer Dryer:										
.11	20700755	Direct Natural Gas-fired:	Hardwood veneer	fired, hardwood (cooling	10.5 (All EF							
plywood	30/00/55	Cooling Section	dryer	section)	BDL)	1						
		Hardwood Veneer Dryer:										
		Indirect-heated: Heated	Hardwood veneer	HPW, veneer, indirect heated,	AP-42, Ch							
plywood	30700756		dryer	hardwood (heated zones)	10.5	lb/MSF 3/8	0.0043		0.0011	0.041	0.003	3
		Hardwood Veneer Dryer:										
		Indirect-heated: Cooling	Hardwood veneer	HPW, veneer, indirect heated,	AP-42, Ch							
plywood	30700757		dryer	hardwood (cooling section)	10.5	lb/MSF 3/8	0.032		0.0065	0.021		
		Softwood Veneer Dryer:										
		Indirect-heated: Heated	Softwood veneer	SPW, veneer, indirect heated,	AP-42, Ch							
plywood	30700762	Zones	dryer	softwood (heated zones)	10.5	lb/MSF 3/8	0.017	0.0013	0.014	0.039	0.0034	0.0024
		Softwood Veneer Dryer:										
		Indirect-heated: Cooling	Softwood veneer	SPW, veneer, indirect heated,	AP-42, Ch							
plywood	30700763	Section	dryer	softwood (cooling section)	10.5	lb/MSF 3/8	0.0046		0.0013	0.01	0.0062	2
		Veneer Redryer: Radio										
		Frequency-heated:		SPW, veneer, RF heated,	AP-42, Ch							
plywood	30700770	Hardwood	Veneer redryer	softwood	10.5	lb/MSF 3/8	0.0015		0.00035	0.0027		
		Veneer Redryer: Radio										
		Frequency-heated:		SPW, veneer, RF heated,	AP-42, Ch							
plywood	30700771	Softwood	Veneer redryer	softwood	10.5	lb/MSF 3/8	0.0015		0.00035	0.0027		
. ,			,									
plywood	30700773	Board Cooler	Other		No EF for SCC							
,		Combined Process Unit										
		Type Dust Collection: Dry		SPW skinner & equalizer saws	AP-42, Ch							
plywood	30700777	Wood Material	Other	(3 saws, hog, and sander)	10.5	lb/MSF 3/8	0.00092		0.00034	0.012		
	33.33777	Combined Process Unit		(),		, 5/6	3.30032		2.00034	5.012		1
	1	Type Dust Collection:		SPW skinner & equalizer saws	AP-42, Ch	1						
plywood	30700779	Mixed Dry and Green	Other	(3 saws, hog, and sander)	10.5	lb/MSF 3/8	0.00092		0.00034	0.012		
PIYWOOU	30700778	Press: Non-Phenol	Janei	10 saws, nog, and sander	10.5	13/14/31 3/0	0.00092		0.00034	0.012		<u> </u>
	1	Formaldehyde Resin:	Softwood plywood	Softwood Plywood, press, PF	AP-42, Ch	1			1	1		
nhavood	20700793	· ·		, ,,	10.5	Ib/MCE 2/9	0.0043		0.0010	0.14	0.0014	.]
plywood	30/00/82	Softwood Press: Phenol	press Softwood plywood	resin Softwood Plywood, press, PF	10.5 AP-42, Ch	lb/MSF 3/8	0.0042		0.0019	0.14	0.0014	'
mbaue	20700703					Ib /MCF 2 /C	0.0043		0.0010		0.004	.]
plywood	30/00/83	Formaldehyde Resin:	press	resin	10.5	lb/MSF 3/8	0.0042		0.0019	0.14	0.0014	1

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Press: Non-Urea		·			,		·			
		Formaldehyde Resin:	Hardwood plywood									
plywood	30700784	Hardwood	press		No EF for SCC							
		Press: Urea Formaldehyde	Hardwood plywood	Hardwood Plywood, press, UF	AP-42, Ch							
plywood	30700785	Resin: Hardwood	press	resin	10.5	lb/MSF 3/8			0.0047	0.032	0.011	
				SPW dry trim chipper (chips								
				dry trim from SPW panel saws;								
		Hammermill/Chipper: Dry		process rate = finished board	AP-42, Ch							
plywood	30700791	Wood Material	Panel trim chipper	production)	10.5	lb/MSF 3/8				0.0078		
		Miscellaneous Coating	Miscellaneous									
plywood	30700794	Operations	coating operation		No EF for SCC							
plywood	30700799	Other Not Classified	Other		No EF for SCC					<u> </u>		<u> </u>
		Lumber Kiln: Indirect-										
		heated: Softwood: Pine	1									
lumber	30700841	Species	Lumber kiln		NCASI 2014	lb/MBF	0.04	0.004	0.016	0.18	0.01	0.004
		Lumber Kiln: Indirect-										
		heated: Softwood: Non-										
lumber	30700842	Pine Species	Lumber kiln		NCASI 2014	lb/MBF	0.04	0.004	0.016	0.18	0.01	0.004
		Lumber Kiln: Indirect-										
lumber	30700843	heated: Hardwood	Lumber kiln		NCASI 2014	lb/MBF	0.04	0.004	0.016	0.18	0.01	0.004
		Lumber Kiln: Direct-fired:										
lumber	30700844	Softwood: Pine Species	Lumber kiln		NCASI 2014	lb/MBF	0.04	0.004	0.065	0.18	0.01	0.004
		Lumber Kiln: Direct-fired:										
		Softwood: Non-Pine										
lumber	30700845	Species	Lumber kiln		NCASI 2014	lb/MBF	0.04	0.004	0.065	0.18	0.01	0.004
		Lumber Kiln: Direct-fired:										
lumber	30700846	Hardwood	Lumber kiln		NCASI 2014	lb/MBF	0.04	0.004	0.065	0.18	0.01	0.004
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Natural Gas-										
		fired: Blowline Blend: Non-		MDF, tube, direct wood-fired,	AP-42, Ch							
MDF	30700909		Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Natural Gas-										
		fired: Blowline Blend: Non-		MDF, tube, direct wood-fired,	AP-42, Ch	,						
MDF	30700910		Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Natural Gas-										
		fired: Blowline Blend: Non-		MDS the first and Sud-	4D 42 Cl							
MDE	20700044	Urea Formaldehyde Resin:	Drimony tule - descri	MDF, tube, direct wood-fired,	AP-42, Ch	Ib/ODT			0.00			
MDF	30700911		Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized	1									
		Refiner/Primary Tube										
		Dryer: Direct Natural Gas- fired: Blowline Blend: Urea		MDF, tube, direct wood-fired,	AP-42, Ch							
MDE	20700013	Formaldehyde Resin:	Drimany tubo drivar	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
MDF	30700912	ormanuerryue Resin.	Primary tube dryer	biowillie biella, UF, SUITWOOD	10.0.3	וט/טטו	<u> </u>	ļ	0.86	<u> </u>	<u> </u>	L

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				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Pressurized	71-				, , , , , , , , , , , , , , , , , , , ,		, , , , , ,			, , , , , , , , , , , , , , , , , , , ,
		Refiner/Primary Tube										
		Dryer: Direct Natural Gas-										
		fired: Blowline Blend: Urea		MDF, tube, direct wood-fired,	AP-42, Ch							
MDF	30700913	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Natural Gas-										
		fired: Blowline Blend: Urea		MDF, tube, direct wood-fired,	AP-42, Ch							
MDF	30700914	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:		MDF, tube, direct wood-fired,	AP-42, Ch							
MDF	30700915	Non-Blowline Blend:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized	, ,									
		Refiner/Primary Tube		MDF, Tube dryer, direct								
		Dryer: Direct Wood-fired:		natural gas-fired, non-blowline	AP-42, Ch							
MDF	30700916	Non-Blowline Blend:	Primary tube dryer	blend, hardwood	10.6.3	lb/ODT			0.0085	0.96		
		Pressurized										
		Refiner/Primary Tube		MDF, Tube dryer, direct								
		Dryer: Direct Wood-fired:		natural gas-fired, non-blowline	AP-42, Ch							
MDF	30700917	Non-Blowline Blend: Mixed	Primary tube dryer	blend, hardwood	10.6.3	lb/ODT			0.0085	0.96		
		Pressurized	, ,									
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
		Blowline Blend: Non-Urea		MDF, tube, direct wood-fired,	AP-42, Ch							
MDF	30700918	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
		Blowline Blend: Non-Urea		MDF, tube, direct wood-fired,	AP-42, Ch							
MDF	30700919	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
		Blowline Blend: Non-Urea		MDF, tube, direct wood-fired,	AP-42, Ch							
MDF	30700920	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
		Blowline Blend: Urea		MDF, tube, direct wood-fired,	AP-42, Ch							
MDF	30700923	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube	1									
		Dryer: Direct Wood-fired:	1							1		
		Blowline Blend: Urea	1	MDF, tube, direct wood-fired,	AP-42, Ch	1.						
MDF	30700924	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86			
		Pressurized										
		Refiner/Primary Tube	1									
		Dryer: Direct Wood-fired:	1							1		
		Blowline Blend: Urea	1	MDF, tube, direct wood-fired,	AP-42, Ch	L						
MDF	30700925	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT			0.86	1		

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Pressurized		NADE I LE III III III III III III III III I								
		Refiner/Primary Tube		MDF, tube, direct natural gas-	AD 42 Ch							
MDE	20700026	Dryer: Direct Natural Gas- fired: Non-Blowline Blend:	Driman, tuba druar	fired, non-blowline blend,	AP-42, Ch 10.6.3	Ib/ODT			0.0005	0.00		
MDF	30700920	Pressurized	Primary tube dryer	hardwood	10.6.3	lb/ODT			0.0085	0.96		
		Refiner/Primary Tube		MDF, tube, direct natural gas-								
		Dryer: Direct Natural Gas-		fired, non-blowline blend,	AP-42, Ch							
MDF	30700927	· ·	Primary tube dryer	hardwood	10.6.3	lb/ODT			0.0085	0.96		
IVIDI	30700927	Pressurized	Filliary tube dryer	naruwood	10.0.3	10/001			0.0083	0.90		
		Refiner/Primary Tube										
		Dryer: Direct Natural Gas-		MDF, tube, direct natural gas-								
		fired: Non-Blowline Blend:		fired, non-blowline blend,	AP-42, Ch							
MDF	30700928		Primary tube dryer	hardwood	10.6.3	lb/ODT			0.0085	0.96		
	30700320	Pressurized	i i i i i i i i i i i i i i i i i i i		20.0.0	.5, 55.			0.0003	0.55		
		Refiner/Primary Tube										
		Dryer: Indirect-heated:										
		Blowline Blend: Non-Urea		MDF, tube, indirect heated,	AP-42, Ch							
MDF	30700929	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT	0.02		0.22	0.87	0.023	
	30700323	Pressurized	i i i i i i i i i i i i i i i i i i i	ziemine ziema, et y seitmeea	10.0.0	.5, 55.	0.02		0.22	0.07	0.023	
		Refiner/Primary Tube										
		Dryer: Indirect-heated:										
		Blowline Blend: Non-Urea		MDF, tube, indirect heated,	AP-42, Ch							
MDF	30700930	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, hardwood		lb/ODT	0.013		0.26			
IVIDI	30700330	Pressurized	i i i i i i i i i i i i i i i i i i i	biowinie biena, or, naraweea	10.0.5	15,051	0.013		0.20			
		Refiner/Primary Tube										
		Dryer: Indirect-heated:										
		Blowline Blend: Urea		MDF, tube, indirect heated,	AP-42, Ch							
MDF	30700932	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT	0.02		0.22	0.87	0.023	
IVIDI	30700332	Pressurized	Trimary tube dryer	blownine blend, or , sortwood	10.0.5	10/001	0.02		0.22	0.07	0.023	
		Refiner/Primary Tube										
		Dryer: Indirect-heated:										
		Blowline Blend: Non-Urea		MDF, tube, indirect heated,	AP-42, Ch							
MDF	30700934		Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT	0.02		0.22	0.87	0.023	
	30700331	Pressurized	i i i i i i i i i i i i i i i i i i i	Siema, et , seitmeed	20.0.0	.5, 55.	0.02		0.22	0.07	0.023	
		Refiner/Primary Tube										
		Dryer: Indirect-heated:										
		Blowline Blend: Urea		MDF, tube, indirect heated,	AP-42, Ch							
MDF	30700936	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, hardwood	10.6.3	lb/ODT	0.013		0.26			
	30700330	Pressurized	i i i i i i i i i i i i i i i i i i i	Signature Signa, Gr., marawega	20.0.0	.5, 55.	0.013		0.20			
		Refiner/Primary Tube										
		Dryer: Indirect-heated:										
		Blowline Blend: Urea		MDF, tube, indirect heated,	AP-42, Ch							
MDF	30700939	Formaldehyde Resin:	Primary tube dryer	blowline blend, UF, softwood	10.6.3	lb/ODT	0.02		0.22	0.87	0.023	1
	11.00000	Secondary Tube Dryer: All	, 1220 0. , 01	MDF, second stage tube dryer,		-,	3.02		0.22	3.67	0.023	<u> </u>
MDF	30700942	Indirect-fired Units	Secondary tube dryer	indirect heated, softwood	10.6.3	lb/ODT	0.0035		0.021	0.015		1
<u> </u>	11.00542	Secondary Tube Dryer: All	, , , , , , , , , , , , , , , , , , , ,			-,	2.2033		5.021	5.515		1
MDF	30700943	Direct-fired Units	Secondary tube dryer		No EF for SCC							
	1 221 223 13		, , , , , , , , , , , , , , , , , , , ,									1
MDF	30700946	Fiber Dryers: Other	Other		No EF for SCC							1
	11,00040	Agriculture Fiber Rotary	Rotary agricultural		12 21 101 000							<u> </u>
MDF	30700947	Dryer	fiber dryer		No EF for SCC							1
	1	Reconstituted Wood	/-		1 230	<u> </u>	1			†	t	1
		Products Press:	Reconstituted wood		AP-42, Ch							1
MDF	20700050	Continuous: Urea	product press	MDF, press, UF resin	10.6.3	lb/MSF 3/4	0.014	0.0012	0.48	0.56	0.027	0.0005

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Reconstituted Wood										
		Products Press:										
		Continuous: Non-Urea	Reconstituted wood		AP-42, Ch							
MDF	30700951	Formaldehyde Resin	product press	MDF, press, UF resin	10.6.3	lb/MSF 3/4	0.014	0.0012	0.48	0.56	0.027	0.00054
		Reconstituted Wood										
		Products Press: Batch: Urea	Reconstituted wood		AP-42, Ch							
MDF	30700960	Formaldehyde Resin	product press	MDF, press, UF resin	10.6.3	lb/MSF 3/4	0.014	0.0012	0.48	0.56	0.027	0.00054
		Reconstituted Wood										
		Products Press: Batch: Non-	Reconstituted wood		AP-42, Ch							
MDF	30700961	Urea Formaldehyde Resin	product press	MDF, press, UF resin	10.6.3	lb/MSF 3/4	0.014	0.0012	0.48	0.56	0.027	0.00054
		Agriculture Fiber Board	Agriculture fiber									
MDF	30700962	Press	board press		No EF for SCC							
		Board Cooler: Urea	Reconstituted wood		AP-42, Ch							
MDF	30700971	Formaldehyde Resin	product board cooler	MDF board cooler, UF resin	10.6.3	lb/MSF 3/4	0.001	0.00022	0.042	0.025		
		Board Cooler: Non-Urea	Reconstituted wood		AP-42, Ch							
MDF	30700972	Formaldehyde Resin	product board cooler	MDF board cooler, UF resin	10.6.3	lb/MSF 3/4	0.001	0.00022	0.042	0.025		
		Former Without Blowline		MDF former without blowline								
		Blend: Non-Urea		blend, UF resin (includes	AP-42, Ch							
MDF	30700977	Formaldehyde Resin	Former	blender emissions)	10.6.3	lb/ODT			0.06	0.41		
		Former With Blowline		MDF former without blowline								
		Blend: Non-Urea		blend, UF resin (includes	AP-42, Ch							
MDF	30700978	Formaldehyde Resin	Former	blender emissions)	10.6.3	lb/ODT			0.06	0.41		
		Blender: Non-Urea		,								
MDF	30700979	Formaldehyde Resin	Blender		No EF for SCC							
		Blender: Urea			AP-42, Ch							
MDF	30700980	Formaldehyde Resin	Blender	MDF paddle blender, UF resin	10.6.3	lb/ODT			0.01	0.48		
	-	Former Without Blowline		MDF former without blowline		,			0.01	01.10		
		Blend: Urea Formaldehyde		blend, UF resin (includes	AP-42, Ch							
MDF	30700981	,	Former	blender emissions)	10.6.3	lb/ODT			0.06	0.41		
	30700301	Former With Blowline	T GT THE	MDF former with blowline	AP-42, Ch	.5, 65.			0.00	0.41		
MDF	30700982	Blend: Urea Formaldehyde	Former	blend, UF resin	10.6.3	lb/ODT			0.0051	0.017		
IVIDI	30700302	Sanding Operations: Urea	ronner	biena, or resin	AP-42, Ch	10,001			0.0031	0.017		
MDF	30700983	Formaldehyde Resin	Finishing sander	MDF sander	10.6.3	lb/MSF			0.0027	0.0043	0.0069	
IVIDI	30700303	Sawing Operations: Pre-	i iiiisiiiiig sailaci	MDF saw (reclaim saw;	10.0.3	16/14/51			0.0027	0.0043	0.0003	
		Press: Urea Formaldehyde		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
MDF	30700984		Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
IVIDI	30700984	Sanding Operations: Non-	i iiiisiiiiig saw	reciainieu [tiiiiiiieu] materiai)	AP-42, Ch	reciaiiii				0.38		
MDF	20700085	Urea Formaldehyde Resin	Finishing sander	MDF sander	10.6.3	lb/MSF			0.0027	0.0043	0.0069	
IVIDI	30700983	Sawing Operations: Pre-	i iiiisiiiiig sanuei	MDF saw (reclaim saw;	10.0.3	10/10/31			0.0027	0.0043	0.0003	
		Press: Non-Urea		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
MDF	20700086	Formaldehyde Resin	Finishing saw	· ·	10.6.3	reclaim				0.38		
IVIDE	30700980	· · · · · · · · · · · · · · · · · · ·	riilisiiiiig saw		10.0.3	reciaiiii				0.36		
		Sawing Operations: Post- Board Cooler: Urea		MDF saw (reclaim saw; emission factors in lb/MSF of	AD 42 Ch	lb/MSF						
MADE	20700007		Finishing and	· ·	AP-42, Ch	· ·				0.20		
MDF	30700987	Formaldehyde Resin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Sawing Operations: Post-		MDF saw (reclaim saw;	4 D 4 2 C	II. /b.465						
MDE	2070000	Board Cooler: Non-Urea	Finishing	emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
MDF	30700988	Formaldehyde Resin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim	-			0.38		
		Sawing Operations: Post-		MDF saw (reclaim saw;	AD 42 C	II- /NAC5						
		Press: Pre-Board Cooler:		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
MDF	30700989	Urea Formaldehyde Resin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Sawing Operations: Post-										
		Press: Pre-Board Cooler:		MDF saw (reclaim saw;								
		Non-Urea Formaldehyde	.	emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
MDF	30700990	Kesin	Finishing saw	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
				MDF saw (reclaim saw;								
		Panel Trim		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
MDF	30700991	Hammermill/Chipper	Panel trim chipper	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Combined Process Unit		MDF saw (reclaim saw;								
		Type Dust Collection: Dry		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
MDF	30700994	Wood Material	Other	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
		Combined Process Unit		MDF saw (reclaim saw;								
		Type Dust Collection:		emission factors in lb/MSF of	AP-42, Ch	lb/MSF						
MDF	30700995	Mixed Dry and Green	Other	reclaimed [trimmed] material)	10.6.3	reclaim				0.38		
MDF	30700996	Resin Storage Tanks	Resin storage tank		No EF for SCC							
		Miscellaneous Coating	Miscellaneous									
MDF	30700997	Operations	coating operation	None	No EF for SCC							
MDF	30700999	Other Not Classified	Other		No EF for SCC							
		Rotary Strand Dryer: Direct		OSB, rotary, direct wood-fired,	AP-42, Ch							
OSB	30701009	Wood-fired: Softwood	Rotary strand dryer	softwood	10.6.1	lb/ODT	0.11	0.072	0.13	0.1	0.015	0.011
		Rotary Strand Dryer: Direct		OSB, rotary, direct wood-fired,	AP-42, Ch							
OSB	30701010	Wood-fired: Hardwood	Rotary strand dryer	hardwood	10.6.1	lb/ODT	0.62	0.2	0.11	0.33	0.028	0.034
		Rotary Strand Dryer: Direct		OSB, rotary, direct wood-fired,								
		Wood-fired: Mixed		mixed wood species (40-60%	AP-42, Ch							
OSB	30701015	Softwood/Hardwood	Rotary strand dryer	softwood, 40-60% hardwood)	10.6.1	lb/ODT	0.11	0.033	0.34			0.0098
		Rotary Strand Dryer: Direct										
		Natural Gas-fired:		OSB, rotary, direct natural gas-	AP-42, Ch							
OSB	30701020	Hardwood	Rotary strand dryer	fired, hardwood	10.6.1	lb/ODT			0.036			
		Rotary Strand Dryer: Direct		OSB, rotary, direct wood-fired,	AP-42, Ch							
OSB	30701021	Natural Gas-fired:	Rotary strand dryer	softwood	10.6.1	lb/ODT	0.11	0.072	0.13	0.1	0.015	0.011
		Rotary Strand Dryer: Direct										
		Natural Gas-fired: Mixed		OSB, rotary, direct natural gas-	AP-42, Ch							
OSB	30701022	Softwood/Hardwood	Rotary strand dryer	fired, hardwood	10.6.1	lb/ODT			0.036			
		Rotary Strand Dryer:										
OSB	30701030	Indirect-heated: Hardwood	Rotary strand dryer		No EF for SCC							
		Rotary Strand Dryer:		OSB, rotary, direct wood-fired,	AP-42, Ch							
OSB	30701031	Indirect-heated: Softwood	Rotary strand dryer	softwood	10.6.1	lb/ODT	0.11	0.072	0.13	0.1	0.015	0.011
		Rotary Strand Dryer:										
		Indirect-heated: Mixed										
OSB	30701032	Softwood/Hardwood	Rotary strand dryer		No EF for SCC							
		Indirect-heated Conveyor	Conveyor strand									
OSB	30701039	Dryer, Softwood	dryer		No EF for SCC							
		Conveyor Dryer: Heated	Conveyor strand	OSB, conveyor, indirect	AP-42, Ch							
OSB	30701040	Zones: Hardwood	dryer	heated, hardwood (heated	10.6.1	lb/ODT			0.0024			
		Conveyor Dryer: Heated	Conveyor strand	OSB, conveyor, indirect	AP-42, Ch							
OSB	30701041	Zones: Softwood	dryer	heated, hardwood (heated	10.6.1	lb/ODT			0.0024			
		Conveyor Dryer: Heated		OSB, conveyor, indirect								
		Zones: Mixed	Conveyor strand	heated, hardwood (heated	AP-42, Ch							
OSB	30701042	Hardwood/Softwood	dryer	zones)	10.6.1	lb/ODT			0.0024			
		Conveyor Dryer: Unheated	Conveyor strand									
OSB	30701043	Zones: All Species	dryer		No EF for SCC							
		Reconstituted Wood										
		Products Press: Phenol	Reconstituted wood	OSB, hot press, PF resin	AP-42, Ch							
OSB	30701053	Formaldehyde Resin	product press	(liquid)	10.6.1	lb/MSF 3/8	0.0052		0.044	0.5	0.072	<u> </u>

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				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Reconstituted Wood										
		Products Press: Methylene										
		Diphenyl Diisocyanate	Reconstituted wood		AP-42, Ch							
OSB	30701055	(MDI) Resin	product press	OSB, press, MDI resin	10.6.1	lb/MSF 3/8			0.064			
		Reconstituted Wood										
		Products Press: Phenol										
		Formaldehyde Resin										
		(surface layers)/										
		Methylene Diphenyl	Reconstituted wood	_	AP-42, Ch							
)SB	30701057	Diisocyanate (MDI) Resin	product press	OSB, press, PF/MDI resin	10.6.1	lb/MSF 3/8	0.01		0.056	0.25	0.015	
		Reconstituted Wood	Reconstituted wood	OSB, hot press, PF resin	AP-42, Ch							
SB	30701058	Products Press	product press	(powder)	10.6.1	lb/MSF 3/8			0.14			
				OSB sanderdust metering bin								
				(holds fuel for dryer and	4 D 4 2 C							
	20704062	Continuo O continuo	et distriction of the	thermal oil heater suspension	AP-42, Ch	U. /b.465.2./0				0.00073		
SB	30701062	Sanding Operations	Finishing sander	burners)	10.6.1	lb/MSF 3/8				0.00073		
NC D	20701064	Storage Bins: Trimming and Dryer Exhaust Cyclone Dust		OSB raw fuel bin (holds fines	AP-42, Ch 10.6.1	IP /VVCL 3 /0			0.0003	0.0015		
SB	30701064	Dryer Exhaust Cyclone Dust	Other	from screens and saws) OSB sanderdust metering bin	10.6.1	lb/MSF 3/8			0.0003	0.0015		
		Combined Process Unit		(holds fuel for dryer and								
		Type Dust Collection: Dry		thermal oil heater suspension	AP-42, Ch							
SB	30701067	Wood Material	Other	burners)	10.6.1	lb/MSF 3/8				0.00073		
30	30701007	Combined Process Unit	Other	OSB sanderdust metering bin	10.0.1	10/10/31 3/6				0.00073		
		Type Dust Collection:		(holds fuel for dryer and								
		Mixed Dry and Green		thermal oil heater suspension	AP-42, Ch							
SB	30701068	Wood Material	Other	burners)	10.6.1	lb/MSF 3/8				0.00073		
		Blender: Phenol			AP-42, Ch	, , .						
SB	30701070	Formaldehyde Resin	Blender	OSB blender (PF & MDI resin)	10.6.1	lb/MSF 3/8			0.0036	0.063		
		Blender: Methylene		,								
		Diphenyl Diisocyanate			AP-42, Ch							
SB	30701071	(MDI) Resin	Blender	OSB blender (PF & MDI resin)	10.6.1	lb/MSF 3/8			0.0036	0.063		
		Former: Phenol										
SB	30701072	Formaldehyde Resin	Former		No EF for SCC							
		Former Operations:										
		Methylene Diphenyl										
SB	30701073	Diisocyanate (MDI) Resin	Former		No EF for SCC							
		Former Operations: Phenol										
		Formaldehyde										
		Resin/Methylene Diphenyl										
SB	30701074	Diisocyanate (MDI) Resin	Former	CDM de la constant de	No EF for SCC				-	-		
				SPW dry trim chipper (chips								
	1	11		dry trim from SPW panel saws;	AD 42 C							
CD.	20704004	Hammermill/Chipper: Dry	Daniel tuine abienese	process rate = finished board	AP-42, Ch	II- /NACE 2/0				0.0070		
SB	30/01084	Wood Material	Panel trim chipper	production)	10.5	lb/MSF 3/8	-		+	0.0078		
	1	Hammermill/Chipper:		SPW dry trim chipper (chips dry trim from SPW panel saws;								
		Mixed Green and Dry		process rate = finished board	AP-42, Ch							
SB	30701095	Wood Material	Panel trim chipper	production)	AP-42, Ch 10.5	lb/MSF 3/8				0.0078		
טטי	30701083	Miscellaneous Coating	Miscellaneous	productions	10.5	וטן ועוטר ט/ס				0.0078		
SB	30701086	Operations	coating operation		No EF for SCC							
	30701080	o per accord	coating operation		101 300							
OSB	30701087	Resin Storage Tanks	Resin storage tank		No EF for SCC							

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Sawing Operations: Pre-										
		Press Mat Trimming:		OSB raw fuel bin (holds fines	AP-42, Ch							
OSB	30701090	Phenol Formaldehyde	Finishing saw	from screens and saws)	10.6.1	lb/MSF 3/8			0.0003	0.0015		
		Sawing Operations: Pre-										
		Press Mat Trimming:										
	2224224	Methylene Diphenyl		OSB raw fuel bin (holds fines	AP-42, Ch							
OSB	30701091	Diisocyanate (MDI) Resin	Finishing saw	from screens and saws)	10.6.1	lb/MSF 3/8			0.0003	0.0015		
		Sawing Operations: Pre-										
		Press Mat Trimming:										
		Phenol Formaldehyde		OSB raw fuel bin (holds fines	AP-42, Ch							
OSB	20701002	Resin/Methylene Diphenyl Diisocyanate (MDI) Resin	Einiching caw	from screens and saws)	10.6.1	lb/MSF 3/8			0.0003	0.0015		
ОЗВ	30701092	Sawing Operations: Post-	Finishing saw	from screens and saws)	10.6.1	ID/IVISF 3/8			0.0003	0.0015		
		Press Panel Trimming:		OSB raw fuel bin (holds fines	AP-42, Ch							
OSB	30701093	Phenol Formaldehyde	Finishing saw	from screens and saws)	10.6.1	lb/MSF 3/8			0.0003	0.0015		
035	30701033	Sawing Operations: Post-	Timishing saw	irom sercens and sawsy	10.0.1	15/14/51 5/6			0.0003	0.0013		
		Press Panel Trimming:										
		Methylene Diphenyl		OSB raw fuel bin (holds fines	AP-42, Ch							
OSB	30701094	Diisocyanate (MDI) Resin	Finishing saw	from screens and saws)	10.6.1	lb/MSF 3/8			0.0003	0.0015		
		Sawing Operations: Post-	. 0	,		, , , , , ,						
		Press Panel Trimming:										
		Phenol Formaldehyde										
		Resin/Methylene Diphenyl		OSB raw fuel bin (holds fines	AP-42, Ch							
OSB	30701095	Diisocyanate (MDI) Resin	Finishing saw	from screens and saws)	10.6.1	lb/MSF 3/8			0.0003	0.0015		
OSB	30701099	Other Not Classified	Other		No EF for SCC							
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
		Blowline Blend: Non-		HB, tube, direct wood-fired,	AP-42, Ch					_		
НВ	30/01401	Phenol Formaldehyde	Primary tube dryer	blowline blend, PF, hardwood	10.6.4	lb/ODT	0.11		0.26	1	0.083	3
		Pressurized Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
		Blowline Blend: Non-		HB, tube, direct wood-fired,	AP-42, Ch							
НВ	30701/102	Phenol Formaldehyde	Primary tube dryer	blowline blend, PF, hardwood	10.6.4	lb/ODT	0.11		0.26	1	0.083	
110	30701402	Pressurized	r rinary tabe aryer	biowine biena, i i , narawood	10.0.4	10,001	0.11		0.20	-	0.003	1
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:						1	1			
		Blowline Blend: Non-		HB, tube, direct wood-fired,	AP-42, Ch			1				
НВ	30701403	Phenol Formaldehyde	Primary tube dryer	blowline blend, PF, hardwood	10.6.4	lb/ODT	0.11		0.26	1	0.083	3
		Pressurized										
		Refiner/Primary Tube						1	1			
		Dryer: Natural Gas-fired:		HB, tube, direct natural gas-				1	1			
		Blowline Blend: Non-		fired, blowline blend, PF,	AP-42, Ch							
НВ	30701404	Phenol Formaldehyde	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
_		Pressurized						_		_		
		Refiner/Primary Tube						1	1			
		Dryer: Natural Gas-fired:		HB, tube, direct natural gas-				1	1			
	2072117	Blowline Blend: Non-		fired, blowline blend, PF,	AP-42, Ch	II. /OD=			1			
HB	30701405	Phenol Formaldehyde	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041

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				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Natural Gas-fired:		HB, tube, direct natural gas-								
		Blowline Blend: Non-		fired, blowline blend, PF,	AP-42, Ch							
НВ	30701406	Phenol Formaldehyde	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Indirect-fired:		HB, tube, direct natural gas-								
		Blowline Blend: Phenol		fired, blowline blend, PF,	AP-42, Ch							
НВ	30701407	,	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Indirect-fired:		HB, tube, direct natural gas-								
		Blowline Blend: Phenol		fired, blowline blend, PF,	AP-42, Ch							
НВ	30701408	Formaldehyde Resin:	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Indirect-fired:		HB, tube, direct natural gas-								
		Blowline Blend: Phenol		fired, blowline blend, PF,	AP-42, Ch							
НВ	30701409	Formaldehyde Resin:	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
	20704440	Blowline Blend: Phenol	D	HB, tube, direct wood-fired,	AP-42, Ch	U. (ODT	0.44		0.20		0.000	
НВ	30/01410	Formaldehyde Resin: Pressurized	Primary tube dryer	blowline blend, PF, hardwood	10.6.4	lb/ODT	0.11		0.26	1	0.083	
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
		Blowline Blend: Phenol		HB, tube, direct wood-fired,	AP-42, Ch							
НВ	30701411		Primary tube dryer	blowline blend, PF, hardwood	10.6.4	lb/ODT	0.11		0.26	1	0.083	
110	30701411	Pressurized	Filliary tube dryer	blownine blend, F1, nardwood	10.0.4	10/001	0.11		0.20	1	0.063	
		Refiner/Primary Tube										
		Dryer: Direct Wood-fired:										
		Blowline Blend: Phenol		HB, tube, direct wood-fired,	AP-42, Ch							
НВ	30701412	Formaldehyde Resin:	Primary tube dryer	blowline blend, PF, hardwood	10.6.4	lb/ODT	0.11		0.26	1	0.083	
		Pressurized	, , , , , , , , , , , , , , , , , , , ,			,	0.11		0.20	-	0.000	
		Refiner/Primary Tube										
		Dryer: Natural Gas-fired:		HB, tube, direct natural gas-								
		Blowline Blend: Phenol		fired, blowline blend, PF,	AP-42, Ch							
НВ	30701413	Formaldehyde Resin:	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Natural Gas-fired:		HB, tube, direct natural gas-								
		Blowline Blend: Phenol		fired, blowline blend, PF,	AP-42, Ch							
НВ	30701414	Formaldehyde Resin:	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
		Pressurized										
		Refiner/Primary Tube							1			
		Dryer: Natural Gas-fired:		HB, tube, direct natural gas-					1			
		Blowline Blend: Phenol		fired, blowline blend, PF,	AP-42, Ch				1			
НВ	30701415	Formaldehyde Resin:	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	SCC	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Pressurized										
		Refiner/Primary Tube										
		Dryer: Indirect-fired:		HB, tube, direct natural gas-								
		Blowline Blend: Non-		fired, blowline blend, PF,	AP-42, Ch						0.050	
НВ	30701417	,	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
		Pressurized										
		Refiner/Primary Tube Dryer: Indirect-fired:		IID tube direct petural cas								
		Blowline Blend: Non-		HB, tube, direct natural gas- fired, blowline blend, PF,	AP-42, Ch							
НВ	20701/119	Phenol Formaldehyde	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
ПВ	30701418	Pressurized	riiiiai y tube ui yei	nardwood	10.0.4	10/001	0.0090	0.0041	1.1	1.4	0.030	0.041
		Refiner/Primary Tube										
		Dryer: Indirect-fired:		HB, tube, direct natural gas-								
		Blowline Blend: Non-		fired, blowline blend, PF,	AP-42, Ch							
НВ	30701419	Phenol Formaldehyde	Primary tube dryer	hardwood	10.6.4	lb/ODT	0.0096	0.0041	1.1	1.4	0.056	0.041
	30701123	- Hellot i offiliaraetiyae	rimary table aryer	HB, tempering oven, direct	AP-42, Ch	.5, 55 .	0.0030	0.0041	1.1	2.7	0.030	0.041
НВ	30701421	Hardboard Oven	Hardboard oven	natural gas-fired, hardwood	10.6.4	lb/MSF 1/8	0.076	0.024	0.0043	0.015	0.0019	0.1
	30701.21	Secondary Tube Dryer: All	narazoara oren	HB, second stage tube dryer,	AP-42, Ch	10,11101 2,0	0.070	0.02	0.00.13	0.025	0.0013	0.1
НВ	30701423	Direct-fired Units	Secondary tube dryer	indirect heated, hardwood	10.6.4	lb/ODT			0.017	0.042	0.039	
		Secondary Tube Dryer: All	, , ,	HB, second stage tube dryer,	AP-42, Ch	, -						
НВ	30701424	Indirect-fired Units	Secondary tube dryer	indirect heated, hardwood	10.6.4	lb/ODT			0.017	0.042	0.039	
НВ	30701426	Fiber Dryers: Other	Other		No EF for SCC							
		,		FB, board dryer, indirect								
		Press Pre-Dryer: Phenol	Hardboard press	heated, softwood, starch	AP-42, Ch							
НВ	30701427	Formaldehyde Resin	predryer	binder (heated zones)	10.6.4	lb/MSF 1/2	0.00097	0.00057	0.0093	0.017	0.0012	0.00069
		Press Pre-Dryer: Non-		HB, board dryer, direct natural								
		Phenol Formaldehyde	Hardboard press	gas-fired, softwood, linseed oil	AP-42, Ch							
НВ	30701428	Resin	predryer	binder (heated zones)	10.6.4	lb/MSF 1/2	0.053	0.037	0.059	0.047	0.0018	0.025
			Hardboard	HB, humidification kiln,	AP-42, Ch							
HB	30701431	Humidifier	humidifier	indirect heated	10.6.4	lb/MSF 1/8	0.0018	0.0087	0.001		0.00057	0.0077
		Dry Hardboard Press:	Reconstituted wood		AP-42, Ch							
НВ	30701441	Phenol Formaldehyde	product press	Hardboard, press, PF resin	10.6.4	lb/MSF 1/8	0.016		0.014	0.25	0.01	
		Dry Hardboard Press: Non-	Reconstituted wood	Hardboard, press, linseed oil	AP-42, Ch							
НВ	30701443	Phenol Formaldehyde	product press	binder	10.6.4	lb/MSF 1/8	0.036	0.0057	0.018	0.093	0.0039	0.031
		Wet Hardboard Press:	Reconstituted wood		AP-42, Ch							
НВ	30701444	Phenol Formaldehyde	product press	Hardboard, press, PF resin	10.6.4	lb/MSF 1/8	0.016		0.014	0.25	0.01	
			Reconstituted wood		AP-42, Ch							
НВ	30701445	Phenol Formaldehyde	product press	Hardboard, press, PF resin	10.6.4	lb/MSF 1/8	0.016		0.014	0.25	0.01	
		Blender: Phenol			AP-42, Ch							
НВ	30/01450	Formaldehyde Resin	Blender	OSB blender (PF & MDI resin)	10.6.1	lb/MSF 3/8			0.0036	0.063		
LID	20701451	Blender: Non-Phenol	Diameter		N = FF f= + CCC							
НВ	30701451	Formaldehyde Resin	Blender		No EF for SCC							
LID	20704 452	Ethan Maria India	et	50	AP-42, Ch	II. (ODT	0.045		0.0026	0.43		
НВ	30/01452	Fiber Washer	Fiber washer	FB, washer, softwood	10.6.4	lb/ODT	0.015		0.0026	0.13		
Lup	20704455	Digastori Coft	Stand plane dieser	HB pressurized	AP-42, Ch	Ib/ODT	0.00	0.0024	0.0045	0.35	0.0013	0.00004
НВ	30/01455	Digester: Softwood	Stand alone digester	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
шв	20701450	Digostor: Hardward	Stand along digaster	HB pressurized digester/refiner, hardwood	AP-42, Ch	lb/ODT	0.00	0.0024	0.0045	0.35	0.0013	0.00004
НВ	30/01456	Digester: Hardwood Digester: Mixed	Stand alone digester	HB pressurized	10.6.4 AP-42, Ch	וט/טטו	0.03	0.0024	0.0045	0.35	0.0012	0.00091
НВ	30701457	Softwood/Hardwood	Stand alone digester	digester/refiner, hardwood	AP-42, Ch 10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0013	0.00091
110	30/0143/	Atmospheric Refiner:	Stariu alone ulgester	FB, atmospheric refiner and	AP-42, Ch	וטוטונייו	0.03	0.0024	0.0045	0.35	0.0012	0.00091
НВ	30701/60	Softwood	Atmospheric refiner	dump chest, softwood	10.6.4	lb/ODT	0.0027	0.0003	0.00061	0.0084		0.00026
יוט	30701400	301tW000	, terriosprierie rennei	aump chest, softwood	120.0.7	וטסועיו	0.0027	0.0003	0.0001	0.0064	i	0.00020

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Atmospheric Refiner:		FB, atmospheric refiner and	AP-42, Ch							
НВ	30701461	Hardwood	Atmospheric refiner	dump chest, softwood	10.6.4	lb/ODT	0.0027	0.0003	0.00061	0.0084		0.00026
		Atmospheric Refiner:		FB, atmospheric refiner and	AP-42, Ch							
HB	30701462	Mixed	Atmospheric refiner	dump chest, softwood	10.6.4	lb/ODT	0.0027	0.0003	0.00061	0.0084		0.00026
		Pressurized Refiner:		HB pressurized	AP-42, Ch							
НВ	30701463	Softwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized Refiner:		HB pressurized	AP-42, Ch							
НВ	30701464	Hardwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized Refiner: Mixed		HB pressurized	AP-42, Ch							
НВ	30701465	Softwood/Hardwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized		HB pressurized	AP-42, Ch							
НВ	30701466	Digester/Refiner: Softwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized		HB pressurized	AP-42, Ch							
НВ	30701467	Digester/Refiner:	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized		up	4 D 4 2 C							
LID	20704460	Digester/Refiner: Mixed		HB pressurized	AP-42, Ch	U. /O.D.T.	0.00	0.0024	0.0045	0.25	0.0043	0.00004
НВ	30/01468	Softwood/Hardwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
				OSB sanderdust metering bin								
				(holds fuel for dryer and	4D 42 Cl							
LID	20704 400	Continuo O continuo	et at litera and a	thermal oil heater suspension	AP-42, Ch	U. /8.46E 2./0						
НВ	30/01480	Sanding Operations	Finishing sander	burners)	10.6.1	lb/MSF 3/8				0.00073		
LID	20704 404	C	et at later and	OSB raw fuel bin (holds fines	AP-42, Ch	U. /8.46E 2./0			0.0000	0.0045		
НВ	30/01481	Sawing Operations	Finishing saw	from screens and saws)	10.6.1	lb/MSF 3/8			0.0003	0.0015		
		Wet Hardboard Former:			AD 42 Ch							
LID	20704405	Vacuum System: Non-	F	UD farmer wat DE resig	AP-42, Ch	II- /ODT	0.0050		0.00006	0.054	0.00074	0.00034
НВ	30/01485	Phenol Formaldehyde Wet Hardboard Former:	Former	HB former, wet, PF resin	10.6.4	lb/ODT	0.0058		0.00026	0.054	0.00071	0.00021
					AD 42 Ch							
НВ	20701496	Vacuum System: Phenol	Former	LID former wet DE resin	AP-42, Ch 10.6.4	lb/ODT	0.0050		0.00026	0.054	0.00071	0.00024
ПВ	30701480	Formaldehyde Resin Dry Process Former	Former	HB former, wet, PF resin	10.6.4	ів/ОВТ	0.0058		0.00026	0.054	0.00071	0.00021
		Operations: Dust										
НВ	20701497	Collection: Phenol	Former		No EF for SCC							
ПВ	30/0146/	Dry Process Former	ronner		NO EF 101 3CC							
		Operations: Dust										
		Collection: Non-Phenol										
НВ	30701488	Formaldehyde Resin	Former		No EF for SCC							
110	30701400	Wet Process Former	Torriter		NO EL TOT SEE							
		Operations: Dust (Fiber)										
		Collection: Phenol										
НВ	30701489	Formaldehyde Resin	Former		No EF for SCC							
	30701.03	Wet Process Former	i orrine.		110 21 101 000							
		Operations: Dust (Fiber)										
		Collection: Non-Phenol										
НВ	30701490	Formaldehyde Resin	Former		No EF for SCC							
		Combined Process Unit										
		Type Dust Collection: Dry										
НВ	30701493	Wood Material	Other		No EF for SCC							
		Combined Process Unit	-									
		Type Dust Collection:										
НВ	30701494	Mixed Dry and Green	Other		No EF for SCC							
		,	-	OSB raw fuel bin (holds fines	AP-42, Ch							
НВ	30701495	Panel Trim Chipper	Panel trim chipper	from screens and saws)	10.6.1	lb/MSF 3/8			0.0003	0.0015		
		Miscellaneous Coating	Miscellaneous	<u>'</u>								
НВ	30701496	Operations	coating operation		No EF for SCC							
L			0 - 1	ı		L	1		1	1	L	1

				Related AP-42 EF to use in								
DOLLED		5001	ICR Process Unit	absense of more					F		5 11	Propion
PCWP	SCC	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
НВ	30701497	Resin Storage Tanks	Resin storage tank		No EF for SCC							
НВ	30701499	Other Not Classified	Other		No EF for SCC							
		Mat Dryer: Indirect-		FB, board dryer, indirect								
		heated: Starch binder:		heated, softwood, starch	AP-42, Ch							
FB	30701513	Softwood	Fiberboard mat dryer	binder (heated zones)	10.6.4	lb/MSF 1/2	0.00097	0.00057	0.0093	0.017	0.0012	0.00069
		Mat Dryer: Indirect-		FB, board dryer, indirect								
		heated: Starch binder:		heated, softwood, starch	AP-42, Ch							
FB	30701514		Fiberboard mat dryer	binder (heated zones)	10.6.4	lb/MSF 1/2	0.00097	0.00057	0.0093	0.017	0.0012	0.00069
		Mat Dryer: Indirect-		FB, board dryer, indirect								
	20704545	heated: Starch binder:	eth a decreation of the co	heated, softwood, starch	AP-42, Ch	U. /b.455.4./2	0.00007	0.00057	0.0000	0.047	0.0043	0.00000
FB	30701515		Fiberboard mat dryer	binder (heated zones)	10.6.4	lb/MSF 1/2	0.00097	0.00057	0.0093	0.017	0.0012	0.00069
		Mat Dryer: Indirect- heated: Asphalt binder:		FB, board dryer, indirect heated, softwood, 6-12%	AP-42, Ch							
FB	20701516	· ·	Eibarbaard mat dryar	asphalt binder (heated zones)	10.6.4	lb/MSF 1/2	0.0029	0.0012	0.013	0.026	0.0014	
ГВ	30701310	Mat Dryer: Indirect-	riberboard mat dryer	FB, board dryer, indirect	10.0.4	ID/IVI3F 1/2	0.0029	0.0012	0.013	0.020	0.0014	
		heated: Asphalt binder:		heated, softwood, 6-12%	AP-42, Ch							
FB	30701517		Fiberhoard mat dryer	asphalt binder (heated zones)	10.6.4	lb/MSF 1/2	0.0029	0.0012	0.013	0.026	0.0014	
1.5	30701317	Mat Dryer: Indirect-	riberboard mat dryer	FB, board dryer, indirect	10.0.4	15/11/51 1/2	0.0023	0.0012	0.013	0.020	0.0014	
		heated: Asphalt binder:		heated, softwood, 6-12%	AP-42, Ch							
FB	30701518	· ·	Fiberboard mat dryer	asphalt binder (heated zones)	10.6.4	lb/MSF 1/2	0.0029	0.0012	0.013	0.026	0.0014	
	-			FB, board dryer, indirect		,						
		Mat Dryer: Direct-heated:		heated, softwood, starch	AP-42, Ch							
FB	30701519	Starch binder: Softwood	Fiberboard mat dryer	binder (heated zones)	10.6.4	lb/MSF 1/2	0.00097	0.00057	0.0093	0.017	0.0012	0.00069
				FB, board dryer, indirect								
		Mat Dryer: Direct-heated:		heated, softwood, starch	AP-42, Ch							
FB	30701520	Starch binder: Hardwood	Fiberboard mat dryer	binder (heated zones)	10.6.4	lb/MSF 1/2	0.00097	0.00057	0.0093	0.017	0.0012	0.00069
		Mat Dryer: Direct-heated:		FB, board dryer, indirect								
		Starch binder: Mixed		heated, softwood, starch	AP-42, Ch							
FB	30701521	Softwood/Hardwood	Fiberboard mat dryer	binder (heated zones)	10.6.4	lb/MSF 1/2	0.00097	0.00057	0.0093	0.017	0.0012	0.00069
				FB, board dryer, indirect								
		Mat Dryer: Direct-heated:		heated, softwood, 6-12%	AP-42, Ch							
FB	30701522	Asphalt binder: Softwood	Fiberboard mat dryer	asphalt binder (heated zones)	10.6.4	lb/MSF 1/2	0.0029	0.0012	0.013	0.026	0.0014	
				FB, board dryer, indirect								
		Mat Dryer: Direct-heated:		heated, softwood, 6-12%	AP-42, Ch							
FB	30/01523		riperpoard mat dryer	asphalt binder (heated zones) FB, board dryer, indirect	10.6.4	lb/MSF 1/2	0.0029	0.0012	0.013	0.026	0.0014	
		Mat Dryer: Direct-heated: Asphalt binder: Mixed		heated, softwood, 6-12%	AP-42, Ch							
FB	20701524	'	Eiberboard mat dryer	asphalt binder (heated zones)	10.6.4	lb/MSF 1/2	0.0029	0.0012	0.013	0.026	0.0014	
10	30701324	Atmospheric Refiner:	riberboard mat dryer	FB, atmospheric refiner and	AP-42, Ch	15/14151 1/2	0.0023	0.0012	0.013	0.020	0.0014	
FB	30701528	Hardwood	Atmospheric refiner	dump chest, softwood	10.6.4	lb/ODT	0.0027	0.0003	0.00061	0.0084		0.00026
1.5	30701320	Atmospheric Refiner:	remospheric remier	FB, atmospheric refiner and	AP-42, Ch	15/051	0.0027	0.0003	0.00001	0.0004		0.00020
FB	30701529	1	Atmospheric refiner	dump chest, softwood	10.6.4	lb/ODT	0.0027	0.0003	0.00061	0.0084		0.00026
		Atmospheric Refiner:		FB, atmospheric refiner and	AP-42, Ch	., -						
FB	30701530	Softwood	Atmospheric refiner	dump chest, softwood	10.6.4	lb/ODT	0.0027	0.0003	0.00061	0.0084		0.00026
		Pressurized Refiner:		HB pressurized	AP-42, Ch							
FB	30701531	Softwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized Refiner:		HB pressurized	AP-42, Ch							
FB	30701532	Hardwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized Refiner: Mixed		HB pressurized	AP-42, Ch		<u> </u>			_		
FB	30701533	Softwood/Hardwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
FB	30701534	Digester: Softwood	Stand alone digester		No EF for SCC		1					

					1					1		
				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
				HB pressurized	AP-42, Ch							
FB	30701535	Digester: Hardwood	Stand alone digester	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Digester: Mixed		HB pressurized	AP-42, Ch							
FB	30701536	Softwood/Hardwood	Stand alone digester	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized		HB pressurized	AP-42, Ch							
FB	30701537	Digester/Refiner: Softwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized		HB pressurized	AP-42, Ch							
FB	30701538	Digester/Refiner:	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
		Pressurized										
		Digester/Refiner: Mixed		HB pressurized	AP-42, Ch							
FB	30701539	Softwood/Hardwood	Pressurized refiner	digester/refiner, hardwood	10.6.4	lb/ODT	0.03	0.0024	0.0045	0.35	0.0012	0.00091
					AP-42, Ch							
FB	30701540	Fiber Washer: Softwood	Fiber washer	FB, washer, softwood	10.6.4	lb/ODT	0.015		0.0026	0.13		
		=:1 1 1			AP-42, Ch							
FB	30/01541	Fiber Washer: Hardwood	Fiber washer	FB, washer, softwood	10.6.4	lb/ODT	0.015		0.0026	0.13		
		Fiber Washer: Mixed			AP-42, Ch							
FB	30/01542	Softwood/Hardwood	Fiber washer	FB, washer, softwood	10.6.4	lb/ODT	0.015		0.0026	0.13		
ED.	20704554	Wet Fiberboard Former:	F =	ED former 6.130/	AP-42, Ch	II- /NACE 4 /2	0.0075		0.0026	0.014		
FB	30/01551	Vacuum: All Binder	Former	FB, former, wet, 6-12% asphalt		lb/MSF 1/2	0.0075		0.0036	0.014		
rp.	20701561	Danal Trim Chinner	Danal trim chinner	OSB raw fuel bin (holds fines from screens and saws)	AP-42, Ch 10.6.1	IP /V4CE 3 /0			0.0003	0.0015		
FB	30701301	Panel Trim Chipper	Panel trim chipper	OSB raw fuel bin (holds fines	AP-42, Ch	lb/MSF 3/8			0.0003	0.0015		
FB	20701562	Sawing Operations	Finishing saw	,	10.6.1	IP /V4CE 3 /0			0.0003	0.0015		
ГВ	30701302	Combined Process Unit	Finishing saw	from screens and saws)	10.0.1	lb/MSF 3/8			0.0003	0.0013	1	
		Type Dust Collection: Dry										
FB	30701567	Wood Material	Other		No EF for SCC							
-	30701307	Combined Process Unit	Other		140 E1 101 500							
		Type Dust Collection:										
FB	30701568	Mixed Dry and Green	Other		No EF for SCC							
	30701300	Miscellaneous Coating	Miscellaneous		110 21 101 000							
FB	30701591	Operations	coating operation		No EF for SCC							
			у съти									
FB	30701592	Resin Storage Tanks	Resin storage tank		No EF for SCC							
FB	30701599	Other Not Classified	Other		No EF for SCC							
		Hardwood Veneer Dryer:										
		Indirect-heated: Heated	Hardwood veneer	HPW, veneer, indirect heated,								
LVL	30701601	Zones	dryer	hardwood (heated zones)	AP-42, Ch 10.5	lb/MSF 3/8	0.0043		0.0011	0.041	0.003	
		Hardwood Veneer Dryer:										
		Indirect-heated: Cooling	Hardwood veneer	HPW, veneer, indirect heated,								
LVL	30701602	Section	dryer	hardwood (cooling section)	AP-42, Ch 10.5	lb/MSF 3/8	0.032		0.0065	0.021		
		Softwood Veneer Dryer:										
		Indirect-heated: Heated	Softwood veneer	SPW, veneer, indirect heated,	AP-42, Ch							
LVL	30701603		dryer	softwood (heated zones)	10.5	lb/MSF 3/8	0.017	0.0013	0.014	0.039	0.0034	0.0024
		Softwood Veneer Dryer:										
		Indirect-heated: Cooling	Softwood veneer	SPW, veneer, indirect heated,	AP-42, Ch							
LVL	30701604		dryer	softwood (cooling section)	10.5	lb/MSF 3/8	0.0046		0.0013	0.01	0.0062	
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-								
			Hardwood veneer	fired, hardwood (heated	AP-42, Ch							
LVL	30701605		dryer	zones)	10.5	lb/MSF 3/8	0.0052		0.0025	0.0095		ļ
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-	AP-42, CH							
l.,,,		Direct Wood-fired: Cooling		fired, hardwood (cooling	10.5 (All EF							
LVL	30701606	Section	dryer	section)	BDL)						l	

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Softwood Veneer Dryer:										
		Direct Wood-fired: Heated	Softwood veneer	SPW, veneer, direct wood-	AP-42, Ch							
LVL	30701607	Zones	dryer	fired, softwood (heated zones)	10.5	lb/MSF 3/8			0.045			
		Softwood Veneer Dryer:		SPW, veneer, direct natural								
		Direct Wood-fired: Cooling	Softwood veneer	gas-fired, softwood (cooling	AP-42, Ch							
LVL	30701608	Section	dryer	section)	10.5	lb/MSF 3/8	0.0034		0.0015	0.0057	0.01	
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-								
		Direct Natural Gas-fired:	Hardwood veneer	fired, hardwood (heated	AP-42, Ch							
LVL	30701609	Heated Zones	dryer	zones)	10.5	lb/MSF 3/8	0.0052		0.0025	0.0095		
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-	AP-42, CH							
		Direct Natural Gas-fired:	Hardwood veneer	fired, hardwood (cooling	10.5 (All EF							
LVL	30701610	Cooling Section	dryer	section)	BDL)							
		Softwood Veneer Dryer:		SPW, veneer, direct natural								
		Direct Natural Gas-fired:	Softwood veneer	gas-fired, softwood (heated	AP-42, Ch							
LVL	30701611	Heated Zones	dryer	zones)	10.5	lb/MSF 3/8	0.062	0.009	0.064	0.036	0.006	0.0016
		Press: Phenol	Engineered wood		AP-42, Ch							
LVL	30701612	Formaldehyde Resin	products press	LVL, press, PF resin	10.9	lb/MCF	0.29		0.29	3.1		0.24
		Softwood Veneer Dryer:	producto proce	SPW, veneer, direct natural		,						0.21
		Direct Natural Gas-fired:	Softwood veneer	gas-fired, softwood (cooling	AP-42, Ch							
LVL	30701613	Cooling Section	dryer	section)	10.5	lb/MSF 3/8	0.0034		0.0015	0.0057	0.01	
LVL	30701013	Press: Non-Phenol	Engineered wood	3cction)	AP-42, Ch	10/14/31 3/0	0.0034		0.0013	0.0037	0.01	
LVL	20701614	Formaldehyde Resin	products press	LSL Hot press, MDI resin	10.9	lb/MCF			0.029			
LVL	30701014	Veneer Redryer: Radio	products press	LSE Flot press, Wild resili	10.9	ID/IVICI			0.023			
		Frequency-heated:		SPW, veneer, RF heated,	AP-42, Ch							
1371	20701615	Softwood	Voncor rodmor	softwood	10.5	lb/MSF 3/8	0.0015		0.00035	0.0027		
LVL	30/01013	Veneer Redryer: Radio	Veneer redryer	sortwood	10.5	ID/IVISF 3/8	0.0015		0.00033	0.0027		
		-		CDVA	AD 42 Ch							
	20704646	Frequency-heated:		SPW, veneer, RF heated,	AP-42, Ch	U. /b.455.3/6	0.0045		0.00035	0.0027		
LVL	30/01616	Hardwood	Veneer redryer	softwood	10.5	lb/MSF 3/8	0.0015		0.00035	0.0027		
		Veneer Redryer: Non-RF										
LVL	30701617	Heat: Softwood	Veneer redryer		No EF for SCC							
		Veneer Redryer: Non-RF										
LVL	30701618	Heat: Hardwood	Veneer redryer		No EF for SCC							
				OSB sanderdust metering bin								
				(holds fuel for dryer and								
				thermal oil heater suspension								
LVL	30701619	Sanding Operations	Finishing sander	burners)	10.6.1	lb/MSF 3/8				0.00073		
		Hammermill/Chipper: Dry			AP-42, Ch							
LVL	30701623	Wood Material	Panel trim chipper	No EF for SCC	10.9	lb/MLF						
		Hammermill/Chipper:										
		Mixed Green and Dry			AP-42, Ch							
LVL	30701624	Wood Material	Panel trim chipper	No EF for SCC	10.9	lb/MLF						
		Sawing Operations: Dry										
		Veneer and Laminated										
		Veneer Lumber (LVL)			AP-42, Ch							
LVL	30701627	Trimming	Finishing saw	No EF for SCC	10.9	lb/MLF						
		Ŭ	Ü	SPW log steaming vat (process		,						
				rate = volume of wood	AP-42, Ch							
LVL	30701628	Log Steaming Vat	Log vat	removed from vat per hour)	10.5	lb/MSF 3/8	0.0047			0.0073		
	33701028	205 Steaming Vat		. coved irom vac per nour)	10.0	.2/14131 3/0	0.0047		+	0.0073		
LVL	30701620	Resin Storage Tanks	Resin storage tank		No EF for SCC				1	1		
LVL	30701029	Combined Process Unit	Nesin storage talk		140 LI 101 3CC	<u> </u>				1		
		Type Dust Collection: Dry			AP-42, Ch				1	1		
11/1	20701622	Wood Material	Other	No EF for SCC	10.9	lb/MLF						
LVL	30/01033	vvoou iviaterial	Other	INO EF IOI SCC	10.5	IN/IVILF	l	l	I .	l	l	

				Related AP-42 EF to use in		EF units Acetaldehyde Acrolein Formaldehyde Methanol Phe						
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Combined Process Unit										
		Type Dust Collection:			AP-42, Ch							
.VL	30701634	Mixed Dry and Green	Other	No EF for SCC	10.9	lb/MLF	_					
\ //	20701625	Miscellaneous Coating	Miscellaneous		Na FE fau CCC							
.VL	30/01635	Operations	coating operation		No EF for SCC						-	
.VL	30701639	Other Not Classified	Other		No EF for SCC							
	30701033	Other Not classified	Engineered wood		AP-42, Ch							
joist	30701670	Curing Chamber	products press	I-Joist curing chamber	10.9	lb/MLF			0.00018	0.00063		
			p. 22222	, and the same of		,				0.0000		
oist	30701671	Resin Storage Tanks	Resin storage tank		No EF for SCC							
		, and the second	Ĭ		AP-42, Ch							
oist	30701672	Sawing Operations	Finishing saw	LVL, I-Beam Saw	10.9	lb/MLF				0.016		
oist	30701679	Other Not Classified	Other		No EF for SCC							
		Press/Curing Chamber:								<u> </u>		
		Phenol-Resorcinol-	Engineered wood									
SLULAM	30701680	Formaldehyde (PRF) resin	products press		No EF for SCC							
		Press/Curing Chamber:										
	20704504	Non-Phenol-Resorcinol-	Engineered wood		N . FF (666							
LULAM	30701681	Formaldehyde (PRF) Resin	products press		No EF for SCC							
SLULAM	20701692	Resin Storage Tanks	Resin storage tank		No EF for SCC							
JLULAIVI	30701082	nesiii storage ranks	Resili Storage talik		NO EF 101 3CC							
SLULAM	30701683	Chinners	Other		No EF for SCC							
3202/111	30701003	Спррего	Other		140 E1 101 300							
GLULAM	30701684	Sanding Operations	Finishing sander		No EF for SCC							
		0 - 1 - 1 - 1	0									
SLULAM	30701685	Sawing Operations	Finishing saw		No EF for SCC							
SLULAM	30701689	Other Not Classified	Other		No EF for SCC							
		Rotary Strand Dryer: Direct		LSL, rotary, direct wood-fired,	AP-42, Ch							
SL	30701701	Wood-fired: Hardwood	Rotary strand dryer	hardwood	10.9	lb/ODT		0.0062	0.096			
		Rotary Strand Dryer: Direct		OSB, rotary, direct wood-fired,								
SL	30701702	Wood-fired: Softwood	Rotary strand dryer	softwood	10.9	lb/ODT		0.0062	0.096			
		Rotary Strand Dryer: Direct	1	OCD material discrete and Co. 1	AD 42 C							
CI	20701702	Wood-fired: Mixed	Potany strand days	OSB, rotary, direct wood-fired,	AP-42, Ch 10.9	lb/ODT		0.000	0.000			
SL	30/01/03	Softwood/Hardwood Rotary Strand Dryer: Direct	Rotary strand dryer	softwood OSB, rotary, direct wood-fired,		וטט/מו	-	0.0062	0.096		 	
SL	30701704	Natural Gas-fired:	Rotary strand dryer	osb, rotary, direct wood-fired, softwood	AP-42, Ch 10.9	lb/ODT		0.0062	0.096			
<i>,</i> ,	30/01/04	Rotary Strand Dryer: Direct	notary stranu uryer	30100000	10.5	13/001	+	0.0062	0.096	+	 	
		Natural Gas-fired:	1	OSB, rotary, direct natural gas-	AP-42, Ch							
SL	30701705	Hardwood	Rotary strand dryer	fired, hardwood	10.9	lb/ODT		0.0062	0.096			
	1	Rotary Strand Dryer: Direct	, , , , , ,			†		3.3001	1.000	İ		
		Natural Gas-fired: Mixed		OSB, rotary, direct natural gas-	AP-42, Ch							
SL	30701706	Softwood/Hardwood	Rotary strand dryer	fired, hardwood	10.9	lb/ODT		0.0062	0.096	<u> </u>		
		Rotary Strand Dryer:	1	OSB, rotary, direct wood-fired,								
SL	30701707	Indirect-heated: Softwood	Rotary strand dryer	softwood	10.9	lb/ODT		0.0062	0.096			
		Rotary Strand Dryer:		OSB, rotary, indirect-heated,	AP-42, Ch					<u> </u>		
SL	30701708	Indirect-heated: Hardwood	Rotary strand dryer	hardwood	10.9	lb/ODT		0.0062	0.096			
		Rotary Strand Dryer:	1		l							
		Indirect-heated: Mixed	L	OSB, rotary, indirect-heated,	AP-42, Ch	u /o						
SL	30701709	Softwood/Hardwood	Rotary strand dryer	hardwood	10.9	lb/ODT		0.0062	0.096	l		

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
				OSB, conveyor, indirect	AP-42, Ch							
		Conveyor Dryer: Heated	Conveyor strand	heated, hardwood (heated	10.9 (All EF							
LSL	30701710	Zones: Hardwood	dryer	zones)	BDL)							
					AP-42, Ch							
		Conveyor Dryer: Heated	Conveyor strand	LSL conveyor dryer, indirect-	10.9 (All EF							
LSL	30701711	Zones: Softwood	dryer	heated, hardwood	BDL)							
		Conveyor Dryer: Heated	. , .		AP-42, Ch							
		Zones: Mixed	Conveyor strand	LSL conveyor dryer, indirect-	10.9 (All EF							
LSL	30701712	Hardwood/Softwood	dryer	heated, hardwood	BDL)							
LJL	30701712	Trai awoody sortwood	uryer	neatea, narawood	AP-42, Ch			+				
		Conveyor Dryer: Unheated	Convoyor strand	LSL conveyor dryer, indirect-	10.9 (All EF							
CI	20701712	, ,	, , , , , , , , , , , , , , , , , , ,	' '	,							
.SL	30/01/13	Zones: All Species	dryer	heated, hardwood	BDL)			1				
		Press: Methylene Diphenyl										
		Diisocyanate (MDI)	Engineered wood		AP-42, Ch	/2.45=		1				
LSL	30701720	Adhesive	products press	LSL Hot press, MDI resin	10.9	lb/MCF	1	_	0.029			1
		Press: Non-Methylene										
		Diphenyl Diisocyanate	Engineered wood		AP-42, Ch							
LSL	30701721	(MDI) Adhesive	products press	LVL, LVL Hot press, PF resin	10.9							
		Blender: Methylene										
		Diphenyl Diisocyanate			AP-42, Ch							
_SL	30701722	(MDI) Adhesive	Blender	OSB blender (PF & MDI resin)	10.6.1	lb/MSF 3/8			0.0036	0.063	:	
		Blender: Non-Methylene										
		Diphenyl Diisocyanate			AP-42, Ch							
.SL	30701723	(MDI) Adhesive	Blender	OSB blender (PF & MDI resin)	10.6.1	lb/MSF 3/8			0.0036	0.063		
	30701713	Former Operations:	Dicinaci.	ood diender (i.e. dienderiesin)	20.012	.5, 5, 6			0.0030	0.003	1	
		Methylene Diphenyl										
		Diisocyanate (MDI)										
LSL	20701724	Adhesive	Former		No EF for SCC							
LSL	30/01/24	Former Operations: Non-	Former	_	NO EF IOI SCC						 	
		•										
		Methylene Diphenyl										
		Diisocyanate (MDI)	_									
LSL	30701725	Adhesive	Former		No EF for SCC							
				OSB sanderdust metering bin								
				(holds fuel for dryer and								
				thermal oil heater suspension								
LSL	30701730	Sanding Operations	Finishing sander	burners)	10.6.1	lb/MSF 3/8				0.00073		
					AP-42, Ch							
LSL	30701731	Sawing Operations	Finishing saw	No EF for SCC	10.9	lb/MLF						
		Hammermill/Chipper: Dry			AP-42, Ch							
LSL	30701735	Wood Material	Panel trim chipper	No EF for SCC	10.9	lb/MLF						
		Hammermill/Chipper:				-						
		Mixed Green and Dry			AP-42, Ch							
LSL	30701736	Wood Material	Panel trim chipper	No EF for SCC	10.9	lb/MLF						
	30.01730		cppci	112 21 101 000		,		+				
_SL	30701727	Resin Storage Tanks	Resin storage tank		No EF for SCC			1				
-JL	30/01/3/	nesiii storage Taliks	Resin storage tank	1	INO LI IOI SCC		+	1	+	 		
CI	20701720	Other Not Classified	Othor		No FF for CCC			1				
.SL	30/01/39		Other		No EF for SCC		1	+		1		
		Hardwood Veneer Dryer:	l					1				
		Indirect-heated: Heated	Hardwood veneer	HPW, veneer, indirect heated,	AP-42, Ch			.1				
PSL	30701740		dryer	hardwood (heated zones)	10.5	lb/MSF 3/8	0.0043	3	0.0011	0.041	0.003	3
		Hardwood Veneer Dryer:						1				
	1	Indirect-heated: Cooling	Hardwood veneer	HPW, veneer, indirect heated,			1	1		1		
PSL	30701741	Section	dryer	hardwood (cooling section)	10.5	lb/MSF 3/8	0.032	2	0.0065	0.021	.[1

				Related AP-42 EF to use in								
			ICR Process Unit	absense of more								Propion
PCWP	scc	SCC Level Four	Туре	represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	aldehyde
		Softwood Veneer Dryer:										
		Indirect-heated: Heated	Softwood veneer	SPW, veneer, indirect heated,	AP-42, Ch							
PSL	30701742		dryer	softwood (heated zones)	10.5	lb/MSF 3/8	0.017	0.0013	0.014	0.039	0.0034	0.0024
		Softwood Veneer Dryer:										
		Indirect-heated: Cooling	Softwood veneer	SPW, veneer, indirect heated,	AP-42, Ch							
PSL	30701743		dryer	softwood (cooling section)	10.5	lb/MSF 3/8	0.0046		0.0013	0.01	0.0062	
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-								
		Direct Wood-fired: Heated	Hardwood veneer	fired, hardwood (heated	AP-42, Ch							
PSL	30701744		dryer	zones)	10.5	lb/MSF 3/8	0.0052		0.0025	0.0095		
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-	AP-42, CH							
		Direct Wood-fired: Cooling		fired, hardwood (cooling	10.5 (All EF							
PSL	30701745		dryer	section)	BDL)							
		Softwood Veneer Dryer:										
			Softwood veneer	SPW, veneer, direct wood-	AP-42, Ch							
PSL	30701746		dryer	fired, softwood (heated zones)	10.5	lb/MSF 3/8			0.045			
		Softwood Veneer Dryer:		SPW, veneer, direct natural								
		Direct Wood-fired: Cooling		gas-fired, softwood (cooling	AP-42, Ch							
PSL	30701747		dryer	section)	10.5	lb/MSF 3/8	0.0034		0.0015	0.0057	0.01	
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-								
		Direct Natural Gas-fired:	Hardwood veneer	fired, hardwood (heated	AP-42, Ch							
PSL	30701748	Heated Zones	dryer	zones)	10.5	lb/MSF 3/8	0.0052		0.0025	0.0095		
		Hardwood Veneer Dryer:		HPW, veneer, direct wood-	AP-42, CH							
		Direct Natural Gas-fired:	Hardwood veneer	fired, hardwood (cooling	10.5 (All EF							
PSL	30701749	Cooling Section	dryer	section)	BDL)							
		Softwood Veneer Dryer:		SPW, veneer, direct natural								
		Direct Natural Gas-fired:	Softwood veneer	gas-fired, softwood (heated	AP-42, Ch							
PSL	30701750	Heated Zones	dryer	zones)	10.5	lb/MSF 3/8	0.062	0.009	0.064	0.036	0.006	0.0016
		Softwood Veneer Dryer:		SPW, veneer, direct natural								
		Direct Natural Gas-fired:	Softwood veneer	gas-fired, softwood (cooling	AP-42, Ch							
PSL	30701751	Cooling Section	dryer	section)	10.5	lb/MSF 3/8	0.0034		0.0015	0.0057	0.01	
		Veneer Redryer: Radio										
		Frequency-heated:		SPW, veneer, RF heated,	AP-42, Ch							
PSL	30701752	Hardwood	Veneer redryer	softwood	10.5	lb/MSF 3/8	0.0015		0.00035	0.0027		
		Veneer Redryer: Radio										
		Frequency-heated:		SPW, veneer, RF heated,	AP-42, Ch							
PSL	30701753	Softwood	Veneer redryer	softwood	10.5	lb/MSF 3/8	0.0015		0.00035	0.0027		
		Veneer Redryer: Other:										
PSL	30701754	Hardwood	Veneer redryer		No EF for SCC							
		Veneer Redryer: Other:										
PSL	30701755	Softwood	Veneer redryer		No EF for SCC							
		Press: Phenol	Engineered wood		AP-42, Ch							
PSL	30701760	Formaldehyde Resin	products press	LVL, press, PF resin	10.9	lb/MCF	0.29		0.29	3.1		0.24
		Press: Non-Phenol	Engineered wood		AP-42, Ch							
PSL	30701761	Formaldehyde Resin	products press	LSL Hot press, MDI resin	10.9	lb/MCF			0.029			
				SPW dry trim chipper (chips								
				dry trim from SPW panel saws;								
		Hammermill/Chipper: Dry		process rate = finished board	AP-42, Ch							
PSL	30701765	Wood Material	Panel trim chipper	production)	10.5	lb/MSF 3/8				0.0078		
				SPW dry trim chipper (chips	-	1						
		Hammermill/Chipper:		dry trim from SPW panel saws;								
		Mixed Green and Dry	1	process rate = finished board	AP-42, Ch							
PSL	30701766	Wood Material	Panel trim chipper	production)	10.5	lb/MSF 3/8				0.0078		
	30,32,00		cppci	F	1	, 5/0	1		l	5.5076		1

PCWP	scc	SCC Level Four	ICR Process Unit	Related AP-42 EF to use in absense of more represetnative data	EF source	EF units	Acetaldehyde	Acrolein	Formaldehyde	Methanol	Phenol	Propion aldehyde
				OSB sanderdust metering bin								
				(holds fuel for dryer and								
				thermal oil heater suspension								
PSL	30701767	Sanding Operations	Finishing sander	burners)	10.6.1	lb/MSF 3/8				0.00073		
		Sawing Operations: Dry Veneer and Parallel Strand			AP-42, Ch							
PSL	30701769	Lumber (PSL) Trimming	Finishing saw	No EF for SCC	10.9	lb/MLF						
		Combined Process Unit Type Dust Collection: Dry			AP-42, Ch							
PSL	30701772	Wood Material	Other	No EF for SCC	10.9	lb/MLF						
		Combined Process Unit										
		Type Dust Collection:			AP-42, Ch							
PSL	30701773	Mixed Dry and Green	Other	No EF for SCC	10.9	lb/MLF						
				SPW log steaming vat (process rate = volume of wood	AP-42, Ch							
PSL	30701774	Log Steaming Vat	Log vat	removed from vat per hour)	10.5	lb/MSF 3/8	0.0047			0.0073		
PSL	30701776	Resin Storage Tanks	Resin storage tank		No EF for SCC							
		Miscellaneous Coating	Miscellaneous									
PSL	30701777	Operations	coating operation		No EF for SCC							
PSL	30701779	Other Not Classified	Other		No EF for SCC							

Notes:

Blanks in pollutant columns indicate there is no emission for the pollutant, either because no emission factor exists or because the emission factor was based on all below-detection limit (BDL) data.

These will be labeled "No EF for pollutant" in the PCWP ICR provisional calculations.

Xylenes include the sum of the m,p-xlyene and o-xylene. Cresols include the sum of the m,p-cresol and o-cresol.

Compounds with alias: 1,1,1-Trichloroethane (methyl chloroform), Bromomethane (methyl bromide), Chloroethane (Ethyl chloride), Chloromethane (methyl chloride), MIBK (4-Methyl-2-Pentanone)

Appendix E. Numerical Emission Factors Included in

Appendix	E. Numerical E	mission Factors Included in	1												
PCWP	scc	SCC Level Four	1,1,1- Trichloro ethane	Aceto phenone	Benzene	Biphenyl	Bis-(2- ethylhexyl phthalate)	Bromo methane	Carbon disulfide	Carbon tetra	Chloro ethane	Chloroform	Chloro methane	Cumene	Di-N-butyl phthalate
		Dry Rotary Dryer: Indirect-													
		heated: <600F Inlet air,													
PB	30700635	<30%MC: Softwood													
		Dry Rotary Dryer: Indirect-													
		heated: <600F Inlet air,													
PB	30700636	<30%MC: Hardwood													
		Dry Rotary Dryer: Indirect-													
		heated: <600F Inlet air,													
		<30%MC: Mixed													
PB	30700637	Softwood/Hardwood													
		Former Operations: Urea													
PB	30700641	Formaldehyde Resin													
		Former Operations: Non-													
PB	30700642	Urea Formaldehyde Resin			1				1						<u> </u>
		Blender: Urea													
PB	30700648	Formaldehyde Resin			1				1						<u> </u>
		Blender: Non-Urea													
PB	30700649	Formaldehyde Resin			1				1						<u> </u>
		Reconstituted Wood													
		Products Press: Batch: Urea													
PB	30700651	Formaldehyde Resin			0.003										
		Reconstituted Wood													
		Products Press:													
PB	30700652	Continuous: Urea			0.003										
		Reconstituted Wood													
		Products Press:													
		Continuous: Non-Urea													
PB	30700653	Formaldehyde Resin			0.003				1						+
		Reconstituted Wood													
DD.	2070005.4	Products Press: Batch: Non-			0.003										
РВ	30700654	Urea Formaldehyde Resin Agriculture Fiber Board		+	0.003				-		-		+		+
DD.	30700656														
РВ	30700030	riess													+
РВ	20700657	Flaker: Hardwood													
гъ	30700037	Haker. Haruwood			+	1			+						+
РВ	30700658	Flaker: Softwood													
	30700030	Board Cooler: Non-Urea			1										+
РВ	30700660	Formaldehyde Resin													
1.0	30700000	Board Cooler: Urea		+	+								-		+
РВ	30700661	Formaldehyde Resin													
<u> </u>	33700001	Refiner: Green Wood			1		+		†				+	1	+
РВ	30700662	Material: Hardwood							1						1
-	33733302	Refiner: Dry Wood							1						+
РВ	30700663	Materials							1						1
	33700003	Refiner: Green Wood	1		1		1	1	†						<u> </u>
РВ	30700664	Material: Softwood													
1.2	33733304				†				1				†		†
РВ	30700665	Sanding Operations							1						1
<u> </u>	11,00000	Refiner: Mixed Dry and	1		1		1	1	†						<u> </u>
РВ	30700666	Green Wood Material							1						1
				1	1	l	1	ı	1	1	l	1	1	1	

	1				1			1	1	1	1			1	
			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane		Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Sanding Operations: Urea													
PB	30700667	Formaldehyde Resin													
		Sanding Operations: Non-													
PB	30700668	Urea Formaldehyde Resin													
		Dry Rotary Dryer: Direct													
	20700670	Wood-fired: <600F Inlet													
РВ	30700670	air, <30%MC: Hardwood	0.000012	0.000064	0.00099	0.000039	0.00032	0.000028	0.000018	0.000012			0.00011	0.000069	0.000023
		Dry Rotary Dryer: Direct Wood-fired: <600F Inlet													
PB	30700671	air, <30%MC: Softwood	0.000012	0.000064	0.00099	0.000039	0.00032	0.000028	0.000018	0.000012			0.00011	0.000069	0.000023
го	30700071	Dry Rotary Dryer: Direct	0.000012	0.000004	0.00099	0.000039	0.00032	0.000028	0.000018	0.000012			0.00011	0.000003	0.000023
		Wood-fired: <600F Inlet													
		air, <30%MC: Mixed													
РВ	30700672	Softwood/Hardwood	0.000012	0.000064	0.00099	0.000039	0.00032	0.000028	0.000018	0.000012			0.00011	0.000069	0.000023
		Dry Rotary Dryer: Direct													
		Natural Gas-fired: <600F													
		Inlet air, <30%MC:													
PB	30700673	Hardwood													
		Dry Rotary Dryer: Direct													
		Natural Gas-fired: <600F													
		Inlet air, <30%MC:													
PB	30700674	Softwood													
		Dry Rotary Dryer: Direct													
		Natural Gas-fired: <600F													
	20700675	Inlet air, <30%MC: Mixed													
РВ	30/006/5	Softwood/Hardwood													
		Green Rotary Dryer: Direct													
РВ	30700676	Wood-fired: Hardwood			0.0047										
		Green Rotary Dryer: Direct													
РВ	30700677	Wood-fired: Softwood			0.0076							0.0001		0.002	
		Green Rotary Dryer: Direct													
		Wood-fired: Mixed													
PB	30700678	Softwood/Hardwood			0.0047										
		Green Rotary Dryer: Direct													
		Natural Gas-fired:													
PB	30700679	Hardwood													
l _{DD}	20700000	Green Rotary Dryer: Direct]							
РВ	30/00680	Natural Gas-fired:	 						1						
		Green Rotary Dryer: Direct Natural Gas-fired: Mixed]	1						
РВ	30700601	Softwood/Hardwood													
r'D	30/0081	SOLLWOOU/ HATUWOOU	+		-			-	1						+
		Green Rotary Dryer:]	1						
РВ	30700682	Indirect-heated: Hardwood]	1						
	2270002		1						1						1
		Green Rotary Dryer:]	1						
РВ	30700683	Indirect-heated: Softwood													
		Green Rotary Dryer:			İ			İ		İ					
1		Indirect-heated: Mixed													
РВ	30700684	Softwood/Hardwood			<u> </u>			<u> </u>	<u> </u>				<u> </u>		

															1
			1,1,1-				Bis-(2-								
			Trichloro	Aceto	_	L	ethylhexyl	Bromo	Carbon	Carbon tetra			Chloro		Di-N-butyl
PCWP	SCC	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
РВ	30700685	Agriculture Fiber Rotary													
гь	30700083	Dryei						+				1			+
		Panel Trim													
РВ	30700686	Hammermill/Chipper													
		Sawing Operations: Pre-													
		Press: Urea Formaldehyde													
PB	30700687	Resin													
		Sawing Operations: Pre-													
		Press: Non-Urea													
PB	30700688	Formaldehyde Resin													
		Sawing Operations: Post-													
	20700600	Press: Pre-Board Cooler:													
PB	30700689	Urea Formaldehyde Resin													
	1	Sawing Operations: Post- Press: Pre-Board Cooler:						1							
		Non-Urea Formaldehyde													
РВ	30700690														
	30700030	Sawing Operations: Post-													+
		Board Cooler: Urea													
РВ	30700691	Formaldehyde Resin													
		Sawing Operations: Post-													
		Board Cooler: Non-Urea													
PB	30700692	Formaldehyde Resin													
		Combined Process Unit													
		Type Dust Collection: Dry													
PB	30700695	Wood Material													
		Combined Process Unit													
		Type Dust Collection:													
PB	30700696	Mixed Dry and Green													<u> </u>
20	20700607	Desir Community of													
РВ	30700697	Resin Storage Tanks		+				-				1	+		
РВ	20700608	Miscellaneous Coating													
РВ	30700098	Operations		+				+				+	+	1	+
РВ	30700699	Other Not Classified													
1.5	30700033	Other Not classified													+
plywood	30700702	Sanding Operations													
, , , , , ,		Sawing Operations: Dry													
		Veneer and Plywood													
plywood	30700710	Trimming													
		Veneer Redryer: Steam-													
plywood	30700720														
		Veneer Laying and Glue													
plywood	30700727	Spreading													
	1							1							
1.								1							
plywood	30700731	Log Steaming Vat			ļ			+	1	-		1			+
	20700700	Davin Channer Tools													
plywood	30700732	Resin Storage Tanks	1			1		+	1			1			+
		Hardwood Veneer Dryer: Direct Wood-fired: Heated													
plywood	30700734							1							
prywood	30/00/34	1201163	1	1	1	1	1	ı	1	1	l	1	1	1	

	1			1	1						I	1		1	1
			111				Bis-(2-								
			1,1,1- Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Hardwood Veneer Dryer:		P			į.								ļ.
		Direct Wood-fired: Cooling													
plywood	30700735														
p.,		Softwood Veneer Dryer:													
		Direct Wood-fired: Heated													
plywood	30700736														
p.,,	30700700	Softwood Veneer Dryer:													
		Direct Wood-fired: Cooling													
plywood	30700737														
prywood	30700737	Softwood Veneer Dryer:													
		Direct Natural Gas-fired:													
plywood	20700752	Heated Zones			0.0057										
prywood	30700732	Softwood Veneer Dryer:			0.0037							1			
		Direct Natural Gas-fired:													
plywood	20700752	Cooling Section													
prywood	30700733	Hardwood Veneer Dryer:												+	
		Direct Natural Gas-fired:													
nhuunad	20700754	Heated Zones													
plywood	30700754			-	+	-	-	_	-	_		-	+	+	-
		Hardwood Veneer Dryer:													
	20700755	Direct Natural Gas-fired:													
plywood	30/00/55	Cooling Section										1		+	
		Hardwood Veneer Dryer:													
١		Indirect-heated: Heated													
plywood	30700756														
		Hardwood Veneer Dryer:													
		Indirect-heated: Cooling													
plywood	30700757														
		Softwood Veneer Dryer:													
l		Indirect-heated: Heated													
plywood	30700762				0.00059										
		Softwood Veneer Dryer:													
		Indirect-heated: Cooling													
plywood	30700763														
		Veneer Redryer: Radio													
		Frequency-heated:													
plywood	30700770	Hardwood													
		Veneer Redryer: Radio													
		Frequency-heated:													
plywood	30700771	Softwood													
l		L						1		1		1			
plywood	30700773	Board Cooler		1						\bot		 		1	1
		Combined Process Unit						1		1		1			
l		Type Dust Collection: Dry													
plywood	30700777	Wood Material			1		1		1			 	1		
		Combined Process Unit													
l .		Type Dust Collection:						1		1		1			
plywood	30700778	Mixed Dry and Green										1	1		
		Press: Non-Phenol													
		Formaldehyde Resin:						1		1		1			
plywood	30700782	Softwood										1			
		Press: Phenol													
plywood	30700783	Formaldehyde Resin:										<u> </u>			

			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Press: Non-Urea													
		Formaldehyde Resin:													
plywood	30700784	Hardwood													
		Press: Urea Formaldehyde													
plywood	30700785	Resin: Hardwood													
		Hammermill/Chipper: Dry													
plywood	30700791	Wood Material													
		Miscellaneous Coating													
plywood	30700794	Operations													
plywood	30700799	Other Not Classified													
		Lumber Kiln: Indirect-													
		heated: Softwood: Pine													
lumber	30700841														
		Lumber Kiln: Indirect-													
		heated: Softwood: Non-													
lumber	30700842	Pine Species													
		Lumber Kiln: Indirect-													
lumber	30700843	heated: Hardwood													
		Lumber Kiln: Direct-fired:													
lumber	30700844	Softwood: Pine Species													
		Lumber Kiln: Direct-fired:													
		Softwood: Non-Pine													
lumber	30700845														
		Lumber Kiln: Direct-fired:													
lumber	30700846	Hardwood													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Natural Gas-													
MDE	2070000	fired: Blowline Blend: Non-													
MDF	30700909	Urea Formaldehyde Resin: Pressurized		-			+	+	+				-	+	+
		Refiner/Primary Tube													
		Dryer: Direct Natural Gas-													
		fired: Blowline Blend: Non-													
MDF	30700910	Urea Formaldehyde Resin:													
וטועוייו	30700910	Pressurized	1	+		+	+		+					+	+
		Refiner/Primary Tube					1		1						1
		Dryer: Direct Natural Gas-					1		1						1
		fired: Blowline Blend: Non-					1		1						1
	1	Urea Formaldehyde Resin:													
MDF	30700911														
	55,00511	Pressurized	<u> </u>	1			1		1	1		1		1	1
	1	Refiner/Primary Tube													
		Dryer: Direct Natural Gas-					1		1						1
		fired: Blowline Blend: Urea					1		1						1
MDF	30700912	Promaldehyde Resin:					1		1						1
						+						·		+	

							1		1	1	1	1	1		
							D: (0								
			1,1,1- Trichloro	Aceto			Bis-(2- ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
CWI	366	Pressurized	Ctriurio	prioriorio	Donzono	Бірпопу	pricticato)	mountaine	diodilido	omonac	otilalio	- CINCICIONIII	motriano	Guinono	prictionate
		Refiner/Primary Tube													
		Dryer: Direct Natural Gas-													
		fired: Blowline Blend: Urea													
MADE	20700012														
MDF	30700913	Formaldehyde Resin:													1
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Natural Gas-													
		fired: Blowline Blend: Urea													
MDF	30700914	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
MDF	30700915	Non-Blowline Blend:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
MDF	30700916	Non-Blowline Blend:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
MDE	20700017	Non-Blowline Blend: Mixed													
MDF	30700917	Pressurized					+		+	_			+		
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Non-Urea													
MDF	30700918	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Non-Urea													
MDF	30700919	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Non-Urea													
MDF	30700920	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube					1		1	1					1
		Dryer: Direct Wood-fired:								1					
		Blowline Blend: Urea					1		1	1					1
MDF	30700022	Formaldehyde Resin:								1					
וטואו	30700923	Pressurized					1	+	1	+					1
		Refiner/Primary Tube					1		1	1					1
							1		1	1					1
		Dryer: Direct Wood-fired:								1					
		Blowline Blend: Urea								1					
MDF	30700924	Formaldehyde Resin:					-		-	-					
		Pressurized					1		1	1					1
		Refiner/Primary Tube					1		1	1					1
		Dryer: Direct Wood-fired:					1		1	1					1
		Blowline Blend: Urea					1		1	1					1
MDF	30700925	Formaldehyde Resin:								1					

			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Natural Gas-													
MDF	30700926	fired: Non-Blowline Blend:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Natural Gas-													
MDF	30700927	fired: Non-Blowline Blend:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Natural Gas-													
		fired: Non-Blowline Blend:													
ИDF	30700928														
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-heated:													
		Blowline Blend: Non-Urea													
ИDF		Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-heated:													
		Blowline Blend: Non-Urea													
4DE		Formaldehyde Resin:													
ИDF		Pressurized											+		
		Refiner/Primary Tube													
		Dryer: Indirect-heated:													
		Blowline Blend: Urea													
MDF	30700932	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-heated:													
		Blowline Blend: Non-Urea													
MDF	30700934	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-heated:													
		Blowline Blend: Urea													
ИDF	30700936	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-heated:						1							
		Blowline Blend: Urea													
/IDF	30700939	Formaldehyde Resin:						<u> </u>							
		Secondary Tube Dryer: All						1							
/IDF		Indirect-fired Units			0.00073			<u> </u>							
		Secondary Tube Dryer: All													
ИDF	30700943	Direct-fired Units		<u> </u>				<u> </u>							
ИDF	30700946	Fiber Dryers: Other						1							
		Agriculture Fiber Rotary						1							
ИDF	30700947														
		Reconstituted Wood						1							
		Products Press:						1							
ИDF		Continuous: Urea		I				1							1

															$\overline{}$
			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Reconstituted Wood													
		Products Press:													
		Continuous: Non-Urea													
MDF	30700951	Formaldehyde Resin													
		Reconstituted Wood													
		Products Press: Batch: Urea													
MDF	30700960	Formaldehyde Resin													
		Reconstituted Wood													
		Products Press: Batch: Non-													
MDF	30700961	Urea Formaldehyde Resin													
		Agriculture Fiber Board													
MDF	30700962	Press													
		Board Cooler: Urea													
MDF	30700971	Formaldehyde Resin													
		Board Cooler: Non-Urea													
MDF	30700972	Formaldehyde Resin													
		Former Without Blowline													
		Blend: Non-Urea													
MDF	30700977	Formaldehyde Resin													
		Former With Blowline													
		Blend: Non-Urea													
MDF	30700978	Formaldehyde Resin													
		Blender: Non-Urea													
MDF	30700979	Formaldehyde Resin													
		Blender: Urea													
MDF	30700980	Formaldehyde Resin													
		Former Without Blowline													
		Blend: Urea Formaldehyde													
MDF	30700981														
		Former With Blowline													
MDF	30700982	Blend: Urea Formaldehyde													
		Sanding Operations: Urea													
MDF	30700983	Formaldehyde Resin													
		Sawing Operations: Pre-													
		Press: Urea Formaldehyde													
MDF	30700984								1						
		Sanding Operations: Non-													
MDF	30700985	Urea Formaldehyde Resin							1						
		Sawing Operations: Pre-													
		Press: Non-Urea	1						1						
MDF	30700986	Formaldehyde Resin	ļ				1		 						1
	1	Sawing Operations: Post-	1						1						
		Board Cooler: Urea													
MDF		Formaldehyde Resin							1						
		Sawing Operations: Post-													
		Board Cooler: Non-Urea	1						1						
MDF	30700988	Formaldehyde Resin	 	-					+	1			1		+
		Sawing Operations: Post-													
1405	207000	Press: Pre-Board Cooler:													
MDF	30700989	Urea Formaldehyde Resin	 			1			+	+			-		
		Sawing Operations: Post-													
		Press: Pre-Board Cooler:													
1405	207000	Non-Urea Formaldehyde	1						1	1					
MDF	30700990	kesin	l	1						1					

			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Panel Trim													
MDF	30700991	Hammermill/Chipper			1										
		Combined Process Unit													
		Type Dust Collection: Dry													
MDF	30700994	Wood Material													
		Combined Process Unit													
	2070005	Type Dust Collection:													
MDF	30700995	Mixed Dry and Green			+								+	+	
MDF	20700006	Resin Storage Tanks													
IVIDE	30700996	Miscellaneous Coating			+			+	+	+			+	+	1
MDF	30700997	Operations													
IVIDI	30700997	Operations			1								+	1	
MDF	30700999	Other Not Classified													
	30700333	Rotary Strand Dryer: Direct													
OSB	30701009	Wood-fired: Softwood			0.0067									0.055	
		Rotary Strand Dryer: Direct			-										
OSB	30701010	Wood-fired: Hardwood			0.01										
		Rotary Strand Dryer: Direct													
		Wood-fired: Mixed													
OSB	30701015	Softwood/Hardwood													
		Rotary Strand Dryer: Direct													
		Natural Gas-fired:													
OSB	30701020	Hardwood													
		Rotary Strand Dryer: Direct													
OSB	30701021	Natural Gas-fired:			0.0067									0.055	
		Rotary Strand Dryer: Direct													
		Natural Gas-fired: Mixed													
OSB	30701022	Softwood/Hardwood													
		Rotary Strand Dryer:													
OSB	30701030	Indirect-heated: Hardwood													
		Rotary Strand Dryer:													
OSB	30/01031	Indirect-heated: Softwood			0.0067								+	0.055	
		Rotary Strand Dryer:													
OCD	20701022	Indirect-heated: Mixed Softwood/Hardwood													
OSB	30701032	Indirect-heated Conveyor			+			+	+	+			+	+	+
OSB	30701020	Dryer, Softwood						1		1					
555	30701039	Conveyor Dryer: Heated			1			+	+	+					
OSB	30701040	Zones: Hardwood						1		1					
	307.02040	Conveyor Dryer: Heated								1					
OSB	30701041	Zones: Softwood						1		1					
		Conveyor Dryer: Heated						1		1					
		Zones: Mixed													
OSB	30701042	Hardwood/Softwood						1		1					
		Conveyor Dryer: Unheated													
OSB	30701043	Zones: All Species								1					
		Reconstituted Wood													
		Products Press: Phenol						1		1					
OSB	30701053	Formaldehyde Resin			<u> </u>						<u> </u>			1	

		I			T				1				1	1	
							D: (0								
			1,1,1-				Bis-(2-	D	Carrinan	C 4-4	Chlana		Chlass		D: N. bustul
PCWP	scc	SCC Level Four	Trichloro ethane	Aceto phenone	Benzene	Biphenyl	ethylhexyl phthalate)	Bromo methane	Carbon disulfide	Carbon tetra chloride	ethane	Chloroform	Chloro methane	Cumene	Di-N-butyl phthalate
PCWP	300	Reconstituted Wood	ethane	prierione	Belizelle	Бірпепуі	pritrialate)	memane	uisuillue	Cilioride	etilalie	Cilioroloriii	methane	Currene	pritrialate
		Products Press: Methylene													
	22724255	Diphenyl Diisocyanate													
OSB	30/01055	(MDI) Resin											-		
		Reconstituted Wood													
		Products Press: Phenol													
		Formaldehyde Resin													
		(surface layers)/													
		Methylene Diphenyl													
OSB	30701057	Diisocyanate (MDI) Resin													
		Reconstituted Wood													
OSB	30701058	Products Press													
									1						1
OSB	30701062	Sanding Operations							1						1
		Storage Bins: Trimming and													
OSB	30701064	Dryer Exhaust Cyclone Dust							1						1
		Combined Process Unit													
		Type Dust Collection: Dry													
OSB	30701067	Wood Material													
		Combined Process Unit													
		Type Dust Collection:													
		Mixed Dry and Green													
OSB	30701068	Wood Material													
035	30701000	Blender: Phenol			+										
OSB	30701070	Formaldehyde Resin													
OJD	30701070	Blender: Methylene			+										
		Diphenyl Diisocyanate													
OSB	20701071	(MDI) Resin													
ОЗВ	30/010/1	Former: Phenol			+										
OCD	20701072	Formaldehyde Resin													
OSB	30/010/2				-								-		
		Former Operations:													
ocn	20704072	Methylene Diphenyl													
OSB	30/010/3	Diisocyanate (MDI) Resin			-								-		-
		Former Operations: Phenol													
		Formaldehyde													
ocn	20704074	Resin/Methylene Diphenyl													
OSB	30/010/4	Diisocyanate (MDI) Resin											-		
		Hammermill/Chipper: Dry							1						
OSB	30701084	Wood Material	ļ	ļ	1		1		 						
									1						
		Hammermill/Chipper:													
		Mixed Green and Dry							1						
OSB	30701085	Wood Material													
		Miscellaneous Coating							1						
OSB	30701086	Operations			<u> </u>	1		1	1			<u> </u>			<u> </u>
OSB	30701087	Resin Storage Tanks			1		1								

									1			1			
			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Sawing Operations: Pre-					· · · ·								†
		Press Mat Trimming:													
OSB	30701090	Phenol Formaldehyde													
		Sawing Operations: Pre-													+
		Press Mat Trimming:													
		Methylene Diphenyl													
OSB	30701091	Diisocyanate (MDI) Resin													
		Sawing Operations: Pre-												1	†
		Press Mat Trimming:													
		Phenol Formaldehyde													
		Resin/Methylene Diphenyl													
OSB	30701092	Diisocyanate (MDI) Resin													
		Sawing Operations: Post-													†
		Press Panel Trimming:													
OSB	30701093	Phenol Formaldehyde													
		Sawing Operations: Post-													+
		Press Panel Trimming:													
		Methylene Diphenyl													
OSB	30701094	Diisocyanate (MDI) Resin													
	3070103	Sawing Operations: Post-													+
		Press Panel Trimming:													
		Phenol Formaldehyde													
		Resin/Methylene Diphenyl													
OSB	30701095	Diisocyanate (MDI) Resin													
035	30701033	Disocyanate (WDI) Nesiii						+							+
OSB	30701099	Other Not Classified													
		Pressurized													+
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Non-													
НВ	30701401	Phenol Formaldehyde													
	30701101	Pressurized													+
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Non-													
НВ	30701402	Phenol Formaldehyde													
115	30701402	Pressurized													+
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Non-													
НВ	30701403	Phenol Formaldehyde										1			
	30,01403	Pressurized	1	+			1					+	+		+
	1	Refiner/Primary Tube								1		1	1		
	1	Dryer: Natural Gas-fired:								1		1	1		
		Blowline Blend: Non-													
НВ	30701/10/	Phenol Formaldehyde			0.000088					1		1	0.000019		
טוו	30701404	Pressurized	1		0.000088		1	1				1	0.000019	1	+
		Refiner/Primary Tube													
	1	Dryer: Natural Gas-fired:								1		1	1		
	1	Blowline Blend: Non-										1			
нв	30701405	Phenol Formaldehyde			0.000088								0.000019		
טוו	30/01403	Ti nenoi i ormaluenyue	L		0.000088						l		0.000019	1	

									1						
			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Natural Gas-fired:													
		Blowline Blend: Non-													
НВ	30701406	Phenol Formaldehyde			0.000088								0.000019		
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-fired:													
		Blowline Blend: Phenol													
НВ	30701407	Formaldehyde Resin:			0.000088								0.000019)	
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-fired:													
		Blowline Blend: Phenol													
HB	30701408	Formaldehyde Resin:			0.000088								0.000019		
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-fired:													
		Blowline Blend: Phenol													
НВ	30701409	Formaldehyde Resin:			0.000088								0.000019)	
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Phenol													
НВ	30701410	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Phenol													
НВ	30701411	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Direct Wood-fired:													
		Blowline Blend: Phenol													
НВ	30701412	Formaldehyde Resin:													
		Pressurized													
		Refiner/Primary Tube											1		
		Dryer: Natural Gas-fired:													
		Blowline Blend: Phenol													
НВ	30701413	Formaldehyde Resin:	ļ		0.000088		-	-					0.000019		
		Pressurized											1		
		Refiner/Primary Tube													
		Dryer: Natural Gas-fired:											1		
l		Blowline Blend: Phenol													
НВ	30701414	Formaldehyde Resin:	1	-	0.000088		1	-	+				0.000019	-	-
		Pressurized													
		Refiner/Primary Tube											1		
		Dryer: Natural Gas-fired:											1		
Lub	2070441	Blowline Blend: Phenol			0.000000								0.000010		
HB	30/01415	Formaldehyde Resin:	ļ		0.000088	<u> </u>							0.000019	']	

•			1,1,1-				Bis-(2-								
i				Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	SCC	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-fired:													
		Blowline Blend: Non-													
HB	30701417	Phenol Formaldehyde			0.000088								0.000019		
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-fired:													
		Blowline Blend: Non-													
НВ	30701418	Phenol Formaldehyde			0.000088								0.000019		
		Pressurized													
		Refiner/Primary Tube													
		Dryer: Indirect-fired:													
		Blowline Blend: Non-													
НВ		Phenol Formaldehyde			0.000088								0.000019		
НВ	30701421	Hardboard Oven													
		Secondary Tube Dryer: All													
НВ		Direct-fired Units													
110		Secondary Tube Dryer: All													
НВ		Indirect-fired Units													
110	30701424	indirect-ined offits						+							
НВ	20701426	Fiber Dryers: Other													
ПВ	30/01420	riber bryers. Other			+										+
i		Press Pre-Dryer: Phenol													
LLID															
НВ		Formaldehyde Resin													
i		Press Pre-Dryer: Non-													
		Phenol Formaldehyde													
НВ	30701428	Resin			0.0021										
НВ		Humidifier			0.0000062						0.000014		0.00012		
i		Dry Hardboard Press:													
НВ		Phenol Formaldehyde													
		Dry Hardboard Press: Non-													
HB		Phenol Formaldehyde													
		Wet Hardboard Press:													
НВ		Phenol Formaldehyde													
		Wet Hardboard Press: Non-	<u> </u>					1							
НВ		Phenol Formaldehyde													
		Blender: Phenol	1			1		1			_				
НВ	30701450	Formaldehyde Resin						<u></u>			<u> </u>				
		Blender: Non-Phenol	1			1					1				
НВ	30701451	Formaldehyde Resin	<u> </u>	<u> </u>		<u> </u>			1	1	<u> </u>				
НВ	30701452	Fiber Washer	<u> </u>			<u> </u>			1	1	<u> </u>				
НВ	30701455	Digester: Softwood	1			1		1			1				
НВ	30701456	Digester: Hardwood	1			1		1			1				
		Digester: Mixed											1		
НВ		Softwood/Hardwood	1			1		1			1				
		Atmospheric Refiner:				1	İ	1			1		1		
						•									•

			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Atmospheric Refiner:													
НВ	30701461	Hardwood												0.0034	
		Atmospheric Refiner:													
НВ	30701462													0.0034	
	2272445	Pressurized Refiner:													
НВ	30/01463	Softwood Definer													
LID	20701464	Pressurized Refiner: Hardwood													
НВ	30701464	Pressurized Refiner: Mixed													
НВ	30701/65	Softwood/Hardwood													
110	30701403	Pressurized													
НВ	30701466	Digester/Refiner: Softwood													
110	30701400	Pressurized													
НВ	30701467	Digester/Refiner:													
		Pressurized													
		Digester/Refiner: Mixed													
НВ	30701468	Softwood/Hardwood													
НВ	30701480	Sanding Operations													
НВ	30701481	Sawing Operations													
		Wet Hardboard Former:													
		Vacuum System: Non-													
НВ	30701485	Phenol Formaldehyde													
		Wet Hardboard Former:													
		Vacuum System: Phenol													
НВ	30701486	Formaldehyde Resin													
		Dry Process Former													
LIB	20701407	Operations: Dust													
НВ	30/0148/	Collection: Phenol													
		Dry Process Former Operations: Dust													
		Collection: Non-Phenol													
НВ	20701499	Formaldehyde Resin													
TID	30701488	Wet Process Former													
		Operations: Dust (Fiber)													
		Collection: Phenol													
НВ	30701489	Formaldehyde Resin													
		Wet Process Former													
	1	Operations: Dust (Fiber)						1				1			
		Collection: Non-Phenol													
НВ	30701490	Formaldehyde Resin													
		Combined Process Unit									İ				
		Type Dust Collection: Dry													
НВ	30701493	Wood Material													
		Combined Process Unit													
		Type Dust Collection:													
НВ	30701494	Mixed Dry and Green													
НВ	30701495	Panel Trim Chipper													
		Miscellaneous Coating													
HB	30701496	Operations						<u> </u>							

			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra			Chloro		Di-N-butyl
PCWP	SCC	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
НВ	30701497	Resin Storage Tanks													
110	30701437	Nesiii Storage Tariks													
НВ	30701499	Other Not Classified													
		Mat Dryer: Indirect-													
		heated: Starch binder:													
FB	30701513	Softwood													
		Mat Dryer: Indirect-													
ED.	20701514	heated: Starch binder: Hardwood													
FB	30701514	Mat Dryer: Indirect-													
		heated: Starch binder:													
FB	30701515														
		Mat Dryer: Indirect-													
		heated: Asphalt binder:													
FB	30701516	Softwood													
		Mat Dryer: Indirect-													
		heated: Asphalt binder:													
FB	30701517	Hardwood		1											
		Mat Dryer: Indirect- heated: Asphalt binder:													
FB	30701518														
10	30701318	Mixeu													
		Mat Dryer: Direct-heated:													
FB	30701519	Starch binder: Softwood													
		Mat Dryer: Direct-heated:													
FB	30701520	Starch binder: Hardwood													
		Mat Dryer: Direct-heated:													
		Starch binder: Mixed													
FB	30701521	Softwood/Hardwood													
		Mat Dryer: Direct-heated:													
FB	30701522	Asphalt binder: Softwood													
10	30701322	/ Spriate billact : Softwood													
		Mat Dryer: Direct-heated:													
FB	30701523	Asphalt binder: Hardwood													
		Mat Dryer: Direct-heated:													
		Asphalt binder: Mixed													
FB	30701524	Softwood/Hardwood		1	1								1		
ED.	20704522	Atmospheric Refiner:												0.000	
FB	30/01528	Hardwood Atmospheric Refiner:												0.0034	
FB	30701529													0.0034	
טו		Atmospheric Refiner:												0.0034	
FB		Softwood												0.0034	
		Pressurized Refiner:											1		
FB	30701531	Softwood											<u> </u>		
		Pressurized Refiner:													
FB		Hardwood											1		
		Pressurized Refiner: Mixed													
FB	30701533	Softwood/Hardwood		1	1								1		
ED.	2070452	Diameters Caff													
FB	30/01534	Digester: Softwood		1				1	İ]	Ì		1	I	

			1,1,1-				Bis-(2-								
DOLLID	555	5001	Trichloro	Aceto	B	Disharad	ethylhexyl	Bromo methane	Carbon disulfide	Carbon tetra	Chloro ethane	Chloroform	Chloro	0	Di-N-butyl phthalate
PCWP	SCC	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	metnane	aisumae	chloride	etnane	Chiorotorm	methane	Cumene	pritrialate
FB	30701535	Digester: Hardwood													
		Digester: Mixed													+
FB	30701536	Softwood/Hardwood													
		Pressurized													
FB	30701537	Digester/Refiner: Softwood													
		Pressurized													
FB	30701538	Digester/Refiner:													_
		Pressurized													
FB	20701520	Digester/Refiner: Mixed Softwood/Hardwood													
гь	30/01535	Softwood/Hardwood						+							+
FB	30701540	Fiber Washer: Softwood													
	30702310	The Transferred						+							+
FB	30701541	Fiber Washer: Hardwood													
		Fiber Washer: Mixed													
FB	30701542	Softwood/Hardwood													
		Wet Fiberboard Former:													
FB	30701551	Vacuum: All Binder													
FB	30/01561	Panel Trim Chipper						1							_
В	20701563	Sawing Operations													
ъ	30701302	Combined Process Unit													-
		Type Dust Collection: Dry													
FB	30701567	Wood Material													
		Combined Process Unit													
		Type Dust Collection:													
FB	30701568	Mixed Dry and Green													
		Miscellaneous Coating													
FB	30701591	Operations													
F D	2070450	Desir Community of													
FB	30/01592	Resin Storage Tanks												1	_
В	30701590	Other Not Classified													
	30701333	Hardwood Veneer Dryer:				†							-		
		Indirect-heated: Heated													
_VL	30701601														
		Hardwood Veneer Dryer:													
		Indirect-heated: Cooling													
LVL	30701602			1	1										
		Softwood Veneer Dryer:													
		Indirect-heated: Heated													
.VL	30701603			+	0.00059		1		+	+				1	-
		Softwood Veneer Dryer: Indirect-heated: Cooling													
_VL	30701604														
	3370100-	Hardwood Veneer Dryer:		1	†		1			1				1	+
		Direct Wood-fired: Heated													
_VL	30701605														
		Hardwood Veneer Dryer:													
		Direct Wood-fired: Cooling													
_VL	30701606	Section			1										

			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP S	scc		ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Softwood Veneer Dryer:													
		Direct Wood-fired: Heated													
LVL	30701607														
		Softwood Veneer Dryer:													
		Direct Wood-fired: Cooling													
LVL	30701608														
		Hardwood Veneer Dryer:													
		Direct Natural Gas-fired:													
LVL		Heated Zones													
		Hardwood Veneer Dryer:													
		Direct Natural Gas-fired:													
LVL		Cooling Section													
		Softwood Veneer Dryer:													
		Direct Natural Gas-fired:													
LVL		Heated Zones			0.0057										
		Press: Phenol													
LVL		Formaldehyde Resin													
		Softwood Veneer Dryer:													
		Direct Natural Gas-fired:													
LVL		Cooling Section		1											
		Press: Non-Phenol													
LVL		Formaldehyde Resin													
		Veneer Redryer: Radio													
		Frequency-heated:													
LVL	30701615														
		Veneer Redryer: Radio													
		Frequency-heated:													
LVL		Hardwood													
		Veneer Redryer: Non-RF													
LVL		Heat: Softwood								_			+		
		Veneer Redryer: Non-RF													
LVL	30701618	Heat: Hardwood								_			+		
LVL	20701610	Canding Operations													
LVL		Sanding Operations Hammermill/Chipper: Dry													
LVL	20701622	Wood Material													
LVL		Hammermill/Chipper:													
		Mixed Green and Dry													
LVL		Wood Material													
LVL		Sawing Operations: Dry							+	+			+		
		Veneer and Laminated						1							
		Veneer Lumber (LVL)						1							
LVL	30701627							1							
	30,01027	······································		+				+	+				1		
								1							
LVL	30701628	Log Steaming Vat						1							
		-0		1				1	1						
LVL	30701629	Resin Storage Tanks						1							
		Combined Process Unit		†				1					1		
		Type Dust Collection: Dry						1							
LVL		Wood Material						1							

			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra			Chloro		Di-N-butyl
PCWP	SCC	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Combined Process Unit Type Dust Collection:													
11/1	20701624	Mixed Dry and Green													
LVL	30/01634	Miscellaneous Coating					+								
LVL	30701635	Operations													
	30701033	Орегилопа				+									
LVL	30701639	Other Not Classified													
ljoist	30701670	Curing Chamber													
ljoist	30701671	Resin Storage Tanks													
ljoist	30701672	Sawing Operations													
linist	20701670	Other Net Classified													
ljoist	30/016/9	Other Not Classified Press/Curing Chamber:					+								
		Phenol-Resorcinol-													
GLULAM	30701680	Formaldehyde (PRF) resin													
		Press/Curing Chamber:													
		Non-Phenol-Resorcinol-													
GLULAM	30701681	Formaldehyde (PRF) Resin													
GLULAM	30701682	Resin Storage Tanks													
GLULAM	30701683	Chippers													
GLULAM	30/01684	Sanding Operations					1								
GLULAM	20701685	Sawing Operations													
GLOLAWI	30701083	Sawing Operations													
GLULAM	30701689	Other Not Classified													
		Rotary Strand Dryer: Direct													
LSL	30701701	Wood-fired: Hardwood													
		Rotary Strand Dryer: Direct													
LSL	30701702	Wood-fired: Softwood													
		Rotary Strand Dryer: Direct													
		Wood-fired: Mixed													
LSL	30701703	Softwood/Hardwood													
1 (1	20701704	Rotary Strand Dryer: Direct													
LSL	30/01/04	Natural Gas-fired: Rotary Strand Dryer: Direct		-	1		1	+		+		-		-	
		Natural Gas-fired:													
LSL	30701705	Hardwood													
	11,01,00	Rotary Strand Dryer: Direct		1	1		†		1	1		1			
		Natural Gas-fired: Mixed													
LSL	30701706	Softwood/Hardwood					1								
		Rotary Strand Dryer:													
LSL	30701707	Indirect-heated: Softwood													
		Rotary Strand Dryer:													
LSL	30701708	Indirect-heated: Hardwood		1			1		1			ļ			
		Rotary Strand Dryer:					1								
ıcı	20704700	Indirect-heated: Mixed													
LSL	30/01/09	Softwood/Hardwood			1							1			

			1,1,1-				Bis-(2-								
PCWP	scc	SCC Level Four	Trichloro ethane	Aceto phenone	Benzene	Biphenyl	ethylhexyl phthalate)	Bromo methane	Carbon disulfide	Carbon tetra chloride	Chloro ethane	Chloroform	Chloro methane	Cumene	Di-N-butyl phthalate
		000 2000 1000					,								,,
		Conveyor Dryer: Heated													
LSL	30701710	Zones: Hardwood													
1.61	20704744	Conveyor Dryer: Heated													
LSL	30/01/11	Zones: Softwood Conveyor Dryer: Heated						+		+					+
		Zones: Mixed													
LSL	30701712	Hardwood/Softwood													
		·													
		Conveyor Dryer: Unheated													
LSL	30701713	Zones: All Species													
		Press: Methylene Diphenyl													
1.01	20704720	Diisocyanate (MDI)													
LSL	30/01/20	Adhesive Press: Non-Methylene						+		+					
		Diphenyl Diisocyanate													
LSL	30701721	(MDI) Adhesive													
		Blender: Methylene													
		Diphenyl Diisocyanate													
LSL	30701722	(MDI) Adhesive													
		Blender: Non-Methylene													
LSL	20701722	Diphenyl Diisocyanate (MDI) Adhesive													
LJL	30/01/23	Former Operations:													
		Methylene Diphenyl													
		Diisocyanate (MDI)													
LSL	30701724	Adhesive													
		Former Operations: Non-													
		Methylene Diphenyl													
LSL		Diisocyanate (MDI) Adhesive													
LSL	30/01/23	Auriesive						+		+					+
LSL	30701730	Sanding Operations													
LSL	30701731	Sawing Operations													
1 (1	20701725	Hammermill/Chipper: Dry													
LSL	30/01/35	Wood Material Hammermill/Chipper:			+								+		
		Mixed Green and Dry													
LSL	30701736	Wood Material													
LSL	30701737	Resin Storage Tanks													
LSL	30701739	Other Not Classified			-		1			+			-		
		Hardwood Veneer Dryer: Indirect-heated: Heated													
PSL	30701740														
. 51	33701740	Hardwood Veneer Dryer:			1								1		
		Indirect-heated: Cooling													
PSL	30701741				<u> </u>								<u></u>		

						1				1	I	1	I	1	
			1,1,1-				Bis-(2-								
			Trichloro	Aceto			ethylhexyl	Bromo	Carbon	Carbon tetra	Chloro		Chloro		Di-N-butyl
PCWP	scc	SCC Level Four	ethane	phenone	Benzene	Biphenyl	phthalate)	methane	disulfide	chloride	ethane	Chloroform	methane	Cumene	phthalate
		Softwood Veneer Dryer:				, ,	1								
		Indirect-heated: Heated													
PSL	30701742				0.00059										
		Softwood Veneer Dryer:													
		Indirect-heated: Cooling													
PSL	30701743														
		Hardwood Veneer Dryer:													
		Direct Wood-fired: Heated													
PSL	30701744	Zones													
		Hardwood Veneer Dryer:													
		Direct Wood-fired: Cooling													
PSL	30701745	Section													
		Softwood Veneer Dryer:													
		Direct Wood-fired: Heated													
PSL	30701746	Zones													
		Softwood Veneer Dryer:													
		Direct Wood-fired: Cooling													
PSL	30701747	Section													
		Hardwood Veneer Dryer:													
		Direct Natural Gas-fired:													
PSL	30701748	Heated Zones													
		Hardwood Veneer Dryer:													
		Direct Natural Gas-fired:													
PSL	30701749	Cooling Section													
		Softwood Veneer Dryer:													
		Direct Natural Gas-fired:													
PSL	30701750	Heated Zones			0.0057										
		Softwood Veneer Dryer:													
		Direct Natural Gas-fired:													
PSL	30701751	Cooling Section													
		Veneer Redryer: Radio													
		Frequency-heated:													
PSL	30701752	Hardwood													
		Veneer Redryer: Radio													
		Frequency-heated:													
PSL	30701753	Softwood													
		Veneer Redryer: Other:													
PSL	30701754	Hardwood													
		Veneer Redryer: Other:	1												
PSL	30701755	Softwood													
		Press: Phenol													
PSL	30701760	Formaldehyde Resin													
		Press: Non-Phenol													
PSL	30701761	Formaldehyde Resin													
		Hammermill/Chipper: Dry	1				1								
PSL	30701765	Wood Material	<u> </u>	<u> </u>			1		1						
		Hammermill/Chipper:	1				1								
		Mixed Green and Dry	1				1								
PSL	30701766	Wood Material													

PCWP	scc	SCC Level Four	1,1,1- Trichloro ethane	Aceto phenone	Benzene		Bromo methane	Carbon disulfide	Carbon tetra	Chloroform	Chloro methane	Cumene	Di-N-butyl phthalate
PSL	30701767	Sanding Operations											
		Sawing Operations: Dry											
PSL	30701769	Veneer and Parallel Strand Lumber (PSL) Trimming											
		Combined Process Unit											
		Type Dust Collection: Dry											
PSL	30701772	Wood Material											
		Combined Process Unit											
PSL	20701772	Type Dust Collection: Mixed Dry and Green											
PSL	30/01//3	wiixed Dry and Green											
PSL	30701774	Log Steaming Vat											
PSL	30701776	Resin Storage Tanks											
FJL	30/01//0	Miscellaneous Coating	+				+		+				
PSL	30701777	Operations											
						İ				ĺ			
PSL	30701779	Other Not Classified											

Appendix E. Numerical Emission Factors Included in

ylenes Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
l	
l l	

DCMD	scc	500115	Ethyl benzene	Hudro suinono	MDI	мівк	Methylene chloride	n Havana	Storens	Toluene	Vidence	Cresols	Metals emission factors from Table 3 applied
PCWP	SCC	SCC Level Four Sanding Operations: Urea	benzene	Hydroquinone	MIDI	MIDK	cmoride	n-Hexane	Styrene	Toluelle	Xylenes	Cresois	(lb/MMBtu)
РВ	30700667	Formaldehyde Resin											
	30700007	Sanding Operations: Non-											
РВ	30700668	Urea Formaldehyde Resin											
		Dry Rotary Dryer: Direct											
		Wood-fired: <600F Inlet											
PB	30700670	air, <30%MC: Hardwood	0.0000038	0.00006		0.0024	0.00063	0.000026	0.00012	0.0021	0.00067		Yes
		Dry Rotary Dryer: Direct											
		Wood-fired: <600F Inlet											
PB	30700671	air, <30%MC: Softwood	0.0000038	0.00006		0.0024	0.00063	0.000026	0.00012	0.0021	0.00067		Yes
		Dry Rotary Dryer: Direct											
		Wood-fired: <600F Inlet											
	20700672	air, <30%MC: Mixed	0.0000000	0.0000		0.0024	0.00003	0.00000	0.00043	0.0024	0.00067		
PB	30/006/2	Softwood/Hardwood Dry Rotary Dryer: Direct	0.0000038	0.00006	-	0.0024	0.00063	0.000026	0.00012	0.0021	0.00067		Yes
		Natural Gas-fired: <600F					1						
		Inlet air, <30%MC:											
РВ	30700673	Hardwood											
	30700073	Dry Rotary Dryer: Direct											
		Natural Gas-fired: <600F											
		Inlet air, <30%MC:											
РВ	30700674	Softwood											
		Dry Rotary Dryer: Direct											
		Natural Gas-fired: <600F											
		Inlet air, <30%MC: Mixed											
РВ	30700675	Softwood/Hardwood											
		Green Rotary Dryer: Direct											
PB	30700676	Wood-fired: Hardwood					0.0014		0.00057	0.0059	0.00638		Yes
		Green Rotary Dryer: Direct											
PB	30700677	Wood-fired: Softwood				0.0069	0.0018		0.00036	0.013	0.0093		Yes
		C D D D D											
		Green Rotary Dryer: Direct Wood-fired: Mixed											
DD	20700678						0.0014		0.00057	0.0059	0.00638		Voc
PB	30/000/8	Softwood/Hardwood Green Rotary Dryer: Direct			 	+	0.0014		0.00037	0.0039	0.00038		Yes
		Natural Gas-fired:					1						
РВ	30700679	Hardwood					1						
_	22700075	Green Rotary Dryer: Direct					1						
РВ	30700680	Natural Gas-fired:					1						
		Green Rotary Dryer: Direct											
		Natural Gas-fired: Mixed											
РВ	30700681	Softwood/Hardwood											
		Green Rotary Dryer:					1						
PB	30700682	Indirect-heated: Hardwood											
		Green Rotary Dryer:				1	1						
PB	30700683	Indirect-heated: Softwood			1	1							
		Green Rotary Dryer:					1						
	207225	Indirect-heated: Mixed					1						
PB	30700684	Softwood/Hardwood]			1						

PCWP	scc	SCC Level Four	Ethyl benzene	Hydroquinone	MDI	мівк	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
	100	Agriculture Fiber Rotary							,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(12) 11111242)
РВ	30700685												
		, -											
		Panel Trim											
РВ	30700686	Hammermill/Chipper											
		Sawing Operations: Pre-											
		Press: Urea Formaldehyde											
РВ	30700687	Resin											
		Sawing Operations: Pre-											
		Press: Non-Urea											
РВ	30700688	Formaldehyde Resin											
		Sawing Operations: Post-											
		Press: Pre-Board Cooler:											
РВ	30700689	Urea Formaldehyde Resin											
		Sawing Operations: Post-											
		Press: Pre-Board Cooler:											
		Non-Urea Formaldehyde											
РВ	30700690												
	30700030	Sawing Operations: Post-				_		+			+	+	
		Board Cooler: Urea											
РВ	30700691	Formaldehyde Resin											
гъ	30700091	Sawing Operations: Post-				+						1	
		Board Cooler: Non-Urea											
PB	20700602	Formaldehyde Resin											
РВ	30700092					+		-	+			 	
		Combined Process Unit											
	2070000	Type Dust Collection: Dry											
PB	30700695	Wood Material				+		<u> </u>				+	
		Combined Process Unit											
	2070000	Type Dust Collection:											
PB	30700696	Mixed Dry and Green				+						1	
	20700007	Desir Character Total											
PB	30700697	Resin Storage Tanks				+						1	
		Miscellaneous Coating											
PB	30700698	Operations						ļ	-				
PB	30700699	Other Not Classified						ļ	-				
l													
plywood	30700702	Sanding Operations											
		Sawing Operations: Dry											
		Veneer and Plywood											
plywood	30700710	Trimming											
		Veneer Redryer: Steam-											
plywood	30700720								1				
		Veneer Laying and Glue											
plywood	30700727	Spreading					1						
plywood	30700731	Log Steaming Vat					1		1				
							1						
plywood	30700732	Resin Storage Tanks					1						
		Hardwood Veneer Dryer:					1						
		Direct Wood-fired: Heated					1						
plywood	30700734	Zones				1						1	Yes

													Metals emission factors
			Ethyl				Methylene						from Table 3 applied
PCWP	SCC		benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
		Hardwood Veneer Dryer:											
		Direct Wood-fired: Cooling											
plywood	30700735												
		Softwood Veneer Dryer:											
		Direct Wood-fired: Heated											
plywood	30700736	Zones											Yes
		Softwood Veneer Dryer:											
		Direct Wood-fired: Cooling											
plywood	30700737	_											
p.,	30700707	Softwood Veneer Dryer:											
		Direct Natural Gas-fired:											
plywood	20700752	Heated Zones				0.0026			0.0015	0.0074	0.0039		
piywoou	30700732	Softwood Veneer Dryer:				0.0020	'		0.0013	0.0074	0.0039		
	20700752	Direct Natural Gas-fired:											
plywood	30/00/53	Cooling Section	 		_	-	1	+	1	1	 	ļ	1
		Hardwood Veneer Dryer:											
		Direct Natural Gas-fired:											
plywood	30700754	Heated Zones											
		Hardwood Veneer Dryer:											
		Direct Natural Gas-fired:											
plywood	30700755	Cooling Section											
		Hardwood Veneer Dryer:											
		Indirect-heated: Heated											
plywood	30700756	Zones				0.0022	2						
		Hardwood Veneer Dryer:											
		Indirect-heated: Cooling											
plywood	30700757	_				0.029							
, ,		Softwood Veneer Dryer:											
		Indirect-heated: Heated											
plywood	30700762					0.0015	:			0.0011	0.00075		
prywood	30700702	Softwood Veneer Dryer:				0.0013				0.0011	0.00073		
		Indirect-heated: Cooling											
nhausad	30700763	_				0.0054					0.0033		
plywood	30700703					0.0034	1	_			0.0033	-	
	1	Veneer Redryer: Radio	1								1		
a banco d	207007-0	Frequency-heated:									1		
plywood	30/00770	Hardwood	 		_	-	1	1		1	ļ		
		Veneer Redryer: Radio											
l	1	Frequency-heated:	1								1		
plywood	30700771	Softwood					1			1	ļ	1	
plywood	30700773	Board Cooler											
	1	Combined Process Unit									1		
		Type Dust Collection: Dry											
plywood	30700777	Wood Material	<u> </u>								<u> </u>	<u> </u>	1
		Combined Process Unit											
		Type Dust Collection:											
plywood	30700778	Mixed Dry and Green									1		
		Press: Non-Phenol											
	1	Formaldehyde Resin:	1								1		
plywood		Softwood				0.00071							
,	127.007.02	Press: Phenol	1			3.33371	1				<u> </u>	†	
plywood	30700783	Formaldehyde Resin:	1			0.00071					1		

	1	1											
PCWP	scc	SCC Level Four	Ethyl benzene	Hydroquinone	MDI	MIBK	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
		Press: Non-Urea											
		Formaldehyde Resin:											
plywood	30700784	Hardwood											
		Press: Urea Formaldehyde											
plywood	30700785	Resin: Hardwood				0.0057							
		Hammermill/Chipper: Dry											
plywood	30700791	. Wood Material											
		Miscellaneous Coating											
plywood	30700794	Operations											
plywood	30700799	Other Not Classified											
		Lumber Kiln: Indirect-											
		heated: Softwood: Pine											
lumber	30700841	. Species											
		Lumber Kiln: Indirect-											
		heated: Softwood: Non-											
lumber	30700842	Pine Species											
		Lumber Kiln: Indirect-											
lumber	30700843	heated: Hardwood											
		Lumber Kiln: Direct-fired:											
lumber	30700844	Softwood: Pine Species											
		Lumber Kiln: Direct-fired:											
		Softwood: Non-Pine											
lumber	30700845												
		Lumber Kiln: Direct-fired:											
lumber	30700846	Hardwood											
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Natural Gas-											
		fired: Blowline Blend: Non-											
MDF	30700909	Urea Formaldehyde Resin:											
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Natural Gas-											
		fired: Blowline Blend: Non-											
MDF	30/00910	Urea Formaldehyde Resin:			+	-							
		Pressurized											
		Refiner/Primary Tube											
	1	Dryer: Direct Natural Gas-											
	1	fired: Blowline Blend: Non-											
MDE	20700011	Urea Formaldehyde Resin:											
MDF	30700911	Pressurized	-	+	+						 		
	1	Refiner/Primary Tube Dryer: Direct Natural Gas-											
		fired: Blowline Blend: Urea											
MDF	20700043	Formaldehyde Resin:											
ואוטר	30/00912	i ormanueriyue kesiii.	L				<u> </u>		<u> </u>				1

													Metals emission factors
			Ethyl			MIDIC	Methylene			-	V 1	0	from Table 3 applied
PCWP	SCC	SCC Level Four	benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Natural Gas-											
		fired: Blowline Blend: Urea											
MDF	30700913	Formaldehyde Resin:											
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Natural Gas-											
		fired: Blowline Blend: Urea											
MDF	30700914	Formaldehyde Resin:											
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
MDF	30700915	Non-Blowline Blend:											Yes
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
MDF		Non-Blowline Blend:											Yes
		Pressurized											i.es
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
MDE	l l	Non-Blowline Blend: Mixed											Yes
MDF	30700917							_					res
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Non-Urea											
MDF	30700918	Formaldehyde Resin:											Yes
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Non-Urea											
MDF	30700919	Formaldehyde Resin:											Yes
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Non-Urea											
MDF	30700920	Formaldehyde Resin:											Yes
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Urea											
MDF	30700923	Formaldehyde Resin:											Yes
	537,00323	Pressurized						1		+			
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Urea											
MDE	20700024	Formaldehyde Resin:											Vac
MDF	30/00924	Pressurized		+			+	-	+	+		-	Yes
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Urea											
MDF	30700925	Formaldehyde Resin:											Yes

PCWP	scc	SCC Level Four	Ethyl benzene	Hydroquinone	MDI	мівк	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
		Pressurized		.,							,		(12) 11111212)
		Refiner/Primary Tube											
		Dryer: Direct Natural Gas-											
MDF	30700926	fired: Non-Blowline Blend:											
		Pressurized										1	
		Refiner/Primary Tube											
		Dryer: Direct Natural Gas-											
MDF	30700927	fired: Non-Blowline Blend:											
		Pressurized										1	
		Refiner/Primary Tube											
		Dryer: Direct Natural Gas-											
		fired: Non-Blowline Blend:											
MDF	30700928												
	30700320	Pressurized								†		-	
		Refiner/Primary Tube											
		Dryer: Indirect-heated:											
		Blowline Blend: Non-Urea											
MDF	30700929	Formaldehyde Resin:				0.0049							
IVIDI	30700323	Pressurized				0.0043	`					+	
		Refiner/Primary Tube											
		Dryer: Indirect-heated:											
		Blowline Blend: Non-Urea											
MDE	20700020	Formaldehyde Resin:											
MDF	30700930	Pressurized							+	+		-	
		Refiner/Primary Tube											
		Dryer: Indirect-heated:											
1405	20700023	Blowline Blend: Urea				0.0040							
MDF	30700932	Formaldehyde Resin:				0.0049	'					+	
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Indirect-heated:											
1405	20700024	Blowline Blend: Non-Urea				0.0040							
MDF	30700934	Formaldehyde Resin:				0.0049	'		1			1	
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Indirect-heated:											
		Blowline Blend: Urea											
MDF	30700936	Formaldehyde Resin:											
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Indirect-heated:											
		Blowline Blend: Urea											
MDF	30700939	Formaldehyde Resin:	-		1	0.0049		1				1	
		Secondary Tube Dryer: All											
MDF	30700942	Indirect-fired Units	ļ		1	1			1	0.00083		1	
		Secondary Tube Dryer: All											
MDF	30700943	Direct-fired Units	1		-			1	<u> </u>			-	
MDF	30700946	Fiber Dryers: Other			1	1		1	1	ļ		1	
		Agriculture Fiber Rotary											
MDF	30700947		1		1	1		1	1			1	
	1	Reconstituted Wood											
	1	Products Press:											
MDF	30700950	Continuous: Urea				0.016	i						

			Ethyl				Methylene						Metals emission factors from Table 3 applied
PCWP	scc	SCC Level Four	benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
		Reconstituted Wood											
		Products Press:											
		Continuous: Non-Urea											
MDF	30700951	Formaldehyde Resin				0.016	5						
		Reconstituted Wood											
		Products Press: Batch: Urea											
MDF	30700960	Formaldehyde Resin				0.016		1					
		Reconstituted Wood											
	20700064	Products Press: Batch: Non-											
MDF	30700961	Urea Formaldehyde Resin				0.016		+			+		
	20700062	Agriculture Fiber Board											
MDF	30700962							+			+		
1405	20700074	Board Cooler: Urea											
MDF	30700971	Formaldehyde Resin						+	-			_	
MADE	20700072	Board Cooler: Non-Urea											
MDF	30700972	Formaldehyde Resin Former Without Blowline						+			+		
MADE	20700077	Blend: Non-Urea											
MDF	30700977	Formaldehyde Resin						+			+		
		Former With Blowline Blend: Non-Urea											
MDE	20700070	Formaldehyde Resin											
MDF	30700978	'						+			+		
MDF	20700070	Blender: Non-Urea Formaldehyde Resin											
IVIDE	30700979	Blender: Urea						+			+		
MDF	30700980	Formaldehyde Resin											
IVIDI	30700380	Former Without Blowline						+			+		
		Blend: Urea Formaldehyde											
MDF	30700981												
IVIDI	30700301	Former With Blowline						+			+		
MDF	30700982	Blend: Urea Formaldehyde											
IVIDI	30700302	Sanding Operations: Urea						_	-	1			
MDF	30700983	Formaldehyde Resin							0.0014				
	30700303	Sawing Operations: Pre-							0.001				
		Press: Urea Formaldehyde											
MDF	30700984	·											
		Sanding Operations: Non-									1		
MDF	30700985	Urea Formaldehyde Resin							0.0014				
		Sawing Operations: Pre-					İ						
		Press: Non-Urea											
MDF	30700986	Formaldehyde Resin											
		Sawing Operations: Post-							1				
		Board Cooler: Urea											
MDF	30700987	Formaldehyde Resin											
		Sawing Operations: Post-							1				
		Board Cooler: Non-Urea											
MDF		Formaldehyde Resin											
		Sawing Operations: Post-											
		Press: Pre-Board Cooler:											
MDF	30700989	Urea Formaldehyde Resin											
		Sawing Operations: Post-											
		Press: Pre-Board Cooler:											
1		Non-Urea Formaldehyde											
MDF	30700990												

													Metals emission factors
			Ethyl				Methylene						from Table 3 applied
PCWP	scc	SCC Level Four	benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
		Panel Trim											
MDF	30700991	Hammermill/Chipper											
		Combined Process Unit											
		Type Dust Collection: Dry											
MDF	30700994	Wood Material						+					
		Combined Process Unit											
1405	2070005	Type Dust Collection:											
MDF	30700995	Mixed Dry and Green											
MDF	30700996	Resin Storage Tanks											
IVIDI	30700990	Miscellaneous Coating						+					
MDF	30700997	Operations											
IVIDI	30700337	Operations											
MDF	30700999	Other Not Classified											
		Rotary Strand Dryer: Direct						1					
OSB	30701009	Wood-fired: Softwood				0.0078				0.015	0.01		Yes
		Rotary Strand Dryer: Direct								0.000			1.33
OSB	30701010	Wood-fired: Hardwood							0.0034	0.013			Yes
		Rotary Strand Dryer: Direct											
		Wood-fired: Mixed											
OSB	30701015	Softwood/Hardwood											Yes
		Rotary Strand Dryer: Direct											
		Natural Gas-fired:											
OSB	30701020	Hardwood											
		Rotary Strand Dryer: Direct											
OSB	30701021	Natural Gas-fired:				0.0078	:			0.015	0.01		
		Rotary Strand Dryer: Direct											
		Natural Gas-fired: Mixed											
OSB	30701022	Softwood/Hardwood											
		Rotary Strand Dryer:											
OSB	30701030	Indirect-heated: Hardwood											
		Rotary Strand Dryer:											
OSB	30701031	Indirect-heated: Softwood				0.0078				0.015	0.01		
		Rotary Strand Dryer:											
		Indirect-heated: Mixed											
OSB	30701032	Softwood/Hardwood											
		Indirect-heated Conveyor											
OSB	30701039	Dryer, Softwood											
		Conveyor Dryer: Heated											
OSB	30701040	Zones: Hardwood											
		Conveyor Dryer: Heated											
OSB	30701041	Zones: Softwood				1		1					
		Conveyor Dryer: Heated											
ocn	207242	Zones: Mixed											
OSB	30701042	Hardwood/Softwood											
		Conveyor Dryer: Unheated											
OSB	30701043	Zones: All Species											
		Reconstituted Wood											
OCD	20704053	Products Press: Phenol											
OSB	30/01053	Formaldehyde Resin	1					1	l	Ì		<u> </u>	

													Metals emission factors
			Ethyl			MIDIC	Methylene				v 1		from Table 3 applied
PCWP	scc	SCC Level Four Reconstituted Wood	benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
		Products Press: Methylene											
		Diphenyl Diisocyanate											
OSB		(MDI) Resin			0.0021								
036	30701033	Reconstituted Wood			0.0021					+			
		Products Press: Phenol											
		Formaldehyde Resin											
		(surface layers)/											
		Methylene Diphenyl											
OSB		Diisocyanate (MDI) Resin			0.0011								
	-	Reconstituted Wood			0.0011					1			
OSB	30701058	Products Press											
	-									1			
OSB	30701062	Sanding Operations											
		Storage Bins: Trimming and											
OSB	30701064	Dryer Exhaust Cyclone Dust											
		,											
		Combined Process Unit											
		Type Dust Collection: Dry											
OSB	30701067	Wood Material											
		Combined Process Unit											
		Type Dust Collection:											
		Mixed Dry and Green											
OSB	30701068	Wood Material											
		Blender: Phenol											
OSB	30701070	Formaldehyde Resin											
		Blender: Methylene											
		Diphenyl Diisocyanate											
OSB	30701071	(MDI) Resin											
		Former: Phenol											
OSB	30701072	Formaldehyde Resin											
		Former Operations:											
		Methylene Diphenyl											
OSB	30701073	Diisocyanate (MDI) Resin											
		Former Operations: Phenol											
		Formaldehyde											
OCD		Resin/Methylene Diphenyl											
OSB	30701074	Diisocyanate (MDI) Resin					+	<u> </u>	-	-			
		Hammermill/Chipper: Dry											
OSB		Wood Material											
OSB	30/01084	vvoou iviateriai	-		+	 		1					
		Hammermill/Chipper:											
		Mixed Green and Dry											
OSB													
OSB		Wood Material Miscellaneous Coating			+	-	+	+	1	1		-	
OSB		Operations			1								
OSB	30/01086	Operations			+	-	+	+		+			
OSB	20701007	Resin Storage Tanks											
UJD	20/0108/	Mesili Storage Talliks	<u> </u>			<u> </u>		1	1	1	1	1	1

PCWP	scc	SCC Level Four	Ethyl benzene	Hydroquinone	MDI	мівк	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
PCVVP	300	Sawing Operations: Pre-	Delizerie	riyaroquinone	INIDI	MIDK	Cilionae	II-HEXAIIE	Styrene	Toluelle	Aylelles	CIESUIS	(ID/IVIIVIBLU)
		Press Mat Trimming:											
OSB	30701000	Phenol Formaldehyde											
USB	30701090	Sawing Operations: Pre-						_					
		- '											
		Press Mat Trimming:											
		Methylene Diphenyl											
OSB	30/01091	Diisocyanate (MDI) Resin											
		Sawing Operations: Pre-											
		Press Mat Trimming:											
		Phenol Formaldehyde											
		Resin/Methylene Diphenyl											
OSB	30701092	Diisocyanate (MDI) Resin											
		Sawing Operations: Post-											
		Press Panel Trimming:											
OSB	30701093	Phenol Formaldehyde											
		Sawing Operations: Post-											
		Press Panel Trimming:											
		Methylene Diphenyl											
OSB	20701004	Diisocyanate (MDI) Resin											
ОЗВ	30701094							_					
		Sawing Operations: Post-											
		Press Panel Trimming:											
		Phenol Formaldehyde											
		Resin/Methylene Diphenyl											
OSB	30701095	Diisocyanate (MDI) Resin											
OSB	30701099	Other Not Classified											
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Non-											
НВ	30701401	Phenol Formaldehyde											Yes
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Non-											
НВ	20701402	Phenol Formaldehyde											Yes
ПВ	30701402							_					res
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
	1	Blowline Blend: Non-			1		1						
НВ	30701403	Phenol Formaldehyde			1								Yes
	1	Pressurized			1		1						
	1	Refiner/Primary Tube			1		1						
	1	Dryer: Natural Gas-fired:			1		1						
	1	Blowline Blend: Non-			1		1						
НВ	30701404	Phenol Formaldehyde	0.00013		1		1		0.0027	0.00023	0.000056		
_		Pressurized	5.55015					1	5.5527	3.55525	2.222330		
	1	Refiner/Primary Tube			1		1						
	1	Dryer: Natural Gas-fired:			1		1	1					
		Blowline Blend: Non-											
LUD	20704 405		0.00010					1	0.000=	0.00000	0.00055		
HB	30/01405	Phenol Formaldehyde	0.00013						0.0027	0.00023	0.000056		

PCWP	scc	SCC Level Four	Ethyl benzene	Hydroquinone	MDI	мівк	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
		Pressurized											,
		Refiner/Primary Tube											
		Dryer: Natural Gas-fired:											
		Blowline Blend: Non-											
НВ	30701406	Phenol Formaldehyde	0.00013						0.0027	0.00023	0.000056		
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Indirect-fired:											
		Blowline Blend: Phenol											
НВ	30701407	Formaldehyde Resin:	0.00013						0.0027	0.00023	0.000056		
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Indirect-fired:											
		Blowline Blend: Phenol											
НВ	30701408	Formaldehyde Resin:	0.00013						0.0027	0.00023	0.000056		
		Pressurized	0.00013						0.0027	0.00020	0.000000		
		Refiner/Primary Tube											
		Dryer: Indirect-fired:											
		Blowline Blend: Phenol											
НВ	30701/109	Formaldehyde Resin:	0.00013						0.0027	0.00023	0.000056		
TID	30701403	Pressurized	0.00013						0.0027	0.00023	0.000030		
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Phenol											
НВ	30701410	Formaldehyde Resin:											Yes
TID	30701410	Pressurized											163
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
		Blowline Blend: Phenol											
НВ	20701411	Formaldehyde Resin:											Yes
ПВ	30701411	Pressurized					+	-	-				res
		Refiner/Primary Tube											
		Dryer: Direct Wood-fired:											
LID	20701412	Blowline Blend: Phenol											w
НВ	30/01412	Formaldehyde Resin:											Yes
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Natural Gas-fired:											
	20704 ***	Blowline Blend: Phenol											
НВ	30701413	Formaldehyde Resin:	0.00013			1			0.0027	0.00023	0.000056		
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Natural Gas-fired:											
		Blowline Blend: Phenol											
НВ	30701414	Formaldehyde Resin:	0.00013						0.0027	0.00023	0.000056		
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Natural Gas-fired:											
		Blowline Blend: Phenol											
HB	30701415	Formaldehyde Resin:	0.00013	<u> </u>		1			0.0027	0.00023	0.000056		

			Ethyl				Methylene						Metals emission factors from Table 3 applied
PCWP	scc	SCC Level Four	benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
		Pressurized											, , ,
		Refiner/Primary Tube											
		Dryer: Indirect-fired:											
		Blowline Blend: Non-											
НВ	30701417	Phenol Formaldehyde	0.00013						0.0027	0.00023	0.000056		
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Indirect-fired:											
		Blowline Blend: Non-											
HB	30701418	Phenol Formaldehyde	0.00013						0.0027	0.00023	0.000056		
		Pressurized											
		Refiner/Primary Tube											
		Dryer: Indirect-fired:											
		Blowline Blend: Non-											
НВ	30701419	Phenol Formaldehyde	0.00013						0.0027	0.00023	0.000056		
НВ	20701/121	Hardboard Oven				0.0046							
TID	30701421	Secondary Tube Dryer: All				0.0040	'						
НВ	30701423	Direct-fired Units											
110	30701423	Secondary Tube Dryer: All											
НВ	30701424	Indirect-fired Units											
НВ	30701426	Fiber Dryers: Other											
		Press Pre-Dryer: Phenol											
НВ	30701427	Formaldehyde Resin											
		Press Pre-Dryer: Non-											
		Phenol Formaldehyde											
НВ	30701428	Resin				0.0034			0.00016	0.001			
НВ	30701//31	Humidifier	0.000032							0.000034	0.000042	0.00054	
TID	30701431	Dry Hardboard Press:	0.000032							0.000034	0.000042	0.00054	
НВ	30701441	Phenol Formaldehyde								0.0011	0.0089		
		Dry Hardboard Press: Non-											
НВ	30701443	Phenol Formaldehyde											
		Wet Hardboard Press:											
НВ	30701444	Phenol Formaldehyde	<u> </u>		<u> </u>					0.0011	0.0089		
		Wet Hardboard Press: Non-	1										<u> </u>
НВ	30701445	Phenol Formaldehyde								0.0011	0.0089		
		Blender: Phenol	1										
НВ	30701450	Formaldehyde Resin	ļ										
l	1	Blender: Non-Phenol	1										
НВ	30701451	Formaldehyde Resin			1	-							
LIB	20704 453	Fiber Washer											
НВ	30/01452	Fiber Washer			+			-					
НВ	30701455	Digester: Softwood				0.00024			0.00016				
	30701733	5.503tc1. 501tw00u			+	3.00024			5.00010				
НВ	30701456	Digester: Hardwood	1			0.00024			0.00016				
		Digester: Mixed			1								
НВ	30701457	Softwood/Hardwood	<u> </u>		<u> </u>	0.00024			0.00016				
		Atmospheric Refiner:											
HB	30701460	Softwood	<u> </u>							0.00029			

ı													
PCWP	scc		Ethyl benzene	Hydroquinone	MDI	мівк	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
		Atmospheric Refiner:									-		, , ,
НВ	30701461	Hardwood								0.00029			
		Atmospheric Refiner:											
НВ	30701462									0.00029			
		Pressurized Refiner:											
НВ	30701463	Softwood				0.00024			0.00016				
115	30701403	Pressurized Refiner:				0.00024			0.00010				
НВ	30701464	Hardwood				0.00024			0.00016				
חום	30701404	Pressurized Refiner: Mixed				0.00024			0.00010	1		+	+
НВ	20701465					0.00034			0.00016				
ПВ	30/01403	Softwood/Hardwood				0.00024	•		0.00016	1		-	
	20704466	Pressurized				0.00024			0.0004.6				
НВ	30/01466	Digester/Refiner: Softwood				0.00024			0.00016	1			
l		Pressurized											
НВ	30701467	Digester/Refiner:				0.00024			0.00016				
l		Pressurized											
l		Digester/Refiner: Mixed											
HB	30701468	Softwood/Hardwood				0.00024			0.00016				
НВ	30701480	Sanding Operations											
l													
HB	30701481	Sawing Operations											
l		Wet Hardboard Former:											
l		Vacuum System: Non-											
HB	30701485	Phenol Formaldehyde				0.00023							
		Wet Hardboard Former:											
l		Vacuum System: Phenol											
НВ	30701486	Formaldehyde Resin				0.00023							
		Dry Process Former											
l		Operations: Dust											
НВ		Collection: Phenol											
		Dry Process Former											
l		Operations: Dust											
l		Collection: Non-Phenol											
НВ		Formaldehyde Resin											
110	30701400	Wet Process Former				+						+	
l		Operations: Dust (Fiber)				1						1	
l		Collection: Phenol				1							
μр	20701400	Formaldehyde Resin				1						1	
НВ	30/01489				+	+		-	1	1		1	
l		Wet Process Former				1						1	
l		Operations: Dust (Fiber)				1						1	
I		Collection: Non-Phenol				1						1	
HB		Formaldehyde Resin				1						1	
l		Combined Process Unit				1							
l		Type Dust Collection: Dry				1							
НВ	30701493	Wood Material											
 		Combined Process Unit				1							
l		Type Dust Collection:				1						1	
НВ	30701494	Mixed Dry and Green										1	
НВ	30701495	Panel Trim Chipper											
		Miscellaneous Coating			1							1	
НВ		Operations				1		1				1	

						1			1				
PCWP	scc	SCC Level Four	Ethyl benzene	Hydroquinone	MDI	MIBK	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
													, ,
НВ	30701497	Resin Storage Tanks											
LID	20701400	Other Not Classified											
НВ	30701499	Mat Dryer: Indirect-											
		heated: Starch binder:											
FB	30701513	Softwood											
	50751515	Mat Dryer: Indirect-											
		heated: Starch binder:											
FB	30701514	Hardwood											
		Mat Dryer: Indirect-											
		heated: Starch binder:											
FB	30701515												
		Mat Dryer: Indirect-											
		heated: Asphalt binder:											
FB	30701516	Softwood											
		Mat Dryer: Indirect-											
		heated: Asphalt binder:											
FB	30701517	Hardwood											
		Mat Dryer: Indirect-											
- D		heated: Asphalt binder:											
FB	30701518	Mixed				-							
		Mat Dryer: Direct-heated:											
FB		Starch binder: Softwood											
ГВ	30701319	Startif billuer. Softwood											
		Mat Dryer: Direct-heated:											
FB		Starch binder: Hardwood											
		Mat Dryer: Direct-heated:											
		Starch binder: Mixed											
FB	30701521	Softwood/Hardwood											
		Mat Dryer: Direct-heated:											
FB	30701522	Asphalt binder: Softwood											
		Mat Dryer: Direct-heated:											
FB	30701523	Asphalt binder: Hardwood											
		Mat Dryer: Direct-heated:											
		Asphalt binder: Mixed											
FB	30701524	Softwood/Hardwood											
LD.	20704520	Atmospheric Refiner:								0.00000			
FB	30/01528	Hardwood Atmospheric Refiner:			-	+	 	1	1	0.00029		1	
FB	30701529									0.00029			
I'D	30/01329	Atmospheric Refiner:				+		+		0.00029		+	
FB	30701530	Softwood								0.00029			
-	30701330	Pressurized Refiner:				+		+	1	0.00029		+	
FB	30701531	Softwood				0.00024			0.00016				
	33,01331	Pressurized Refiner:				3.00024			5.00010				1
FB	30701532	Hardwood				0.00024			0.00016				
		Pressurized Refiner: Mixed				1							
FB	30701533	Softwood/Hardwood				0.00024			0.00016				
FB	30701534	Digester: Softwood											

			Ethyl				Methylene						Metals emission factors from Table 3 applied
PCWP	SCC	SCC Level Four	benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
FB	30701535	Digester: Hardwood				0.00024			0.00016				
10	30701333	Digester: Mixed				0.00024			0.00010				
FB	30701536	Softwood/Hardwood				0.00024			0.00016				
		Pressurized											
FB	30701537	Digester/Refiner: Softwood				0.00024			0.00016				
		Pressurized											
FB	30701538	Digester/Refiner:				0.00024			0.00016				
		Pressurized											
		Digester/Refiner: Mixed											
FB	30701539	Softwood/Hardwood	1			0.00024			0.00016				
rn.	20701540	Fiber Washer: Softwood											
FB	30701340	Fiber Washer: Softwood											
FB	30701541	Fiber Washer: Hardwood											
	30701341	Fiber Washer: Mixed											
FB	30701542	Softwood/Hardwood											
		Wet Fiberboard Former:											
FB	30701551	Vacuum: All Binder								0.0023			
FB	30701561	Panel Trim Chipper											
FB	30701562	Sawing Operations											
		Combined Process Unit											
FB	30701567	Type Dust Collection: Dry Wood Material											
10	30701307	Combined Process Unit											
		Type Dust Collection:											
FB	30701568	Mixed Dry and Green											
		Miscellaneous Coating											
FB	30701591	Operations											
FB	30701592	Resin Storage Tanks											
FB	30/01599	Other Not Classified											
		Hardwood Veneer Dryer: Indirect-heated: Heated											
LVL	30701601					0.0022							
LVL	30701001	Hardwood Veneer Dryer:			1	0.0022	+	+					
		Indirect-heated: Cooling											
LVL	30701602	_				0.029							
		Softwood Veneer Dryer:				1							
		Indirect-heated: Heated											
LVL	30701603					0.0015		<u> </u>		0.0011	0.00075	<u> </u>	
		Softwood Veneer Dryer:											
		Indirect-heated: Cooling											
LVL	30701604				1	0.0054		1			0.0033		
		Hardwood Veneer Dryer:											
1371	2070460	Direct Wood-fired: Heated											V · ·
LVL	30701605				-		 	1				1	Yes
		Hardwood Veneer Dryer: Direct Wood-fired: Cooling											
LVL	30701606												
LVL	20/01000	Тэссион	1		1	1	1	1	<u> </u>	l	I.	I	_1

PCWP	scc		Ethyl benzene	Hydroquinone	MDI	MIRK	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
	300	Softwood Veneer Dryer:	DOMEGNO	Tryaroquillono		IIII DIX	Gilloriae	ППОХОПО	Otyrono	Toluono	хуюноо	0100010	(ID) IVIIVIDEA)
		Direct Wood-fired: Heated											
LVL	30701607												Yes
	30701007	Softwood Veneer Dryer:											163
		Direct Wood-fired: Cooling											
LVL	30701608	_											
LVL	30701000	Hardwood Veneer Dryer:				+			+				
		Direct Natural Gas-fired:											
LVL													
LVL	30701609	Heated Zones Hardwood Veneer Dryer:					-		-				
	2072454	Direct Natural Gas-fired:											
LVL	30/01610	Cooling Section				1			1				
		Softwood Veneer Dryer:											
		Direct Natural Gas-fired:											
LVL	30701611	Heated Zones				0.0026			0.0015	0.0074	0.0039		
		Press: Phenol								1			
LVL	30701612	Formaldehyde Resin											
		Softwood Veneer Dryer:				1							
		Direct Natural Gas-fired:											
LVL	30701613	Cooling Section											
		Press: Non-Phenol											
LVL	30701614	Formaldehyde Resin			0.09	9							
		Veneer Redryer: Radio											
		Frequency-heated:											
LVL	30701615	Softwood											
		Veneer Redryer: Radio											
		Frequency-heated:											
LVL	30701616	Hardwood											
		Veneer Redryer: Non-RF				1							
LVL	30701617	Heat: Softwood											
	30701017	Veneer Redryer: Non-RF							+				
LVL	30701618	Heat: Hardwood											
LVL	30701018	Tieat. Hai uwoou				+			+				+
	20704640	S. I. O. O. I.											
LVL	30/01619	Sanding Operations				-			 				
	20704622	Hammermill/Chipper: Dry											
LVL	30/01623	Wood Material											
		Hammermill/Chipper:								1			
		Mixed Green and Dry											
LVL	30701624	Wood Material				_							
		Sawing Operations: Dry				1				1			
		Veneer and Laminated				1							
		Veneer Lumber (LVL)				1							
LVL	30701627	Trimming											
										1			
						1				1			
LVL	30701628	Log Steaming Vat	<u> </u>			<u> </u>			<u> </u>	<u> </u>			
LVL	30701629	Resin Storage Tanks								1			
		Combined Process Unit											
		Type Dust Collection: Dry								1			
LVL	30701633	Wood Material				1			1				
LVL	30/01633	wood waterial	l			<u> </u>			<u> </u>	L		<u> </u>	<u> </u>

PCWP	scc	SCC Level Four	Ethyl benzene	Hydroquinone	MDI	мівк	Methylene chloride	n-Hexane	Styrono	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
PCVVP	300	Combined Process Unit	Delizerie	Trydroquinone	INIDI	WIIDK	Cilionae	II-I IEXAIIE	Styrene	Toluelle	Aylelles	Cresois	(ID/IVIIVIBLU)
		Type Dust Collection:											
LVL	30701634	Mixed Dry and Green											
		Miscellaneous Coating											
LVL	30701635	Operations											
LVL	30701639	Other Not Classified											
ljoist	30701670	Curing Chamber											
ljoist	30701671	Resin Storage Tanks											
ljoist	30701672	Sawing Operations											
ljoist	30701679	Other Not Classified											
		Press/Curing Chamber: Phenol-Resorcinol-											
GLULAM	30701680	Formaldehyde (PRF) resin Press/Curing Chamber:		+		+		+					
		Non-Phenol-Resorcinol-											
GLULAM	30701681	Formaldehyde (PRF) Resin											
GLULAM	30701682	Resin Storage Tanks				1		-					
GLULAM	30701683	Chippers											
GLULAM	30701684	Sanding Operations											
GLULAM	30701685	Sawing Operations											
GLULAM	30701689	Other Not Classified											
		Rotary Strand Dryer: Direct											
LSL	30701701	Wood-fired: Hardwood							1				Yes
LSL	30701702	Rotary Strand Dryer: Direct Wood-fired: Softwood											Yes
		Rotary Strand Dryer: Direct Wood-fired: Mixed											
LSL	30701703	Softwood/Hardwood											Yes
		Rotary Strand Dryer: Direct											
LSL	30701704	Natural Gas-fired:							<u> </u>				
		Rotary Strand Dryer: Direct											
1.61	2070470	Natural Gas-fired:											
LSL	30701705	Hardwood							1		+		
		Rotary Strand Dryer: Direct Natural Gas-fired: Mixed			1						1		
LSL		Softwood/Hardwood			1								
LJL	30/01/00	Rotary Strand Dryer:	 	+	+	+		+	+	1	+	+	
LSL	30701707	Indirect-heated: Softwood			1								
-		Rotary Strand Dryer:			1				1		1	1	
LSL	30701708	Indirect-heated: Hardwood			1				<u> </u>		<u> </u>		
		Rotary Strand Dryer:											
l		Indirect-heated: Mixed											
LSL	30701709	Softwood/Hardwood										1	

			Ethyl				Methylene						Metals emission factors from Table 3 applied
PCWP	scc	SCC Level Four	benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
		Conveyor Dryer: Heated											
LSL	30701710	Zones: Hardwood											
		Conveyor Dryer: Heated											
LSL	30701711	Zones: Softwood											
		Conveyor Dryer: Heated											
		Zones: Mixed											
LSL	30701712	Hardwood/Softwood											
		6											
	20704742	Conveyor Dryer: Unheated											
LSL	30/01/13	Zones: All Species Press: Methylene Diphenyl											
		Diisocyanate (MDI)											
LSL	30701720	Adhesive			0.09								
202	30701720	Press: Non-Methylene			0.03								
		Diphenyl Diisocyanate											
LSL	30701721	(MDI) Adhesive											
		Blender: Methylene											
		Diphenyl Diisocyanate											
LSL	30701722	(MDI) Adhesive											
		Blender: Non-Methylene											
		Diphenyl Diisocyanate											
LSL	30701723	(MDI) Adhesive											
		Former Operations:											
		Methylene Diphenyl											
		Diisocyanate (MDI)											
LSL	30701724	Adhesive											
		Former Operations: Non-											
		Methylene Diphenyl											
	20704705	Diisocyanate (MDI)											
LSL	30/01/25	Adhesive											
1 C1	20701720	Sanding Operations											
LSL	30/01/30	Sanding Operations						+			+		
LSL	30701731	Sawing Operations											
	30,01/31	Hammermill/Chipper: Dry		+				+			+		
LSL	30701735	Wood Material											
		Hammermill/Chipper:						1			<u> </u>		
		Mixed Green and Dry											
LSL	30701736	Wood Material											
LSL	30701737	Resin Storage Tanks											
LSL	30701739	Other Not Classified					1	<u> </u>					
		Hardwood Veneer Dryer:											
	1	Indirect-heated: Heated											
PSL	30701740					0.0022							
		Hardwood Veneer Dryer:											
		Indirect-heated: Cooling											
PSL	30701741	Section				0.029		1		<u> </u>		1	

			Ethyl				Methylene						Metals emission factors from Table 3 applied
PCWP	scc	SCC Level Four	benzene	Hydroquinone	MDI	MIBK	chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	(lb/MMBtu)
		Softwood Veneer Dryer:											
		Indirect-heated: Heated											
PSL	30701742					0.0015	5			0.0011	0.00075		
		Softwood Veneer Dryer:											
		Indirect-heated: Cooling											
PSL	30701743	Section				0.0054	. I				0.0033		
		Hardwood Veneer Dryer:											
		Direct Wood-fired: Heated											
PSL	30701744												Yes
. 02	30702711	Hardwood Veneer Dryer:											1.00
		Direct Wood-fired: Cooling											
PSL	30701745	_											
FJL	30/01/43	Softwood Veneer Dryer:						+					1
		Direct Wood-fired: Heated											
DCI	20701740												
PSL	30701746							1					Yes
		Softwood Veneer Dryer:											
		Direct Wood-fired: Cooling											
PSL	30701747												
		Hardwood Veneer Dryer:											
		Direct Natural Gas-fired:											
PSL	30701748	Heated Zones											
		Hardwood Veneer Dryer:											
		Direct Natural Gas-fired:											
PSL	30701749	Cooling Section											
		Softwood Veneer Dryer:											
		Direct Natural Gas-fired:											
PSL	30701750	Heated Zones				0.0026	5		0.0015	0.0074	0.0039		
		Softwood Veneer Dryer:											
		Direct Natural Gas-fired:											
PSL		Cooling Section											
. 02	30701731	Veneer Redryer: Radio						+					
		Frequency-heated:											
PSL	20701752	Hardwood											
FJL	30/01/32	Veneer Redryer: Radio				+		_					
		Frequency-heated:											
PSL	30/01/53	Softwood						1					
		Veneer Redryer: Other:											
PSL	30701754	Hardwood					1	1		1			1
		Veneer Redryer: Other:											
PSL	30701755	Softwood					ļ			ļ	ļ		
	1	Press: Phenol									1		
PSL	30701760	Formaldehyde Resin											
	1	Press: Non-Phenol									1		
PSL	30701761	Formaldehyde Resin			0.09						1		
	1										1		
	1	Hammermill/Chipper: Dry									1		
PSL		Wood Material									1		
- 52	33,31,03							1			1		
	1	Hammermill/Chipper:									1		
	1	Mixed Green and Dry									1		
PSL		Wood Material									1		
. JL	30/01/00	TVOOG IVIGEETIGI	1			L	<u> </u>		1		l	<u> </u>	1

PCWP	scc		Ethyl benzene	Hydroquinone	MDI	мівк	Methylene chloride	n-Hexane	Styrene	Toluene	Xylenes	Cresols	Metals emission factors from Table 3 applied (lb/MMBtu)
PSL	30701767	Sanding Operations											
		Sawing Operations: Dry											
PSL		Veneer and Parallel Strand Lumber (PSL) Trimming											
FJL		Combined Process Unit											
		Type Dust Collection: Dry											
PSL	30701772	Wood Material											
		Combined Process Unit											
	22724	Type Dust Collection:											
PSL	30/01//3	Mixed Dry and Green											
PSL	30701774	Log Steaming Vat											
PSL	20701776	Resin Storage Tanks											
FJL		Miscellaneous Coating											
PSL		Operations											
PSL	30701779	Other Not Classified											