	A	B	C	D	E	F	G	H	I	J
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?						
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.						
3										
4										
5	**Every facility should complete this tab. All site information should be entered on one row.**									
6										
7										
8	**Tab: Mill**									
9	**Survey Reference:**	**Facility Identifiers**		**Facility Location**						
10	**Instruction:**	The ICR ID can be found in the letter that you received from the EPA instructing you to complete this survey.	Enter the FRS ID provided in the ICR letter. If a different or more recent FRS ID applies you may enter that FRS ID instead.	Facility name. This is typically the legal operator of the facility.	Complete street address of facility (physical location)	Enter the City (physical location)	Enter the State (physical location)	Enter the 5-digit zip code	Enter the County (physical location)	This cell is populated based on the State abbreviation. However, you may overwrite.
11	**Field:**	**ICR ID**	**FRS Site ID**	**Facility Name**	**Physical Address**	**Physical City**	**Physical State Abbreviation**	**Physical Zip**	**Physical County**	**EPA Region**
14	**Example entry:**	9999	999999999999	Sustainable Wood Inc.	1000 Plant Road	Gladstone	VA	24553	Nelson	3
24	1						***[List includes standard two-letter state abbreviations]***			
25										
26										
27										
28										
29										
30										
31										
32										
33										

	K	L	M	N	O	P	Q	R	S	T
1										
2										
3										
4										
5										
6										
7										
8										
9			**Facility Mailing Information**					**Facility Contact Information**		
10	If the facility is on tribal land, select tribe from list.	This cell is populated based on tribal name. However, you may overwrite.	If the answer is yes the next four columns need to be completed. If the answer is no, the physical address will automatically fill these columns	Provide mailing address if different than physical location (by overwriting the cell formula).				Facility contact able to answer technical questions about the completed survey		
11	**Tribal Name**	**Tribal Code**	**Is mailing address different than physical address?**	**Mail Address**	**Mail Zip**	**Mail City**	**Mail State Abbreviation**	**Facility Contact Name**	**Facility Contact Title**	**Facility Phone**
14	Non-Tribal Area	000	Yes	PO Box 123	24554	Gladys	VA	Joe Smith	Environmental Manager	999-999-9999
24	***[List includes federally recognized Indian Tribal entities and Alaska Native entities; see Appendix A of https://www.epa.gov/sites/production/files/2015-06/documents/tribalidenversion2.2a_10_02_14.pdf for list of entities]***		Yes							
25			No							
26										
27										
28										
29										
30										
31										
32										
33										

	U	V	W	X	Y	Z	AA	AB	AC	AD
1										
2										
3										
4										
5										
6										
7										
8										
9				**Facility Owner Information**					**Facility Details**	
10				List the legal owner of the facility. The legal owner may be the same or different from the legal operator. For example, the operator may be Renewable Resources Anytown LLC, owned by Renewable Resources, Inc.					List operating status for 2016	If you choose an option other than "operating" in the previous column, please add a brief explanation here.
11	**Facility Contact Ext.**	**Facility Contact Direct Phone**	**Facility Contact Email**	**Legal Owner**	**Legal Owner Address**	**Legal Owner Zip**	**Legal Owner City**	**Legal Owner State Abbreviation**	**Operating Status in 2016**	**Explanation of not operating all year in 2016**
14	456	999-999-8888	joe.smith@anymillusa.com	Renewable Resources, Inc.	100 Corporate Blvd.	54304	Green Bay	WI	Operating	
24									Operating	
25									Seasonal / Partial Year	
26									Temporarily Closed	
27										
28										
29										
30										
31										
32										
33										

	AE	AF	AG	AH	AI	AJ	AK	AL
1								
2								
3								
4								
5								
6								
7								
8								
9						**Size of Entity**		
10	List Parent Company. This is often the same as the Legal Owner or Operator, but can differ in some cases. For example, the operator may be Woodmaker Anytown Mill, owned by Woodmaker Company, whose parent company is Huge Investments International Corporation.	List the (parent) company revenue for calendar year 2016 in $millions	Dun and Bradstreet Number for the legal owner of this facility (see TRI Form R)	Dun and Bradstreet Number for this facility (if the mill has its own Dun and Bradstreet Number)	The primary NAICS code represents the line of business that generates the most income for the facility.	Enter the approximate number of employees (worldwide) of the business enterprise that owns this facility, including where applicable, the parent company and all subsidiaries, branches, and unrelated establishments owned by the parent company. Please count full-time, part-time, and temporary employees equally.	Enter the number of facility employees (full-time, part-time, and temporary employees should be counted equally)	See the instructions document for small business size standards based on the number of employees at the parent company.
11	**Parent Company**	**Company Revenue for 2016 ($ millions)**	**Dun Bradstreet Owner Number**	**Dun Bradstreet Facility Number**	**Primary NAICS Code**	**Parent Company Number of Employees**	**Facility Number of Employees**	**Is your company a small business?**
14	Renewable Resources, Inc.	2,000	9020777	149810921	321219-Reconstituted Wood Product Manufacturing (PB,OSB,MDF,HB,FB)	501 to 750	101 to 250	No
24					321113-Sawmills	<100	<100	Yes
25					321211-Hardwood Veneer and Plywood Manufacturing	101 to 250	101 to 250	No
26					321212-Softwood Veneer and Plywood Manufacturing	251 to 500	251 to 500	Unknown
27					321213-Engineered Wood Product Manufacturing (LVL,LSL,PSL,Glu-Lam,I-Beam)	501 to 750	501 to 750	
28					321219-Reconstituted Wood Product Manufacturing (PB,OSB,MDF,HB,FB)	751 to 1000	751 to 1000	
29					321999-All Other Miscellaneous Wood Product Manufacturing	1001 to 1250	1001 to 1250	
30						1001 to 1250	1001 to 1250	
31						>1500	>1500	
32								
33								

	AM	AN	AO	AP	AQ	AR	AS	AT	AU
1									
2									
3									
4									
5									
6									
7									
8									
9	**Federal Air Rule Coverage**								**Comments**
10	Indicate "applies" for each federal National Emission Standard for Hazardous Air Pollutants (NESHAP) or New Source Performance Standard (NSPS) that limits emissions or establishes requirements from any single piece of equipment at the mill. Mark "NA" if not applicable (or if the otherwise applicable Federal rule contains no specific requirements for the equipment types at your mill). For the other standards list the subparts that apply. If in doubt, check your operating permit for Federal air rule subparts that apply. For the Wood Building Products Coating NESHAP, select from the list the subpart QQQQ product subcategory manufactured. If multiple subcategories, select one and write-in the others.								Enter any comments you have on the data supplied.
11	**PCWP NESHAP subpart DDDD**	**Wood Building Products Coatings NESHAP subpart QQQQ**	**List Applicable Wood Building Products Coating MACT Subcategories**	**Boiler NESHAP subpart DDDDD**	**Boiler NSPS D subparts**	**CISWI NSPS subpart CCCC or DDDD**	**Other NESHAP (list subparts)**	**Other NSPS (list subparts)**	**Comments**
14	NA	NA	Exterior Siding and Primed Doorskins	Applies	NA	NA	JJJJ	BB	
24	NA	NA	Exterior Siding and Primed Doorskins	NA	NA	NA			
25	Applies	Applies	Flooring	Applies	Applies	Applies			
26			Interior Wall Paneling and Tileboard						
27			Other Interior Panels						
28			Doors, Windows, and Miscellaneous						
29									
30									
31									
32									
33									

	A	B	C	D	E	F	G	H
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?				
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.				
3								
4								
5	**Every facility should complete this tab. List each product covered by PCWP that is manufactured at each site.**							
6								
7								
8	**Tab: Prod**							
9	**Survey Reference:**		**Product**		**Production and Capacity**			
10	**Instruction:**	This is prepopulated from the Mill tab.	List all PCWP products produced at the plant site. Use one row per product. Mills with multiple products will have multiple rows. Veneer and plywood mills should list veneer and plywood as two separate products on separate rows even if all of the veneer is used onsite to manufacture plywood. See column K to indicate proportion of veneer used onsite. **The value provided here will be carried forward through this spreadsheet.** If "Other" is selected please indicate/describe the product type in the comments column.	Product lines often correspond with press lines. For example, if there are two presses at a mill making two distinctly different products, then you would enter two different product lines on separate rows. However, if a mill with multiple presses makes the same product on all presses (i.e., with the same general resin formulation) then it is acceptable to enter only one product line that sums the capacity/production from all presses. If your facility uses multiple significantly different resin systems to make the same product on the same press (e.g., UF and UF/MDI at different times), a separate Product Line should be specified on two rows for the two significantly different resin systems (which are considered in this ICR to be two separate products). **The value provided here will be carried forward through this spreadsheet. Each product line requires a different name.**	Insert numerical value for the mill nominal production of each product. The value entered must correspond with the nominal units of measure specified in columns G and H.	Insert numerical value for the mill capacity of each product. The value entered must correspond with the units of measure specified in columns G and H. Mill capacity represents the maximum the product line can produce and is typically higher than nominal production.	Select from menu. For veneer and panels use thousand square feet per year (MSF/yr) and note the thickness basis in the next column. For lumber and glue-laminated beams use thousand board feet per year (MBF/yr). Use thousand cubic feet per year (MCF/yr) for LVL, LSL, and PSL; and thousand linear feet per year (MLF/yr) for I-joists. "M" refers to "thousand."	Select the board thickness basis for panel products from the drop down menu. Preferred values are: 1/2" (0.5") for fiberboard; 1/8" (0.125") for hardboard; 3/4" (0.75") for MDF and particleboard; and 3/8" (0.375") for all other products (including veneer). No thickness needs to be entered for lumber or engineered wood products.
11	**Field:**	**ICR ID**	**Product**	**Product Line**	**Nominal Mill Production of the Product in 2016**	**Mill Capacity for the Product in 2016**	**Nominal Production and Capacity Units of Measure**	**Nominal Panel Thickness Basis (decimal inches)**
14	Example entry:	9999	Softwood veneer	SV-1	300,000	400,000	MLF/yr	
15		9999	Softwood plywood	SP-1	120,000	125,000	MSF/yr	0.375
16		9999	Fiberboard	FB-1	55,000	75,000	MCF/yr	0.5
24	1		Softwood plywood				MSF/yr	0.125
25	2		Hardwood plywood				MCF/yr	0.375
26	3		Softwood veneer				MLF/yr	0.5
27	4		Hardwood veneer				MBF/yr	0.75
28	5		OSB					
29	6		MDF					
30	7		Particleboard					
31	8		Hardboard					
32	9		Fiberboard					
33	10		LVL					
34	11		LSL					
35	12		PSL					
36	13		I-joists					
37	14		Glulam					
38	15		Kiln-dried lumber					
39	16		Furniture Components (laminated products)					
40	17		Curved Plywood					
41	18		MDF from agricultural fiber					
42	19		Particleboard from agricultural fiber					
43	20		Molded particleboard					
44			Other					

	I	J	K	L	M	N	O	P	Q
1									
2									
3									
4									
5									
6									
7									
8									
9			**Other Product Info**					**Major Markets**	**Comments**
10	Mill operating hours for 2016	Specify typical hours per day (hr/day) product is produced in 2016.	Percent range for amount of product used onsite or sold within the same company to manufacture other consumer products (e.g., veneer used to produce plywood onsite; OSB shipped to another plant owned by your company for use as I-joist web).	**For Hardwood Plywood only:** Select core material from list (or write in if multiple cores (e.g., MDF and softwood veneer) or cores not in the list are used).	Describe any agricultural fiber used in the product. Leave blank if no agricultural fiber is used.	Select yes, no, or not applicable (NA). Select "No" for products such as fiberboard that do not require resin but rely on natural binders (e.g., lignin) to adhere fibers. Select "NA" for products such as softwood veneer or lumber that do not require resin. Do not consider waxes or other non-adhesive additives when making your selection. Complete the *Resin* tab for the products that "Yes" use resin.	Enter the number of resins used for each product. If the product does not use a resin, please leave the cell blank.	List the major markets for the product. Examples include housing, roofing, office furnishings, cabinets, moulding, store fixtures, shelving, furniture, siding, I-joist web, plywood, automotive interiors etc.	Enter any comments you have on the data supplied.
11	**Operating Hours in 2016 (hr/yr)**	**Operating hr/day**	**Product Used or Sold within Company to Manufacture Other Products**	**Hardwood Plywood Core**	**Use of Agricultural Fiber**	**Does this product use a resin?**	**How many resins does this product use?**	**Major Markets**	**Comments**
14	5800	16	50-100%			NA		structural plywood	
15	8720	24	NA			Yes	2	siding, roofing	This Product line includes 3 presslines.
16	8700	24	NA		bagasse	No		construction, automotive interiors	Bagasse fiber is stored throughout the year.
24			NA	softwood veneer		Yes			
25			<50%	hardwood veneer		No			
26			50-100%	softwood plywood		NA			
27			100%	hardwood plywood					
28				particleboard					
29				MDF					
30				lumber					
31									
32									
33									
34									
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37									
38									
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40									
41									
42									
43									
44									

	A	B	C	D	E	F
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?		
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.		
3						
4						
5	**Every facility should complete this tab. List each product covered by PCWP that is manufactured at each site.**					
6						
7						
8	**Tab: EquipDetail**			*See the instructions document for tips if you wish to remove a Process Unit ID or Emission Release Point ID after completing the ReleasePt or subsequent tabs.		
9	**Survey Reference:**	**Facility Identifiers**		**Process Unit Information**		
10	**Instruction:**	This is prepopulated from the Mill Tab.	This is prepopulated from the Mill Tab.	Enter an Process Unit ID for each PCWP process unit to be included in the ICR response. See the instructions document for a list of process unit types required to be included. You may use the Process Unit ID in the EPA National Emissions Inventory (NEI) data set if NEI data exist for the process unit, or you may create an Process Unit ID based on the ID used in your permit. If there is neither an NEI process unit ID or a permit unit ID, you may create a new Process Unit ID. Duplicate Process Unit IDs are not allowed in this column. **The Process Unit ID provided here will be carried forward throughout this spreadsheet. Each process unit requires a different ID.***	List each process unit separately, even when it has a common control with another process unit. For multiple process units with a common release point (e.g., multiple dryers routed to the same oxidizer) list the process units separately but be sure to use the same emission release point ID. For a process unit that has multiple emission release points, list the process unit ID once and identify all associated emission release points in columns Q-V. Select "other" for any process unit types known to emit HAP that do not appear in the drop down menu and enter a process unit description in the next column.	Optional. Enter a description of the process unit. Use this column to describe the process unit in common terms used within your facility or to distinguish between types of process units (e.g., flying cutoff saw versus finished panel rip saw).
11	**Field:**	**ICR ID**	**FRS Site ID**	**Process Unit ID**	**Process Unit Type**	**Process Unit Description**
14	**Example entry:**	**9999**	999999999999	Press1	Reconstituted wood product press	South press
15		**9999**	999999999999	D-T1	Primary tube dryer	Tube dryer 1
16		**9999**	999999999999	FBDry	Fiberboard mat dryer	Coe dryer
17		**9999**	999999999999	HVdryer2	Hardwood veneer dryer	Veneer dryer 2
24	1				***[See Section D3c of the PCWP ICR Instructions for the 35 options in this drop-down menu]***	
25	2					
26	3					
27	4					
28	5					
29	6					
30	7					
31	8					
32	9					
33	10					

	G	H	I	J	K	L	M	N	O	P
1										
2										
3										
4										
5										
6										
7										
8										
9	**Products**		**Air Pollution Control Device Information**							
10	Select the appropriate product line from the drop down menu options provided and, if applicable, add any additional product lines separated by commas. You may enter multiple Product Lines separated by commas if the process unit listed serves multiple lines (e.g., Prod1, Prod2).	Select the product from the dynamic drop down menu. The menu is unique to data entered on the Prod Tab.	Enter the Air Pollution Control Device (APCD) type and APCD ID for each control device. See the instruction document for a description of the control device types. List any other control measure on the blank line in the drop down menu.	APCD ID 1 is the sole control device or first control device in a series, APCD ID 2 is the second control device in a series, etc.	For example, if a WESP1 and RTO1 are the control IDs in a WESP/RTO system, enter "WESP1" as APCD ID1 and "RTO1" as APCD ID 2.		<u>APCD Types</u>: RTO = Regenerative Thermal Oxidizer, RCO = Regenerative Catalytic Oxidizer, TCO = Thermal Catalytic Oxidizer, TO = Thermal Oxidizer, BIO - Biofilter or Bioscrubber, WESP - Wet Electrostatic Precipitator, ESP - Dry ESP, BH - Baghouse	MC - Multiclone, CYC - Cyclone, RBP - Rotary bed protector, SCBR - Wet scrubber, EFB - Electrified filter bed, SF - Sand filter	PINC - Process incineration of 100% of exhaust in a combustion unit such as a boiler), SINC - Partial process incineration of <100% of the exhaust in a combustion unit	
11	**Product Line**	**Product**	**APCD 1 Type**	**APCD 1 ID**	**APCD 2 Type**	**APCD 2 ID**	**APCD 3 Type**	**APCD 3 ID**	**APCD 4 Type**	**APCD 4 ID**
14	MDF-1	MDF	TCO	TCO1						
15	MDF-1	MDF	WESP	WESP	TCO	TCO1				
16	FB	Fiberboard	SCBR	sc-01						
17	HV-2	Hardwood veneer	None							
24	***[dynamic list based on Column D of the "Prod" tab]***	***[dynamic list based on Column C of the "Prod" tab]***	***[See above and Section D3c of the PCWP ICR Instructions for the 18 options in this drop-down menu]***		***[See above and Section D3c of the PCWP ICR Instructions for the 18 options in this drop-down menu]***		***[See above and Section D3c of the PCWP ICR Instructions for the 18 options in this drop-down menu]***		***[See above and Section D3c of the PCWP ICR Instructions for the 18 options in this drop-down menu]***	
25										
26										
27										
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31										
32										
33										

	Q	R	S	T	U	V	W	X	Y
1									
2									
3									
4			Note:						
5			You have specified this many emission release points: 0						
6			If you exceed 100 release points, please contact the EPA to obtain an expanded version of the spreadsheet						
7			that has additional rows of calculations in the HAP Emissions tab.						
8									
9		**Emission Release Point Information**						**Operations**	
10	Enter the control system type combination from the APCD types listed in the previous columns. For example, if APCD 1 Type is a WESP followed in sequence by APCD 2 Type of an RTO, then the combined air pollution control system is "WESP/RTO." If APCD 1 Type is a scrubber, then the combined air pollution control system is a "SCBR." Please use the abbreviations noted in the APCD type menu. If a process unit vents through parallel controls (e.g., flow split into two parallel WESPs before recombining into one RTO, the entry in this column would be WESP/RTO to represent the type of control system).	Enter the total number of emission points for the process unit. Enter '1' if there are multiple ducts going to the same control, emissions are combined with emissions from other process units and ducted to a common control, and/or emissions from multiple process units are picked up and routed to a common control.	Create and enter Emission Release Point IDs for the process unit. You may use the Emission Release Point ID found in your permit, or in the EPA's National emissions Inventory (NEI) if the individual unit is listed there. Process Units with multiple emission points will have multiple Emission Release Point IDs. If multiple process units are routed to the same emission release point (e.g., multiple dryers sharing 1 RTO), each of the process units will use the same Emission Release Point ID. If a process unit has multiple vents, enter a separate Emission Release Point ID for each vent that is controlled differently. For example, if you have a dryer with 3 zones and only the first two zones ducted to a common control, enter the 2 controlled zones together with the same emission release point ID then enter a separate emission release point ID for the third uncontrolled zone. **The Emission Release Point IDs provided here will be carried forward throughout this spreadsheet.***					Estimate 2016 operating hours for the process unit as accurately as possible.	For uncontrolled process units (i.e., for which you entered "None" in the APCD column), indicate "yes" if emissions are captured in an enclosure and/or conveyance for discharge to the atmosphere.
11	**Air Pollution Control System**	**Total Number of Emission Release Points from the Process Unit**	**Emission Release Point ID 1**	**Emission Release Point ID 2**	**Emission Release Point ID 3**	**Emission Release Point ID 4**	**Emission Release Point ID 5**	**Process Unit 2016 Operating Hours (hr/yr)**	**Uncontrolled Process Unit Capture Systems**
14	TCO	2	TCO stack1	TCO stack 2				8720	Yes
15	WESP/TCO	2	TCO stack1	TCO stack 2				8700	Yes
16	SCBR	1	FBsc01					8650	Yes
17	None	2	1234stack	cooling				7980	No
24	***[Combination of options as noted in Column I]***								Yes
25									No
26									
27									
28									
29									
30									
31									
32									
33									

	Z	AA	AB	AC	AD	AE
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8						
9				**Emissions Testing**	**Resins**	**COMS**
10	For uncontrolled process units (i.e., for which you entered "None" in the APCD column), select from the menu the best description of the process unit exhaust gas configuration.	Guidelines for considering a process unit to be isolated from other process unit emissions include a lack of physical connections between ventilation systems and/or material collection systems; and no mechanism for collection of significant amounts of point or fugitive emissions from other process units.	If you answered "no" to the previous question, please describe how other process unit emission points may be contributing to emissions from this process unit.	Survey respondents may exercise their best professional judgement regarding the ability of an emission point to be measured. EPA Test Method 1 provides the technical information that is useful in making an analysis of emission point measurability (see 40 CFR 60 Appendix A).	Indicate “Yes” if the process unit is beyond the point of resin addition (i.e., processes wood containing resin). Otherwise, leave blank or indicate “no.”	Indicate whether you installed a COMS on APCD controlling process units regulated under the PCWP MACT Rule. As an example, if you use a combustion device with COMS as an add-on control to demonstrate compliance with the PCWP MACT Rule, answer “yes” to this question. If you answer “yes,” also provide the opacity limit from your operating permit on the Permit tab.
11	**Uncontrolled Process Unit Emission Routing Configuration**	**Are emissions from the process unit isolated from other process unit HAP emissions?**	**Contribution from other process unit emission points**	**Does the emission point have a stack suitable for gas flow measurement?**	**Does process unit process wood containing resin (adhesive)?**	**Does this process unit operate with a continuous opacity monitor (COMS)?**
14		Yes		Yes	Yes	No
15		Yes		Yes	Yes	No
16		Yes		Yes	No	No
17	Vented to atmosphere (uncontrolled)	No	Fugitive emissions from dryers 1 and 2 comingle	No	No	No
24	Vented to atmosphere (uncontrolled)	Yes		Yes	Yes	Yes
25	Vented into building (fugitive source)	No		No	No	No
26	Fugitive source (outdoor)					
27						
28						
29						
30						
31						
32						
33						

	AF	AG	AH	AI
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8				
9	**Rule Compliance**			
10	If there is a PCWP control requirement for the process unit select the PCWP compliance option that has been applied. Select "NA" if no PCWP compliance option applies. Select "Work Practice" if applicable and specify the work practice in the next column.	Is there a PCWP work practice for the process unit? If so , select the PCWP work practice compliance requirement that applies.	This question is for facilities where emission averaging is being used as a compliance option. Leave blank if emissions averaging is not used. If emissions averaging is used, briefly describe which uncontrolled or undercontrolled "debit" generating process units have emissions offset by overcontrolled "credit" generating units.	This question is for facilities where emission averaging is being used as a compliance option. Otherwise, leave blank. Select "credit" for process units that are overcontrolled in order to offset emissions from "debit" sources that are undercontrolled. "Debit" sources are process units that are required to meet the emission limits in Tables 1A and 1B of the PCWP NESHAP. If the Emission Averaging Plan required and described under 63.2280(f) is not included in the facility permit, submit a copy of the plan along with your survey response.
11	**PCWP compliance option used to demonstrate compliance with the most recent test**	**List PCWP work practice used to demonstrate compliance**	**Brief description of emissions averaging approach if this compliance option is used**	**For process units that are part of an emission averaging compliance approach, identify them as either a "debit" or "credit" unit.**
14	Reduce formaldehyde emissions by 90 percent (PCWP Table 1B option 5)	NA	The board cooler BC1 (credit unit) is routed to the press TCO instead of controlling the secondary tube dryer (debit unit).	Credit
15	Reduce formaldehyde emissions by 90 percent (PCWP Table 1B option 5)	NA		Debit
16	NA	NA		
17	Work Practice Only	Work Practice for Hardwood Veneer Dryers (PCWP Table 3 option 2)		
24	NA	Work Practice for Dry Rotary Dryers (PCWP Table 3 option 1)		Credit
25	Work Practice Only	Work Practice for Hardwood Veneer Dryers (PCWP Table 3 option 2)		Debit
26	Production Based Compliance Option (PCWP Table 1A)	Work Practice for Softwood Veneer Dryers (PCWP Table 3 option 3)		
27	Emissions Averaging	Work Practice for Veneer ReDryers (PCWP Table 3 option 4)		
28	Reduce emissions of total HAP, measured as THC (as carbon) by 90 percent (PCWP Table 1B option 1)	Work Practice for Group 1 miscellaneous coating operations (PCWP Table 3 option 5)		
29	Limit emissions of total HAP, measured as THC (as carbon), to 20 ppmvd (PCWP Table 1B option 2)	NA		
30	Reduce methanol emissions by 90 percent (PCWP Table 1B option 3)			
31	Limit methanol emissions to less than or equal to 1 ppmvd if uncontrolled emissions > 10 ppmvd (PCWP Table 1B option 4)			
32	Reduce formaldehyde emissions by 90 percent (PCWP Table 1B option 5)			
33	Limit formaldehyde emissions to less than or equal to 1 ppmvd if uncontrolled emissions > 10 ppmvd (PCWP Table 1B option 6)			

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9			**Comments**
10	Complete this question for process units where the Production Based Compliance Option (PBCO) is being used to demonstrate compliance with the PCWP NESHAP. Describe pollution prevention (P2) measures (if any) used to meet the PBCO. If the emission source is inherently low-emitting such that the PBCO is met without the use of pollution prevention measures, indicate "no P2 measures required."	Complete this column if you operate a process unit that meets the PBCO or reduces emissions as a debit source under the emissions averaging compliance option without using a control device. Such units are required under Table 2, row 5 of the PCWP NESHAP to monitor process unit controlling operating parameter(s) to demonstrate ongoing compliance. Identify the controlling operating parameter(s) in this column.	Optional. Enter any comments you have on the data supplied.
11	**If using the PBCO, list any pollution prevention measures employed to reduce HAP emissions below the PBCO limit**	**For process units meeting the PBCO or generating emissions averaging debits without using a control device, list the site-specific process unit controlling operating parameters used to demonstrate ongoing compliance with the PCWP NESHAP**	**Comments**
14	low-HAP resin formulation	resin HAP content records	The TCO in this example has two stacks so there are two emission release points.
15	no P2 measures required		Some examples are included in multiple fields unrelated columns for the sake of illustration only.
16			
17		zone 1 temperature, zone 2 temperature	Heated zones vent through a common duct leading to a vertical stack while the cooling zone is a fugitive source
24	low-HAP resin formulation		
25	no P2 measures required		
26	Other (specify)		
27			
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	A	B	C	D	E	F	G	H
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?				
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.				
3								
4								
5	**Every facility should complete this tab. Provide release point parameters for all of the release points at your facility.**							
6								
7								
8	**Tab: ReleasePt**							
9	**Survey Reference:**	**Pre-populated Data**					**Release Point Type**	**Process ID**
10	**Instruction:**	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab. Emission release points that appear more than once because they are associated with multiple process units are highlighted with **bold purple**. These will typically have the same emission release point parameters (release height, gas flow, lat/long coordinates, etc.) but may differ in SCC depending on the process unit type.	See the Instruction Document for information on how to classify release point types. Select from menu. Release types 08, 09, and 10 are for fugitive releases. All others (02 through 06) are considered to be stack releases. This column triggers black shading in columns to the right to clearly indicate which columns do not apply for each release point type.	Optional. Use this column to enter an optional "Process ID" if helpful to characterize or crosswalk the release point to other data sources.
11	**Field:**	**ICR ID**	**FRS Site ID**	**Process Unit ID**	**Process Unit Type**	**Emission Release Point ID**	**Emission Release Point Type**	**Process ID**
14	**Example entry:**	9999	999999999999	press1	Reconstituted wood product press	TCO stack 1	02 - Vertical	
15		9999	999999999999	press1	Reconstituted wood product press	TCO stack 2	02 - Vertical	
16		9999	999999999999	FBDry	Fiberboard mat dryer	FBsc01	02 - Vertical	
17		9999	999999999999	Dryer1	Rotary strand dryer	10	02 - Vertical	
18		9999	999999999999	Dryer2	Rotary strand dryer	10	02 - Vertical	
19		9999	999999999999	HVdryer2	Hardwood veneer dryer	1234	02 - Vertical	
20		9999	999999999999	BC	Reconstituted wood product board cooler	bc_wall_fan	08 - Fugitive Vent	
21		9999	999999999999	HVdryer2	Hardwood veneer dryer	cooling	09 - Fugitive Two-dimensional	Hvdryer2 cooling end
22		9999	999999999999	LumKiln	Lumber dry kiln	fugitives	10 - Fugitive Three-dimensional	N-end fugitives
24	1						02 - Vertical	
25	2						03 - Horizontal	
26	3						04 - Goose Neck	
27	4						05 - Vertical with Rain Cap	
28	5						06 - Downward-facing Vent	
29	6						08 - Fugitive Vent	
30	7						09 - Fugitive Two-dimensional	
31	8						10 - Fugitive Three-dimensional	
32	9							
33	10							

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9	**Source Classifications**		**Release Parameters**	
10	List the Source Classification Code (SCC) that best describes the combination of Process Unit and Release Point. A list of all the industry source classification codes is in the appendix of the instruction manual.	This is pre-populated based on the SCC code selected.	Enter the temperature of the exhaust gas exiting the stack or upon release from a Fugitive Vent (labeled 08 in column G). Fugitive Two-dimensional and Fugitive Three-dimensional sources (labeled 09 and 10 in column G) do not complete this column.	Enter the stack height. For fugitive emission sources, enter the height above ground where the fugitive emissions are released. Enter 1 ft for ground-level releases.
11	**SCC**	**SCC Description (Levels 3 and 4)**	**Exit Gas Temperature (F)**	**Release Height (ft)**
14	30700960	Medium Density Fiberboard (MDF) Manufacture -- Reconstituted Wood Products Press: Batch: Urea Formaldehyde Resin	350	100
15	30700960	Medium Density Fiberboard (MDF) Manufacture -- Reconstituted Wood Products Press: Batch: Urea Formaldehyde Resin	350	100
16	30701524	Fiberboard (FB) Manufacture -- Mat Dryer: Direct-heated: Asphalt binder: Mixed Softwood/Hardwood	180	76
17	30701009	Oriented Strandboard (OSB) Manufacture -- Rotary Strand Dryer: Direct Wood-fired: Softwood	250	55
18	30701009	Oriented Strandboard (OSB) Manufacture -- Rotary Strand Dryer: Direct Wood-fired: Softwood	250	55
19	30700754	Plywood Operations -- Hardwood Veneer Dryer: Direct Natural Gas-fired: Heated Zones	215	80
20	30700661	Particleboard Manufacture -- Board Cooler: Urea Formaldehyde Resin	90	30
21	30700754	Plywood Operations -- Hardwood Veneer Dryer: Direct Natural Gas-fired: Heated Zones		62
22	30700841	Sawmill Operations -- Lumber Kiln: Indirect-heated: Softwood: Pine Species		24
24	***[See Appendix 8 of the PCWP ICR Instructions]***			
25				
26				
27				
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9	**Stack Gas Parameters**						**Fugitive Parameters**	
10	Complete the stack gas parameter questions for all emission release point types labeled 02 to 06 in column G. You may use equivalent diameter if determined for non-circular stacks. For green-highlighted 08-fugitive vent rows, enter the required default diameter of 0.003 ft.	Select from menu whether the gas flow (acfm) provided in the next column is "measured" or "estimated." Select "not measurable/not estimated" if the gas flow cannot feasibly be measured or estimated. You may leave the gas flow rate blank in the next column if "not measurable/not estimated" is marked, but consider whether 08-Fugitive vent would be a better characterization for such emission points.	Provide gas flow rate in actual cubic feet per minute (ACFM) if the process unit vents through a conveyance. Enter a measured value if available. Otherwise an estimated or design value will suffice. Column may be blank if flow is "not measured/not estimated" in the previous column.	Provide the moisture in the exhaust gas stream if gas moisture has been measured (e.g., enter 15 for 15%). If gas moisture has not been measured you may leave this column blank.	Enter the exit gas velocity for stack releases labeled 02 to 06 in column G. Enter a measured value if available. Otherwise an estimated or design value will suffice. If you would like to calculate the value, you may copy/paste the formula provided in cell Q22 for this purpose. For green-highlighted 08-fugitive vent rows, enter the required default velocity of 0.0003 ft/sec.	Calculated (=ACFM/60)	Provide the Fugitive Length for Fugitive Three-dimensional emission release point types (labeled 10 in column G).	Provide the Fugitive Width for Fugitive Two-dimensional and Fugitive Three-dimensional emission release point types (labeled 09 and 10 in column G). Note that for Fugitive Three-Dimensional release points, the width must equal the length provided in the previous column.
11	**Stack Diameter (ft)**	**Gas Flow Basis**	**Average flow rate of gas stream (ACFM)**	**Measured percent moisture (by volume) in gas stream**	**Exit Gas Velocity (ft/sec)**	**Exit gas flow rate (cu ft/sec)**	**Fugitive Length (ft)**	**Fugitive Width (ft)**
14	3.5	measured	60,634	15	33.5	1011		
15	3.5	measured	58,258	15	32.2	971		
16	4	measured	41,564	28	23	693		
17	3.7	measured	97,000	19	35	1617		
18	3.7	measured	97,000	19	35	1617		
19	5.5	estimated	36,000	30	19.9	600		
20	0.003				0.0003	0		
21								28
22					=O22/60/(3.14*(M22/2)^2)		35	35
24		measured						
25		estimated						
26		not measurable/not estimated						
27								
28								
29						0		
30								
31								
32								
33								

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9	**Coordinates (Stack, Fugitive Vent, Fugitive Three-dimensional)**		**Coordinates (Fugitive Two-dimensional)**				**Comments**
10	If this information is not known, use mapping software (e.g., Google Maps) or a GPS to determine where the release points are on the facility premises to the 6th decimal point. Complete the X-Coordinate and Y-Coordinate columns for all release point types except those labeled 09 - Fugitive Two-dimensional in column G.	In addition, provide a facility emission point map that is an aerial view of the facility with all emission release point IDs (point and fugitive) clearly indicated. This map can be obtained from Google Maps or other mapping software. See the instructions document for an example.	Provide the two sets of coordinates for Fugitive Two-dimensional emission release point types only (labeled 09 in column G) in these four columns.				
11	**X-Coordinate (Longitude)**	**Y-Coordinate (Latitude)**	**First X-Coordinate for Fugitive Two-dimensional Release (Longitude)**	**First Y-Coordinate for Fugitive Two-dimensional Release (Latitude)**	**Second X-Coordinate for Fugitive Two-dimensional Release (Longitude)**	**Second Y-Coordinate for Fugitive Two-dimensional Release (Latitude)**	**Comments**
14	-86.470981	32.418725					Press goes to TCO with 2 stacks
15	-86.470979	32.418732					Press goes to TCO with 2 stacks
16	-86.470983	32.418740					Measured data preferred if available
17	-86.470968	32.418752					Two dryers to same emission release point
18	-86.470968	32.418752					Two dryers to same emission release point
19	-86.470985	32.418741					Dryer with multiple release points
20	-86.470981	32.418746					Wall fan nearest to board cooler
21			-86.470994	32.418728	-86.470994	32.418815	Dryer with multiple release points, 1 fugitive for cooling end vents all lumped together in 1 release
22	-86.470978	32.418761					Rectangular lumber kiln (70 ft long x 30 ft wide x 24 ft tall) with fugitives from roof vents and walls. Kiln was broken into North and South ends (35 ft long x approximately 35 ft wide) to be depicted as a fugitive 3D source.
24							
25							
26							
27							
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	A	B	C	D	E	F
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?		
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.		
3						
4						
5	**Every facility must provide a copy of their Operating Permit in a digital, searchable format.**					
6	**List each permitted process unit covered by PCWP that has an air pollution control device or a permit limit.**					
7						
8	**Tab: Permit**					
9	**Survey Reference:**	**Pre-populated Data**			**PCWP NESHAP Compliance Information**	
10	**Instruction:**	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab. The compliance option is associated with the most recent test. Note: Use the "wrap text" button on the Excel Home ribbon if prepopulated text is hard to see.	Select the compliance test method from the drop down menu. If more than one test method is used, please write in to edit the menu response.
11	**Field:**	**ICR ID**	**Process Unit ID**	**Process Unit Type**	**Which PCWP Compliance Option is referenced in the permit limits that apply to the process unit?**	**What test method was used in the most recent compliance test to demonstrate PCWP NESHAP compliance?**
14	**Example entry:**	9999	Press1	Reconstituted wood product press	Reduce formaldehyde emissions by 90 percent (PCWP Table 1B option 5)	NCASI Method ISS/FP-A105.01
15		9999	D-T1	Primary tube dryer	Reduce formaldehyde emissions by 90 percent (PCWP Table 1B option 5)	NCASI Method ISS/FP-A105.01
16		9999	FBDry	Fiberboard mat dryer	NA	
24	1					No Test Demonstration Required
25	2					EPA Method 316 (Formaldehyde)
26	3					SW-846 0011 (Formaldehyde)
27	4					EPA 25A (THC)
28	5					EPA 308 (Methanol)
29	6					NCASI Method CI/WP-98.01
30	7					NCASI Method IM/CAN/WP-99.02
31	8					NCASI Method ISS/FP-A105.01
32	9					Other: {specify}
33	10					

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9	**Non-PCWP NESHAP HAP permit limits**								
10	If your permit contains numeric emission limits for HAP other than the 6 PCWP HAP (acetaldehyde, acrolein, formaldehyde, methanol, phenol or propionaldehyde), please identify the HAP(s) with numeric limits in the "Other HAP" columns and specific the numeric limits. A menu listing HAPs is provided for convenience but may be overwritten.	Enter the number for the numerical HAP limit. For example, for a limit of 5 ppmdv, enter "5" and select ppmdv from the next column.	Select the units for the numerical HAP limit. Write in any units of measure not provided in the list. If HAP limits are provided in multiple formats, please provide limits (in order of preference) in the following units of measure: concentration, lb/production, mass/time. Be specific. For example, if concentration limits are specified as "ppm" or "ppmv" instead of "ppmdv," use the limits as specified in your permit.						
11	**Other HAP1**	**Other HAP1 numeric limit**	**Units for other HAP1 Limit**	**Other HAP2**	**Other HAP2 numeric limit**	**Units for other HAP2 Limit**	**Other HAP3**	**Other HAP3 numeric limit**	**Units for other HAP3 Limit**
14									
15	Mercury Compounds	0.0000005	lb/ODT	Lead Compounds	0.000008	lb/ODT			
16	Styrene	0.06	ppmdv						
24	***[See Appendix 9 of the PCWP ICR Instructions]***		ppmdv	***[See Appendix 9 of the PCWP ICR Instructions]***		ppmdv	***[See Appendix 9 of the PCWP ICR Instructions]***		ppmdv
25			ppm			ppm			ppm
26			mg/dscm			mg/dscm			mg/dscm
27			g/dscm			g/dscm			g/dscm
28			lb/ODT			lb/ODT			lb/ODT
29			lb/MSF 1/8"			lb/MSF 1/8"			lb/MSF 1/8"
30			lb/MSF 3/8"			lb/MSF 3/8"			lb/MSF 3/8"
31			lb/MSF 3/4"			lb/MSF 3/4"			lb/MSF 3/4"
32			lb/hr			lb/hr			lb/hr
33			ton/yr			ton/yr			ton/yr

	P	Q	R	S	T	U	V	W	X
1									
2									
3									
4									
5									
6									
7									
8									
9	**VOC Limits**			**PM Limits**					
10	Enter the number for the numerical VOC limit. For example, for a limit of 5 ppmdv, enter "5" and select ppmdv from the next column.	Select the units for the numerical limit. Write in any units of measure not provided in the list. If limits are provided in multiple formats, please provide limits (in order of preference) in the following units of measure: concentration, lb/production, mass/time. Be specific. For example, if concentration limits are specified as "ppm" or "ppmv" instead of "ppmdv," use the limits as specified in your permit.	Indicate if the permit identifies a specific measurement basis for the VOC limit (e.g., THC as C, THC as propane, Method 25A THC plus certain added HAP, etc.)	Provide the numeric value for the filterable PM limit in your permit, if applicable. Filterable PM is typically measured with EPA Method 5 (or similar method). If multiple PM permit limits are included in your permit for the process unit, please provide (in order of preference) the concentration limit (gr/dscf) or lb/production (lb/ODT or lb/MSF) limit format.	Select the units for any numerical filterable PM limit provided. If a diluent percentage is associated with the PM limit, write it in (e.g., gr/dscf @ 8% O2).	If your permit includes a limit for a specific PM size fraction (PM10 or PM2.5), provide the smallest size fraction included in the permit. If condensable PM (CPM) is included in the size-fraction limit, select: "Primary PM10" for PM10 + CPM or "Primary PM2.5" for PM2.5 + CPM.	Provide the numeric limit for the PM size fraction.	Select units for the size fraction PM limit provided. If a diluent percentage is associated with the PM limit, write it in (e.g., gr/dscf @ 8% O2).	Indicate if the permit identifies a specific measurement basis or compliance test for the size fraction PM limit. Select from list of common EPA methods or write in.
11	**Numeric VOC Limit**	**Units for Numeric VOC Limit**	**VOC limit basis**	**Filterable PM Limit Numeric Value**	**Filterable PM Limit Units**	**Smallest Size Fraction PM Limit**	**Size Fraction PM Limit Numeric Value**	**Size Fraction PM Limit Units**	**Size Fraction PM Compliance Test**
14	20	ppmdv	THC as C	0.02	gr/dscf				
15	20	ppmdv	THC as C	0.02	gr/dscf	PM10	0.02	gr/dscf	Method 201A
16	0.6	lb/MSF 1/2"	THC as C	10	tons/yr	PM2.5	8	tons/yr	Method 201A/Method 202
24		ppmdv	THC as C		gr/dscf	PM10		gr/dscf	Method 201
25		mg/dscm	THC as propane		g/dscm	PM2.5		g/dscm	Method 201A
26		g/dscm	Method 25A THC plus certain added HAP		lb/hr	CPM		lb/hr	Method 202
27		lb/ODT	Nonmethane VOC		tons/yr	Primary PM10		tons/yr	Method 201/Method 202
28		lb/MSF 1/8"	Other: {specify}			Primary PM2.5			Method 201A/Method 202
29		lb/MSF 3/8"							
30		lb/MSF 1/2"							
31		lb/MSF 3/4"							
32		lb/hr							
33		tons/yr							

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9	**Opacity Limits**		**Comments**
10	Provide the most stringent applicable opacity limit each process unit is subject to in percent (%).	Provide opacity measurement method and measurement frequency associated with the opacity limit provided (e.g., Method 9; continuous opacity monitoring system [COMS], Method 22)	Optional. Enter any comments you have on the data supplied.
11	**If an opacity limit applies, list the % opacity here**	**Opacity limit compliance test measurement method**	**Comments**
14	20	Method 9 (opacity)	
15	20	Method 9 (opacity)	
16	20	Method 9 (opacity)	
24		Method 9 (opacity)	
25		COMS	
26		Method 22 (visible fugitive emissions)	
27			
28			
29			
30			
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32			
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1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?					
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.					
3									
4									
5	**Complete this tab for products that contain resin.**								
6	**List key resin types used to manufacture the products included in the "Products" tab. If more than one type of resin is used to manufacture a product, list each resin on a separate row.**								
7									
8	**Tab: Resin**								
9	**Survey Reference:**	**Pre-populated Data**			**Resin and adhesive additives**				
10	**Instruction:**	Pre-populated data will appear once the Product Line has been selected.	Select the Product Line from the drop down menu for each resin you specify. Use multiple rows to specify multiple resin types, if needed. The drop down list of Product Lines is based on the Product Lines you specified in the Prod tab.	Pre-populated data will appear once the Product Line has been selected.	Supply a Resin ID for each type of resin used at the facility. The value entered here is carried forward through this spreadsheet.	Select from menu. Do not include waxes or other non-adhesive additives. Describe HAP scavengers by overwriting "specify" in the 'Other' drop down. PF: phenol-formaldehyde UF: urea-formaldehyde MF: melamine-formaldehyde MUF: melamine-urea-formaldehyde MDI: methylene diisocyanate PVA: polyvinyl acetate PRF: phenol/resorcinol formaldehyde Other {specify}: for HAP scavengers	Select face, core, or whole product. Select "whole product" if the same type of resin is used both the face and core of the product or for products with a different core material (e.g., plywood with a particleboard core).	Is the product subject to regulation under the CARB Air Toxic Control Measure (ATCM) or the Toxic Substance Control Act (TSCA) Formaldehyde Standards for Composite Wood Products Implementation Rule (40 CFR Part 770)? Affected products include: Particleboard, MDF and Hardwood Plywood. Exempted products include: Hardboard, Furniture Components (laminated products), OSB, Fiberboard, Engineered Wood Products (LVL, LSL, PSL, etc.) and Softwood Plywood.	Indicate whether resin is applied in powder or liquid form.
11	**Field:**	**ICR ID**	**Product Line**	**Product**	**Resin ID**	**Resin or Scavenger Type**	**Resin or HAP Scavenger used in the face, core, or whole product**	**CARB ATCM or TSCA formaldehyde standard applicability**	**Dry or Liquid resin**
14	**Example entry:**	9999	MDF-1	MDF	MUF101	UF	face	Both CARB and TSCA rule apply	liquid
15		9999	MDF-1	MDF	MDI102	MDI	core	Both CARB and TSCA rule apply	powdered
16		9999	SPW	Softwood plywood	PF103	PF	whole product		liquid
24	1		***[dynamic list based on Column D of the "Prod" tab]***			PF	face	CARB ATCM applies	powdered
25	2					UF	core	TSCA Implementation Rule applies	liquid
26	3					MF	whole product	Both CARB and TSCA rule apply	
27	4					MUF		Exempt	
28	5					MDI			
29	6					PRF			
30	7					Other: {specify}			
31	8								
32	9								
33	10								

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8									
9		**HAP Information**							**Comments**
10	Enter the total tons of resin solids used each year.	Enter the average percent solids by weight in the resin.	Enter the percent by weight of HAP. SDS sheets may be useful for determining the percent by weight. Enter a whole number for the percent (e.g., 50 for 50%). If the % by weight of HAP varies, enter the maximum %. Include the “less than” sign if HAP percent is reported as <X% in your SDS.				If additional HAP other than those listed in the previous columns are known to be contained in the resin, indicate the HAP name followed by the percent (%) by weight. Only list HAP present at 0.1% or greater. If necessary, enter more than one HAP separated by commas (e.g., benzene 0.5%, acetaldehyde 0.6%).		Optional. Enter any comments you have on the data supplied.
11	**Total annual resin solids usage (tons/yr)**	**Average resin percent solids by weight (%)**	**Formaldehyde percent by weight (%)**	**Methanol percent by weight (%)**	**Phenol percent by weight (%)**	**MDI percent by weight (%)**	**Other HAP**	**If lower HAP resins are available for this product, please specify barriers to using these resins.**	**Comments**
14	4,000	65	100	2	0	2		NA - lower HAP resins are not known to be available	
15	1,600	80	0	0	0.5	100	Methyl isocyanate 1.4%	NA - lower HAP resins are not known to be available	
16	15,000	70	80	3	100	0	Acetaldehyde 0.6%	NA - lower HAP resins are not known to be available	
24								NA - lower HAP resins are not known to be available	
25								Customer demand	
26								Market demand	
27								Incompatible with equipment/Runability issues: {explain}	
28								Resin cost: {explain}	
29								Inferior performance in product: {explain}	
30									
31									
32									
33									

	A	B	C	D	E	F	G	H	I	J	K
1	**OMB Control No:**	2060-0718			Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?						
2	**Expiration Date:**	10/31/2020			If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.						
3											
4											
5	**Complete this tab if your facility has resin storage tanks. Also, provide an electronic copy of the facility's most recent TANKS program emissions estimates (optional, if available).**										
6											
7											
8	**Tab: Tank**										
9	**Survey Reference:**	**Pre-Populated Data**				**Resin/Additive Storage Tanks**					
10	**Instruction:**	This is pre-populated to include resin storage tanks listed in the EquipDetail tab.	This is pre-populated to include resin storage tanks listed in the EquipDetail tab.	This is pre-populated to include resin storage tanks listed in the EquipDetail tab.	This is pre-populated to include resin storage tanks listed in the EquipDetail tab.	Select from the values provided in the Resin tab.	This is pre-populated from the Resin tab based on Product Trade Name/Number you select in the previous column of the Tank tab.	Tanks are assumed to be fixed roof tanks vented to the atmosphere. However, select from the menu or write in if a different type of tank is used.			
11	**Field:**	**ICR ID**	**Product Line**	**Product**	**Process Unit ID**	**Resin ID**	**Resin or Scavenger Type**	**Type of tank, if other than a fixed roof tank vented to atmosphere**	**Tank Capacity (gallons)**	**Tank Diameter (ft.)**	**Tank Height (ft.)**
14	**Example entry:**	9999	MDF-1	MDF	Tank 1	MUF101	UF		12,860	20	16
15		9999	MDF-1	MDF	Tank 2	MDI102	MDI	Fixed roof vessel vented to control device	18,000	27	24
16		9999	SPW	Softwood plywood	Tank 1	PF103	PF		8,500	16	12
24	1					***[dynamic list based on Column E of the "Resin" tab]***		Portable (such as a tote)			
25	2							Fixed roof vessel vented to control device			
26	3							Fixed roof vessel using vapor balancing			
27	4							External floating roof with slotted guidepole			
28	5							External floating roof with solid guidepole			
29	6							External floating roof with controlled guidepole			
30	7							Internal floating roof with slotted guidepole			
31	8							Internal floating roof with solid guidepole			
32	9							Internal floating roof with controlled guidepole			
33	10							External floating roof with geodesic dome roof			
34	11							Horizontal vessel			

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9					**Comments**
10				State temperature. If ambient temperature, enter "ambient."	Optional. Enter any comments you have on the data supplied.
11	**Maximum Liquid Height (ft.)**	**Estimate Annual throughput (gallons/year)**	**Type of vapor recovery system used (if any)**	**Tank Temperature (F)**	**Comments**
14	12	4,851,000	None	ambient	
15	20	6,300,000	None	ambient	
16	8	2,700,000	None	ambient	
24			None	ambient	
25			Absorber		
26			Adsorber		
27			Condensation		
28			Incineration {insert incinerator APCD ID}		
29			NA		
30					
31					
32					
33					
34					

	A	B	C	D	E	F	G	H	I
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?					
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.					
3									
4									
5	**Complete this tab if your facility operates a hardwood or softwood veneer dryer.**								
6									
7									
8	**Tab: VeneerDry**								
9	**Survey Reference:**	**Pre-populated Data**				**Veneer Dryer Equipment Information**			
10	**Instruction:**	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	Indicate if the dryer is "direct-fired" in which hot combustion gases come into contact with the wood furnish, or "indirect-fired" (typically steam-heated where combustion gases do not come into contact with the wood). Also complete the DFDryFuel tab for direct-fired dryers.	Enter the year the process unit was installed.	Enter the 2016 dryer throughput in thousand square feet per year (MSF/yr on a 3/8-inch basis) for veneer dryers and redryers. Note: You may use MSF/yr for fine veneers with no thickness basis. Provide the unit of measure selected in the next column.	Select the Unit of Measure for the 2016 Dryer throughput. The preferred unit of measure is MSF/yr 3/8"
11	**Field:**	**ICR ID**	**Process Unit Type**	**Process Unit ID**	**Product Line**	**Firing Method**	**Installation Year**	**2016 Dryer Throughput**	**2016 Dryer Throughput Unit of Measure**
14	**Example entry:**	9999	Softwood Veneer Dryer	SVDry-1	SV1	**Direct-fired**	1987	100,000	MSF/yr 3/8"
15		9999	Softwood Veneer Dryer	SVDry-2	SV2	**Indirect-fired**	1987	80,000	MSF/yr 3/8"
16		9999	Softwood Veneer Dryer	ReDry-1	SV2	**Radio-frequency**	1987	80,000	MSF/yr 3/8"
17		9999	Hardwood Veneer Dryer	HVDry-1	HPW1	**Indirect-fired**	1990	70,000	MSF/yr 3/8"
24	1					**Direct-fired**			MSF/yr 3/8"
25	2					**Indirect-fired**			MSF/yr
26	3					**Radio-frequency**			
27	4								
28	5								
29	6								
30	7								
31	8								
32	9								
33	10								

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9						**Dryer Material and Operating Parameters**			
10	Select the most typical 2016 operational hours per day for the dryer. Either select an option from the drop down menu (24, 16, 12 or 8 hour operation) or enter the unique specific operating practice.	Select type of veneer dryer (jet, longitudinal, crossflow, etc.) or write in.	Enter the number of heated zones	Select the general species dried throughout the year.	Estimated percentage by weight of hardwood species dried. (The remainder will be assumed to be softwood species.)	For dryers processing both hardwood and softwoods, indicate if hardwoods and softwoods are typically dried at the same time (simultaneously) or if hardwoods are processed separately from softwoods (at different times under different operating conditions). Leave blank for dryers processing all hardwoods or all softwoods.	Enter target dryer outlet moisture content (oven dry basis).	Enter the maximum target veneer drying temperature in the heated zones in Fahrenheit (F)	Describe any work practices and operational practices (beyond original equipment design) used to balance/reduce the airflow through the heated zones facilitate gas recycling, volume control and/or energy efficiency. Use the comments column to the right if more than 255 characters are needed.
11	**Normal Operational Hours**	**Type of veneer dryer**	**Number of veneer dryer heated zones**	**Species dried**	**Hardwood Species (%)**	**Are hardwood and softwood species typically dried at the same time?**	**Target Dryer Outlet Moisture Content (%)**	**Maximum target drying temperature (F)**	**Are any practices beyond equipment design used to balance/reduce airflow through the heated zones or improve energy efficiency?**
14	24 hours	jet	3	western softwoods	10	HW and SW dried separately	25	360	Continuous temperature and air flow monitoring within zones
15	24 hours	longitudinal	3	hardwoods	100		25	535	
16	8 hours (e.g., one 8 hour shift)	RF	1	southern pines	10	HW and SW dried simultaneously	6	300	
17	16 hours (e.g., two 8 hour shifts)	crossflow	2	hardwoods	100		4	320	
24	24 hours	jet		western softwoods		HW and SW dried simultaneously			
25	16 hours (e.g., two 8 hour shifts)	longitudinal		hardwoods		HW and SW dried separately			
26	12 hours (e.g., one 12 hour shift)	crossflow		southern pines					
27	8 hours (e.g., one 8 hour shift)	radio frequency							
28									
29									
30									
31									
32									
33									

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9	**Exhaust Gas Recycling and Control Volume**				**Cooling zones**		
10	For direct-fired dryers, enter the percentage (by volume) of the total dryer outlet exhaust gases from all zones combined that are recycled to the inlet blend chamber of the dryer. Use "NA" for steam heated dryers or dryers without blend chambers.	For dryers with add-on APCDs, enter the volume percent of exhaust gas from heated zones that is discharged through the control device. This would typically be 100% of the exhaust gas volume for most dryers. However, if less than 100% please explain in the next column. Enter "NA-uncontrolled" if your dryer does not have an APCD.	For dryers with add-on APCDs, please explain if less than 100% of the dryer exhaust gas volume from the heated zones is discharged through the dryer control device. Indicate volume percent of exhaust gases that are routinely discharged to the atmosphere without passing through a control device. Do not include cooling zones in your percentage calculation.	Provide a brief description of the exhaust flow configuration if all heated zones are not routed to the same APCD. Enter "NA" if no APCD is used. Leave blank if 100% of heated zone gases are routed to a control device	Enter the number of cooling zone exhaust vents. Do not count inlet air vents.	Enter the volume percent of exhaust gases from the veneer dryer cooling zone that are captured and routed to a control device. Enter "0" for 0% (if the cooling zone exhaust gases are not captured and routed to a control device.) If the volume of cooling zone exhaust gases has been measured or estimated, include the gas flow rate in the ReleasePt tab. If HAP emissions have been measured from cooling zones, enter emissions test in the EmTest tab.	Describe any work practices or other measures with potential to limit HAP emissions from the cooling zone.
11	**Recycled Exhaust Gases (volume %)**	**Percent of exhaust gas volume discharged through control device**	**Explanation if less than 100% of gas volume is controlled**	**Explain if all heated zones are not routed to the same APCD**	**How many exhaust vents are in the cooling zone?**	**What percentage of cooling zone exhaust gases are captured and controlled?**	**Work practices or methods with potential to limit cooling zone HAP emissions**
14	0	100		Zone 1-2 go to RTO 1; Zone 3 goes to boiler B1	4	0	None
15	0	100			6	0	Ensure heated zone 3 exhaust does not carry over to cooling zone through dryer internal design
16	0	0			0	0	NA
17		NA-uncontrolled			4	0	None
24							
25							
26							
27							
28							
29							
30							
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9	**Veneer Redryers and Redrying in Conventional Dryers**							**Comments**
10	Is the conventional veneer dryer listed on this row used to redry veneer? Indicate yes or no.	If a conventional veneer dryer is used to redry veneer, indicate the operating hours per year that the dryer is processing veneer that requires redrying.	If a conventional veneer dryer is used to redry veneer, indicate the MSF 3/8" per year that is redried.	Enter the typical moisture content of veneer to be redried in percent, by weight on a dry basis	Enter the highest zone temperature used to redry veneer in conventional veneer dryers	For veneer redryers only, enter the length of the drying cycle.	For veneer redryers that are batch dryers such as veneer kilns, enter the number of batch cycles per year in 2016	Optional. Enter any comments you have on the data supplied.
11	**Conventional veneer dryer used as a redryer**	**If the veneer dryer is periodically used as a redryer, indicate operating hours per year processing redry veneer (hr/yr)**	**Conventional veneer dryer redry throughput (MSF/yr 3/8")**	**Inlet moisture content of redry veneer, % (by weight, dry basis)**	**Redry temperature (F) in the hottest zone**	**Drying cycle (hours)**	**Number of batch cycles per year**	**Comments**
14								
15	Yes	520	10,000	20	250			
16						2	640	
17								
24	Yes							
25	No							
26								
27								
28								
29								
30								
31								
32								
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1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?							
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.							
3											
4											
5	**Complete this tab if your facility operates rotary strand dryers, green rotary dryers, dry rotary dryers, or rotary agricultural fiber dryers.**										
6											
7											
8	**Tab: RotaryDry**										
9	**Survey reference:**	**Pre-populated Data**				**Rotary Dryer Equipment Information**					
10	**Instruction:**	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	Indicate if the dryer is "direct-fired" in which hot combustion gases come into contact with the wood furnish, or "indirect-fired" (typically steam-heated where combustion gases do not come into contact with the wood). Also complete the DFDryFuel tab for direct-fired dryers.	Select the number of dryer passes: single, double, triple, quadruple	Enter the year the process unit was installed.	Enter the 2016 dryer throughput in oven dried tons per year (ODT/yr)	Select the most typical 2016 operational hours per day for the dryer. Either select an option from the drop down menu (24, 16, 12 or 8 hour operation) or enter the unique specific operating practice.	If known, estimated percentage by weight of hardwood species dried. (The remainder will be assumed to be softwood species.)
11	**Field:**	**ICR ID**	**Process Unit Type**	**Process Unit ID**	**Product Line**	**Firing method**	**Number of passes**	**Installation Year**	**2016 Dryer Throughput (ODT/yr)**	**Normal Operational Hours**	**Hardwood Species (%)**
14	**Example entry:**	9999	Green Rotary Dryer	GDry-1	Green-1	**Direct-fired**	single	1987	100,000	24 hours	10
15		9999	Dry Rotary Dryer	DRDry-2	Dry-2	**Direct-fired**	triple	1987	80,000	24 hours	10
16		9999	Rotary Strand Dryer	StrandDry-1	Dry-1	**Direct-fired**	triple	1995	80,000	24 hours	0
24	1					**Direct-fired**	single			24 hours	
25	2					**Indirect-fired**	double			16 hours (e.g., two 8 hour shifts)	
26	3						triple			12 hours (e.g., one 12 hour shift)	
27	4						quadruple			8 hours (e.g., one 8 hour shift)	
28	5										
29	6										
30	7										
31	8										
32	9										
33	10										
34	11										

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9		**Dryer Material and Operating Parameters**					**Exhaust Gas Recycling and Control Volume**		
10	For dryers processing both hardwood and softwoods, indicate if hardwoods and softwoods are typically dried at the same time (simultaneously) or if hardwoods are processed separately from softwoods (at different times under different operating conditions). Leave blank for dryers processing all hardwoods or all softwoods.	Select from menu	For particleboard rotary dryers, typical furnish inlet moisture content (oven dry basis).	For all rotary dryers, enter target dryer outlet moisture content (oven dry basis).	Note whether this is the final dryer in the drying process. For example, if this is a primary tube dryer "D1" followed by a secondary tube dryer "D2", enter "D2" as the process unit ID for the subsequent dryer.	Enter the maximum dryer inlet operating temperature to which the wood furnish is exposed.	Enter the percentage of dryer outlet exhaust gases that are recycled to the dryer burner.	For dryers with add-on APCDs, enter the volume percent of exhaust gas that is discharged through the control device. This is typically 100% of the exhaust gas volume for most dryers. However, if less than 100% please explain in the next column. Enter "work practice" if dryer complies with the PCWP work practice for dry rotary dryers and does not exhaust to a HAP APCD.	For dryers with add-on air pollution control devices, please explain if less than 100 percent of the dryer exhaust gas volume is discharged through the dryer control device. Indicate volume percent of exhaust gases that are routinely discharged to the atmosphere without passing through a control device.
11	**Are hardwood and softwood species typically dried at the same time?**	**Are resins, waxes, or other HAP-containing materials added prior to drying?**	**Typical Dryer Inlet Moisture Content Range (%)**	**Target Dryer Outlet Moisture Content (%)**	**If this dryer is not the final dryer in the drying process, provide the Process Unit ID of any dryer(s) that follow this dryer prior to pressing?**	**Maximum Dryer Inlet Operating Temperature (F)**	**Exhaust Gases Recycled to Dryer Burner (volume %)**	**Percent of exhaust gas volume discharged through control device**	**Explanation if less than 100% of gas volume is controlled**
14	HW and SW dried simultaneously	No	50-60	25	Dry-2	600	0	100	
15	HW and SW dried separately	No	90-100	5	final	330	0	work practice	
16		No	>100	6	final	1000	0		
24	HW and SW dried simultaneously	No	>100						
25	HW and SW dried separately	Yes - Resin	90-100						
26		Yes - Resin and Wax	80-90						
27			70-80						
28			60-70						
29			50-60						
30			40-50						
31			30-40						
32			20-30						
33			<20						
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9		**Comments**
10	Describe any work practices, for example, to prevent overdrying, or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency. Use the comments column to the right if more than 255 characters are needed.	Optional. Enter any comments you have on the data supplied.
11	**Describe any work practices or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency.**	**Comments**
14		
15	variable-flow natural gas burners	
16		
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25		
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1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?							
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.							
3											
4											
5	**Complete this tab if your facility operates single-stage and multi-stage tube dryers at hardboard, MDF, or particleboard mills.**										
6											
7											
8	**Tab: TubeDry**										
9	**Survey reference:**	**Pre-populated Data**				**Tube Dryer Equipment Information**					
10	**Instruction:**	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	Indicate if the dryer is "direct-fired" in which hot combustion gases come into contact with the wood furnish, or "indirect-fired" (typically steam-heated where combustion gases do not come into contact with the wood). Also complete the DFDryFuel tab for direct-fired dryers.	Enter the year the process unit was installed.	Enter the 2016 dryer throughput in oven dried tons per year (ODT/yr)	Select the most typical operational 2016 hours per day for the dryer. Either select an option from the drop down menu (24, 16, 12 or 8 hour operation) or enter the unique specific operating practice.	If known, estimated percentage by weight of hardwood species dried. (The remainder will be assumed to be softwood species.)	For dryers processing both hardwood and softwoods, indicate if hardwoods and softwoods are typically dried at the same time (simultaneously) or if hardwoods are processed separately from softwoods (at different times under different operating conditions). Leave blank for dryers processing all hardwoods or all softwoods.
11	**Field:**	**ICR ID**	**Process Unit Type**	**Process Unit ID**	**Product Line**	**Firing method**	**Installation Year**	**2016 Dryer Throughput (ODT/yr)**	**Normal Operational Hours**	**Hardwood Species (%)**	**Are hardwood and softwood species typically dried at the same time?**
14	**Example entry:**	9999	Primary Tube Dryer	Dry-1	HB1	**Direct-fired**	1987	100,000	24 hours	10	HW and SW dried simultaneously
15		9999	Primary Tube Dryer	Dry-2	HB2	**Direct-fired**	1987	80,000	24 hours	10	HW and SW dried separately
16		9999	Primary Tube Dryer	Dry-1	MDF1	**Direct-fired**	1995	70,000	24 hours	0	
17		9999	Secondary Tube Dryer	Dry-2	MDF1	**Indirect-fired**	1995	70,000	24 hours	0	
24	1					**Direct-fired**			24 hours		HW and SW dried simultaneously
25	2					**Indirect-fired**			16 hours (e.g., two 8 hour shifts)		HW and SW dried separately
26	3								12 hours (e.g., one 12 hour shift)		
27	4								8 hours (e.g., one 8 hour shift)		
28	5										
29	6										
30	7										
31	8										
32	9										
33	10										

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9	**Dryer Material and Operating Parameters**					**Exhaust Gas Recycling and Control Volume**				**Comments**
10	Select from menu	Typical furnish inlet moisture content (oven dry basis).	Enter target dryer outlet moisture content (oven dry basis).	For tube dryers that are part of a series of dryers, indicate the dryer Process Unit IDs in order of the drying sequence. For example, for primary tube dryer identified as D1 and secondary tube dryer identified as D2, enter "D1 - D2."	Enter maximum or typical dryer inlet operating temperature	Enter the percentage of dryer outlet exhaust gases that are recycled to the dryer burner.	For dryers with add-on APCDs, enter the volume percent of exhaust gas that is discharged through the control device. This is typically 100% of the exhaust gas volume for most dryers. However, if less than 100% please explain in the next column.	For dryers with add-on air pollution control devices, please explain if less than 100 percent of the dryer exhaust gas volume is discharged through the dryer control device. Indicate volume percent of exhaust gases that are routinely discharged to the atmosphere without passing through a control device.	Describe any work practices, for example, to prevent overdrying, or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency. Use the comments column to the right if more than 255 characters are needed.	Optional. Enter any comments you have on the data supplied.
11	**Are resins, waxes, or other HAP-containing materials added prior to drying?**	**Typical Dryer Inlet Moisture Content Range (%)**	**Target Dryer Outlet Moisture Content (%)**	**Dryer Sequence for Tube Dryers in Series**	**Maximum Dryer Inlet Operating Temperature (F)**	**Exhaust Gases Recycled to Dryer Burner (volume %)**	**Percent of exhaust gas volume discharged through control device**	**Explanation if less than 100% of gas volume is controlled**	**Describe any work practices or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency.**	**Comments**
14	Yes - Resin	50-60	25	Dry-1	600	0	80	20% of exhaust goes to Dry-2		
15	Yes - Resin and Wax	50-60	5	Dry-2	330	0	100			
16	No	40-50	20	Dry-1	400	10	100			
17	No	<20	3	Dry-1 - Dry-2	250	10	100			
24	No	>100								
25	Yes - Resin	90-100								
26	Yes - Resin and Wax	80-90								
27		70-80								
28		60-70								
29		50-60								
30		40-50								
31		30-40								
32		20-30								
33		<20								

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1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?							
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.							
3											
4											
5	**Complete this tab if your facility operates conveyor strand dryers.**										
6											
7											
8	**Tab: ConvDry**										
9	**Survey reference:**	**Pre-populated Data**				**Conveyor Dryer Equipment Information**					
10	**Instruction:**	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	Indicate if the dryer is "direct-fired" in which hot combustion gases come into contact with the wood furnish, or "indirect-fired" (typically steam-heated where combustion gases do not come into contact with the wood). Also complete the DFDryFuel tab for direct-fired dryers.	Enter the year the process unit was installed.	Enter the 2016 dryer throughput in oven dried tons per year (ODT/yr)	Select the most typical 2016 operational hours per day for the dryer. Either select an option from the drop down menu (24, 16, 12 or 8 hour operation) or enter the unique specific operating practice.	Estimated percentage by weight of hardwood species dried. (The remainder will be assumed to be softwood species.)	For dryers processing both hardwood and softwoods, indicate if hardwoods and softwoods are typically dried at the same time (simultaneously) or if hardwoods are processed separately from softwoods (at different times under different operating conditions). Leave blank for dryers processing all hardwoods or all softwoods.
11	**Field:**	**ICR ID**	**Process Unit Type**	**Process Unit ID**	**Product Line**	**Firing method**	**Installation Year**	**2016 Dryer Throughput (ODT/yr)**	**Normal Operational Hours**	**Hardwood Species (%)**	**Are hardwood and softwood species typically dried at the same time?**
14	**Example entry:**	9999	Conveyor strand dryer	Convey-1	EWP-1	**Indirect-fired**	1998	100,000	24 hours	10	HW and SW dried simultaneously
15		9999	Conveyor strand dryer	StrandDry-1	OSB line 1	**Indirect-fired**	1995	80,000	24 hours	0	
24	1					**Direct-fired**			24 hours		HW and SW dried simultaneously
25	2					**Indirect-fired**			16 hours (e.g., two 8 hour shifts)		HW and SW dried separately
26	3								12 hours (e.g., one 12 hour shift)		
27	4								8 hours (e.g., one 8 hour shift)		
28	5										
29	6										
30	7										
31	8										
32	9										
33	10										

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3											
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6											
7											
8											
9	**Dryer Material and Operating Parameters**								**Exhaust Gas Recycling and Control Volume**		
10	Enter target dryer outlet moisture content (oven dry basis).		Select APCD type from menu					Describe additional zones if present by length, APCD type, and operating temperature if heat is applied (e.g., 150F).	Enter the percentage (by volume) of the total dryer outlet exhaust gases from all zones combined that are recycled to the dryer burner.	For dryers with add-on APCDs, enter the volume percent of exhaust gas that is discharged through the control device. This would typically be 100% of the exhaust gas volume for most dryers. However, if less than 100% please explain in the next column.	For dryers with add-on APCDs, please explain if less than 100% of the dryer exhaust gas volume is discharged through the dryer control device. Indicate volume percent of exhaust gases that are routinely discharged to the atmosphere without passing through a control device.
11	**Target Dryer Outlet Moisture Content (%)**	**Zone 1 temperature (F)**	**Zone 1 APCD type**	**Zone 2 temperature (F)**	**Zone 2 APCD type**	**Zone 3 Temperature (F)**	**Zone 3 APCD type**	**Additional Zone Information**	**Exhaust Gases Recycled to Dryer Burner (volume %)**	**Percent of exhaust gas volume discharged through control device**	**Explanation if less than 100% of gas volume is controlled**
14	25	330	None	330	None				0	NA	NA
15	6	235	RCO	220	RCO	30	None	Zone 4 (cooling), 20 ft, No APCD, 100F	0	70	30% of gas flow from the dryer is from the uncontrolled cooling zone
24			***[See Section D3c of the PCWP ICR Instructions for the 18 options in this drop-down menu]***		***[See Section D3c of the PCWP ICR Instructions for the 18 options in this drop-down menu]***		***[See Section D3c of the PCWP ICR Instructions for the 18 options in this drop-down menu]***				
25											
26											
27											
28											
29											
30											
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33											

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9		**Comments**
10	Describe any work practices, for example, to prevent overdrying, or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency. Use the comments column to the right if more than 255 characters are needed.	Optional. Enter any comments you have on the data supplied.
11	**Describe any work practices or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency.**	**Comments**
14		
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	A	B	C	D	E	F	G	H	I	J
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?						
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.						
3										
4										
5	**Complete this tab if your facility has fiber washers, fiberboard mat dryers (wood or agricultural fiber), press predryers, hardboard ovens, and hardboard humidifiers. Note that hardboard tube dryers should be reported in the TubeDry tab.**									
6										
7										
8	**Tab: FB-HB**									
9	**Survey reference:**	**Pre-populated Data**			**Hardboard Fiberboard Process Information**					
10	**Instruction:**	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	Enter the year the process unit was installed	Select from the following: wet process (wet forming/wet pressing); wet/dry process (wet forming/dry pressing); dry process (dry forming/dry pressing); or wet-formed fiberboard (no pressing)	Enter the process unit throughput in units of thousand square feet per year (MSF/yr). Enter thickness basis, 1/2" for fiberboard, 1/8" for hardboard in next column.	Enter thickness basis for previous column: 1/2" (0.5) for fiberboard, 1/8" (0.125) for hardboard.	If known, estimated percentage by weight of hardwood species dried. (The remainder will be assumed to be softwood species.)	For dryers processing both hardwood and softwoods, indicate if hardwoods and softwoods are typically dried at the same time (simultaneously) or if hardwoods are processed separately from softwoods (at different times under different operating conditions). Leave blank for dryers processing all hardwoods or all softwoods.
11	**Field:**	**ICR ID**	**Process Unit ID**	**Process Unit Type**	**Installation Year**	**Hardboard-Fiberboard Process**	**Annual Throughput (MSF/yr)**	**Thickness basis for previous column (inches)**	**Hardwood Species (%)**	**Are hardwood and softwood species typically dried at the same time?**
14	**Example entry:**	9999	HBWetForm-1	Former	1972	wet process (wet forming/wet pressing)	100,000	0.125	10	
15		9999	HBDryForm-1	Former	1972	dry process (dry forming/dry pressing)	200,000	0.125	10	
16		9999	FBForm-1	Former	1965	wet-formed fiberboard (no pressing)	75,000	0.5	10	
17		9999	MatDry-1	Fiberboard mat dryer	1984	wet/dry process (wet forming/dry pressing)	100,000	0.125	10	HW and SW dried simultaneously
18		9999	PreDry-1	Hardboard press predryer	1984	wet/dry process (wet forming/dry pressing)	200,000	0.125	0	
24	1					wet process (wet forming/wet pressing)		0.125		HW and SW dried simultaneously
25	2					dry process (dry forming/dry pressing)		0.5		HW and SW dried separately
26	3					wet/dry process (wet forming/dry pressing)				
27	4					wet-formed fiberboard (no pressing)				
28	5									
29	6									
30	7									
31	8									
32	9									
33	10									

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8											
9			**Fiber Washers**	**Dryer/Oven Firing Method**	**Fiberboard Mat Dryers, Hardboard Press Predryers**		**Hardboard Bake Ovens, Humidifiers**				
10	List any resins applied before or during processing in the process unit.		Specify the fiber washer type (write in)	For dryers, predryers, and ovens: Indicate if heat supplied to the unit is "direct-fired" in which hot combustion gases come into contact with the wood furnish, or "indirect-fired" (typically steam-heated where combustion gases do not come into contact with the veneer). Also Complete the DF Dryer Fuel tab for direct-fired units.	Target moisture content of the board at the outlet of the dryer (%-dry basis).	Enter maximum dryer operating temperature for fiberboard mat dryers, press predryers, and hardboard ovens.	Specify type of tempering oil		Enter the number of heated zones	Enter the length of the batch cycle for hardboard ovens or hardboard humidifiers. For example, length of bake cycle for hardboard bake ovens, or length of humidification cycle for hardboard humidifiers	Enter the number of batch cycles per year
11	**List resin applied before or during processing**	**Other than adhesives, list any other HAP containing additives in the process.**	**Fiber Washer Type**	**Firing method**	**Target Dryer Outlet Moisture Content (%)**	**Maximum Dryer Inlet Operating Temperature (F)**	**Tempering oil applied prior to bake oven**	**Batch or Continuous**	**Number of heated zones**	**Batch cycle (hours)**	**Number of batch cycles per year**
14	PF										
15	PF										
16	None		Vacuum drum				linseed oil	Batch	2	4	340
17	PF	wax		Direct-fired	8	350					
18	PF			Indirect-fired	30	400					
24	PF			Direct-fired				Batch			
25	Starch			Indirect-fired				Continuous			
26	None										
27											
28											
29											
30											
31											
32											
33											

	V	W	X	Y	Z	AA
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3						
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9		**Dryer/Oven Exhaust Gas Recycling and Control Volume**				**Comments**
10		Enter the percentage (by volume) of the outlet exhaust gases that are recycled to the burner.	For units with add-on air pollution control devices, enter the volume percent of exhaust gas that is discharged through the control device. This would typically be 100% of the exhaust gas volume for most units However, if less than 100% please explain in the next column. Enter "NA" if your oven does not have an air pollution control device.	For units with add-on air pollution control devices, please explain if less than 100 percent of the exhaust gas volume is discharged through the control device. Indicate volume percent of exhaust gases that are routinely discharged to the atmosphere without passing through a control device.	Describe any work practices, for example, to prevent overdrying, or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency. Use the comments column to the right if more than 255 characters are needed.	Optional. Enter any comments you have on the data supplied.
11	**Maximum operating temperature in 2016 (F)**	**Exhaust Gases Recycled to Burner (volume %)**	**Percent of exhaust gas volume discharged through control device**	**Explanation if less than 100% of gas volume is controlled**	**Describe any work practices or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency.**	**Comments**
14						
15						
16	250					
17		0				
18		25	NA	Exhaust recycled for heat recovery only	Return some exhaust gas to burner	
24						
25						
26						
27						
28						
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	A	B	C	D	E	F	G	H	I	J
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?						
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.						
3										
4										
5	**Complete this tab if your facility has lumber dry kilns.**									
6	**Attach copy of lumber dry kiln schedules used (see column AE).**									
7										
8	**Tab: LKiln**									
9	**Survey reference:**	**Pre-populated Data**		**Lumber Kiln Information**				**Lumber Processing information**		
10	**Instruction:**	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	Enter kiln type from drop down menu or write the kiln type into the "other (specify)" drop down selection	Indicate if heat supplied to the unit is "direct-fired" in which hot combustion gases come into contact with the wood furnish, or "indirect-fired" (typically steam-heated where combustion gases do not come into contact with the wood). Also Complete the DFDryFuel tab for direct-fired units.	Enter the year the process unit was installed	Enter the 2016 throughput in thousand board feet per year (MBF/yr) across all species dried in the kiln.	Select the general species dried in the kiln throughout the year.	Enter target dry lumber outlet moisture content on an oven dry basis	Describe the method(s) by which the change in the lumber moisture content reduction is monitored. Select from menu or write in.
11	**Field:**	**ICR ID**	**Process Unit ID**	**Batch or continuous**	**Firing method**	**Installation Year**	**2016 Kiln Throughput (MBF/yr)**	**Species**	**Target Lumber Outlet Moisture Content (% dry basis)**	**How is moisture reduction monitored?**
14	**Example entry:**	9999	Kiln-1	Batch	**Direct-fired**	1996	100,000	western softwoods	30	Continuous moisture monitoring
15		9999	Kiln-2	Batch	**Direct-fired**	2005	80,000	western softwoods	15	Continuous wet and dry bulb temperature monitoring
16		9999	Kiln-3	Batch	**Indirect-fired**	2005	24,000	hardwoods	25	Manual lumber sampling only
17		9999	ContKiln-1	Continuous	**Indirect-fired**	2010	150,000	southern pines	10	Continuous moisture monitoring
24	1			Batch	**Direct-fired**			western softwoods		Continuous moisture monitoring
25	2			Continuous	**Indirect-fired**			hardwoods		Continuous wet and dry bulb temperature monitoring
26	3				**Electric Dehumidification Kiln**			southern pines		Both continuous moisture and temperature monitoring
27	4									Manual lumber sampling only
28	5									No continuous monitoring
29	6									Other: {describe}
30	7									
31	8									
32	9									
33	10									

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8											
9	**Batch kilns**					**Continuous kilns**				**Kiln Dimensions**	
10	Enter the design kiln capacity in MBF per charge.	Enter the batch kiln charges during 2016.	Enter the minimum batch kiln cycle time during 2016.	Enter the maximum batch kiln cycle time during 2016.	List the maximum target dry bulb temperature in the drying schedule.	Enter the hours per year the continuous kiln operated in 2016	Enter the minimum residence time of lumber dried in the continuous kiln. Residence time is the time from when the lumber enters the kiln until it exits (from kiln inlet opening to exit opening).	Enter the maximum residence time of lumber dried in the continuous kiln.	List the maximum target temperature in the drying schedule.	Enter kiln outer dimensions	
11	**Design Kiln Capacity, (MBF per charge)**	**Number of kiln charges dried per year**	**Minimum kiln drying cycle length in 2016 (hours)**	**Maximum kiln drying cycle length in 2016 (hours)**	**Maximum target dry-bulb temperature (F)**	**Continuous kiln operating time in 2016 (hr/yr)**	**Minimum kiln residence time, (hours)**	**Maximum kiln residence time (hours)**	**Maximum target dry-bulb temperature (F)**	**Kiln length, ft**	**Kiln width, ft**
14	357	280	16	32	310					90	36
15	275	290	20	48	300					66	42
16	218	110	60	80	225					72	34
17						8700	14	28	400	60	24
24											
25											
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9	**Kiln Exhaust Flow Configuration**						
10		Enter yes or no.	Select from menu or write in a description of kiln exhaust flow patterns	Enter yes or no. If yes, please describe any pertinent details related to the kiln exhaust gas collection system such as gas flow rate, etc. as part of your response.	If costs of a kiln exhaust gas collection system have been explored, enter the capital cost estimated for the collection system. If no estimate has been made, enter unknown (UK).	If costs of a kiln exhaust gas collection system have been explored, enter the operating cost estimated for the collection system.	If operating costs are provided, describe the different elements of the operating costs (fan electricity, etc.)
11	**Number of kiln exhaust vents**	**Does kiln exhaust flow oscillate between vents such that emission points change as the kiln cycle progresses (fans reverse)?**	**Is the exhaust from individual kiln vents captured or collected in a common duct or vented directly to the atmosphere?**	**Has the facility explored the feasibility and/or cost of collecting kiln vent gases into a common duct? If yes, describe the collection system.**	**Capital cost estimate for kiln exhaust collection system, $**	**Operating cost estimate for the collection system, $/yr**	**Description of operating costs**
14	36	Yes	vented to atmosphere	No			
15	18	Yes	vented to atmosphere	No			
16	20	Yes	collected in a common duct	No			
17	40	No	collected in a common duct	Yes, a common duct traveling above the length of the kiln was integrated into the kiln design.	$ 75,000	$ 7,300	Fan operation electricity
24		Yes	collected in a common duct				
25		No	vented to atmosphere				
26			Other (specify)				
27							
28							
29							
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31							
32							
33							

	AC	AD	AE	AF
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9	**Kiln Work Practices/Equipment Design**		**Kiln drying Schedule**	**Comments**
10	Describe any work practices, for example, to prevent overdrying, or equipment design modifications (e.g., to heat/energy systems) with potential to limit HAP emissions and/or improve energy efficiency. Use the comments column to the right if more than 255 characters are needed.		Attach copies of 3 to 5 of the most frequently used kiln drying schedules at the facility OR reference the schedule followed in the USDA Forest Products Lab Dry Kiln Operators Manual (Agriculture Handbook # 188). For kilns with multiple kiln schedules, reference each here separated by commas.	Optional. Enter any comments you have on the data supplied.
11	**Describe any work practices or equipment designs with potential to limit HAP emissions from lumber drying and/or improve energy efficiency**	**Describe monitoring methods and/or work practices used to prevent overdrying of lumber**	**Describe your kiln schedule(s) (Attach copy or reference USDA Ag Handbook #188)**	**Comments**
14	Reduce temperature as lumber dries to prevent overdrying and associated release of extractive HAPs	Continuous humidity and temperature monitoring within kiln	See Schedules 1 & 2	
15	Prevent overdrying	Lumber moisture monitors within kiln	See Schedule 1	
16	Dry hardwoods		See Schedules 1, 2 & 3	
17	None		USDA T9-C5	
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2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.					
3									
4									
5	**Complete this table if your facility has direct fired process units including direct-fired dryers or lumber kilns.**								
6									
7									
8	**Tab: DFDryFuel**								
9	**Survey reference:**	**Pre-populated Data**			**Direct Fired Equipment Information**				
10	**Instruction:**	This is prepopulated from the EquipDetail Tab	This is prepopulated from the dryer tabs where direct-fired dryers are indicated.	This is prepopulated from the dryer tabs where direct-fired dryers are indicated.	Indicate if the dryer is fired by a "dryer burner" integrated into the design of each individual dryer, or a "combustion unit" such as a serving multiple processes (e.g., a grate burner that fires multiple dryers, a boiler that produces steam for the press and fires dryers). Gas burners used only to initiate combustion do not need to be listed.	Enter a Combustion Unit ID for any stand-alone combustion units that are not dryer burners integrated with the dryer. You may use your permit ID for this combustion unit.	Enter the year the combustion unit was installed.	For stand-alone combustion units that direct-fire dryers but are not part of each dryer, list all the of the process units directly fired by the combustion source	For stand-alone combustion units, indicate if the process unit is subject to a Clean Air Act (CAA) hazardous air pollutant emission standard such as Boiler MACT or CISWI. This question is particularly relevant for stand alone combustion units that may direct-fire dryers and provide indirect heat for other purposes, thus venting a portion of the combustion exhaust gases to the atmosphere without first passing through a dryer in contact with wood furnish.
11	**Field:**	**ICR ID**	**Process Unit Type**	**Dryer Process Unit ID**	**Combustion unit type**	**Combustion Unit ID**	**Combustion unit year installed**	**Process Unit IDs directly fired by the combustion unit**	**Is the combustion unit subject to other regulations under CAA §112 (Boiler MACT, CISWI)?**
14	**Example entry:**	9999	Primary Tube Dryer	Dry-1	Dryer burner: gas	DB1	1999	Dry-1	No
15		9999	Dry Rotary Dryer	Dry-3	Combustion unit dedicated to direct-firing dryers	EU014	1975	Dry-2, Dry-3, TOH	No
16		9999	Strand Dryer	Dry-5	Dryer burner: suspension	Dry-5	1988	Dry-5	No
24	1				Dryer burner: gas				No
25	2				Dryer burner: liquid/oil				Boiler MACT
26	3				Dryer burner: suspension				CISWI
27	4				Combustion unit dedicated to direct-firing dryers				
28	5				Combustion unit serving multiple purposes, including dryer firing				
29	6				Gasifier				
30	7				Other type of combustion unit (explain in comment section)				
31	8								
32	9								
33	10								
34	11								
35	12								

	J	K	L	M	N	O	P
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9							
10	If only a portion of the combustion unit exhaust gas is used to direct-fire one or more dryers, indicate the volume percent of the exhaust gas directed to the dryers (regardless of whether the exhaust first provides indirect-thermal heat in, for example, a boiler or thermal oil heater). This is the volume percent of exhaust gas that mixes with wood material in the dryers resulting in comingled combustion unit and dryer exhaust. If all of the exhaust gas from the combustion unit passes through the dryers enter "100" for 100%.	For stand-alone combustion units, indicate if the process unit is subject to a Clean Air ACT (CAA) New Source Performance Standards.	Enter the heat input capacity for each dryer burner or combustion unit in million BTU per hour.	Select the primary fuel used. Add supplemental fuels in the columns to the right if more than one fuel is used.	Enter percent (100 = 100%)	Include secondary and additional fuels used routinely for multi-fuel fired equipment in these columns.	Enter percent (e.g., 80%). Approximations based on the average from 2016 or a target value will suffice.
11	**Volume percent of combustion unit exhaust gas used to direct-fire dryers, %**	**Is the combustion unit subject to other regulations under CAA §111 (Subparts Db or Dc)?**	**Burner or combustion unit hourly heat input capacity (MMBtu/hr)**	**Combustion unit primary fuel**	**Approximate percent of annual heat input capacity (MMBtu/yr) supplied by primary fuel in 2016**	**Combustion unit supplemental fuel 1**	**Approximate percent of annual heat input capacity (MMBtu/yr) supplied by supplemental fuel 1**
14	100	No	25	natural gas	100		
15	70	No	100	bark residuals	90	residual oil	10
16	100	No	40	wood: residuals containing resin	98	natural gas	2
24		No		wood/bark residual mixture (resin free)		wood/bark residual mixture (resin free)	
25		Db		wood/bark residual mixture (with resin)		wood/bark residual mixture (with resin)	
26		Dc		natural gas		natural gas	
27				distillate oil		distillate oil	
28				residual oil		residual oil	
29				propane		propane	
30				wood: resin-free residuals		wood: resin-free residuals	
31				wood: residuals containing resin		wood: residuals containing resin	
32				bark residuals		bark residuals	
33				gasifier syngas		gasifier syngas	
34				process vent gas: {describe}		process vent gas: {describe}	
35				other fuels: {describe}		other fuels: {describe}	

	Q	R	S	T	U	V
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8						
9						**Comments**
10	Select from menu or write in. You may write in more than one condition. Multi-fuel fired units can select "routine use (multi-fuel fired unit)" from the menu.	Include secondary and additional fuels used routinely for multi-fuel fired equipment in these columns.	Enter percent (e.g., 80%). Approximations based on the average from 2016 or a target value will suffice.	Select from menu or write in. You may write in more than one condition. Multi-fuel fired units can select "routine use (multi-fuel fired unit)" from the menu.	Note any additional fuels beyond the primary fuel and two supplemental fuels burned in the combustion unit.	Optional. Enter any comments you have on the data supplied.
11	**Conditions when supplemental fuel type 1 used**	**Combustion unit supplemental fuel 2**	**Approximate percent of annual heat input capacity (MMBtu/yr) supplied by supplemental fuel 2**	**Conditions when supplemental fuel type 2 used**	**Additional fuels used**	**Comments**
14						
15	startup; supplement to sustain combustion					
16	startup					
24	routine use (single-fuel fired unit)	wood/bark residual mixture (resin free)		routine use (single-fuel fired unit)	wood/bark residual mixture (resin free)	
25	routine use (multi-fuel fired unit)	wood/bark residual mixture (with resin)		routine use (multi-fuel fired unit)	wood/bark residual mixture (with resin)	
26	startup/shutdown	natural gas		startup/shutdown	natural gas	
27	pilot light	distillate oil		pilot light	distillate oil	
28	during upset conditions	residual oil		during upset conditions	residual oil	
29	seasonally during curtailments or peak prices	propane		seasonally during curtailments or peak prices	propane	
30		wood: resin-free residuals			wood: resin-free residuals	
31		wood: residuals containing resin			wood: residuals containing resin	
32		bark residuals			bark residuals	
33		gasifier syngas			gasifier syngas	
34		process vent gas: {describe}			process vent gas: {describe}	
35		other fuels: {describe}			other fuels: {describe}	

	A	B	C	D	E	F	G	H	I	J
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2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.						
3										
4										
5	**Complete this tab if your facility has batch or continuous panel hot presses, agriboard presses, particleboard press molds or extruders.**									
6										
7										
8	**Tab: Press**									
9	**Survey reference:**	**Pre-populated Data**				**Press Equipment Information**				
10	**Instruction:**	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	Enter the year the process unit was installed.	Please enter the panel press design type (e.g., batch or continuous)	Provide press product throughput in thousand square feet per year (MSF/yr) and note the thickness basis in the next column. For molded products such as molded particleboard, you may estimate the volume of products produced instead of the equivalent volume in MSF/yr.	Enter the board thickness basis for panel products. Preferred values are: 1/2" for fiberboard; 1/8" for hardboard; 3/4" for MDF and particleboard; and 3/8' for plywood and OSB. For Molded Products reporting volume, state the volume basis (e.g., MCF/yr).	If the press is used to mak thicknesses, enter the low thickness ranges of the pa this and the next column.
11	**Field:**	**ICR ID**	**Process Unit Type**	**Process Unit ID**	**Product Line**	**Installation Year**	**Panel press design**	**Press throughput (MSF/yr)**	**Press throughput board thickness basis (inches)**	**Low end range of panel thicknesses pressed (inches)**
14	**Example entry:**	9999	Reconstituted wood product press	Press-1	MDF	1987	Batch	80,000	3/4	0.5
15		9999	Reconstituted wood product press	Press-2	MDF	1987	Continuous	100,000	3/4	0.2
16		9999	Softwood Plywood Press	Press-1	SoftwoodPly-1	1985	Batch	300,000	3/8	
17		9999	Hardwood Plywood Press	Press-1	HardwoodPly-1	1975	Batch	100,000	3/8	
24	1						Batch		1/8	
25	2						Continuous		3/8	
26	3						Press mold		1/2	
27	4						Extruder		3/4	
28	5						Other: {describe}		MCF/yr	
29	6									
30	7									
31	8									
32	9									
33	10									

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8											
9					**Batch presses**					**Continuous Presses**	
10	e panels of varying and high end of the nel exiting the press in	Enter the inlet moisture content target for the final product (oven dry basis)		Indicate the maximum expected target operating temperature for any products produced	Indicate if the press is loaded automatically (for example, with a press loader) or manually (for example, by a person on a press elevator). Choose "Automatic with Manual Assist" if a person on a press elevator is required to check that unpressed panels loaded properly.	Indicate if the press is unloaded automatically (for example, with a press unloader) or manually (for example, by a person on a press elevator).	Enter the number of batch press openings	Enter the area of the press platens in square feet (ft2)	For batch presses enter the typical press cycle time for the standard product thickness. Particleboard/MDF: 3/4"; Plywood/OSB: 3/8"; Hardboard: 1/8". List thickness basis used if standard thickness is not produced. For example, enter "6, (7/8-in)" for a 6 minute press cycle on 7/8" panel.		
11	**High end range of panel thicknesses pressed (inches)**	**Target inlet board moisture content (%)**	**Press heating method**	**Maximum target operating temperature (F)**	**Loading method**	**Unloading method**	**Number of press openings**	**Press platen area (ft2)**	**Pressing cycle length (minutes)**	**For continuous presses, is the press preceded by a press preheater?**	**Continuous press length (ft)**
14	2	8	Steam	420	Automatic	Automatic	16	128	5.25	No	
15	3	8	Hot oil	400						Yes	100
16			Steam	450	Automatic with Manual Assist	Manual	25				
17			Steam	390	Manual	Manual	15				
24			Hot Oil		Automatic	Automatic				Yes	
25			Steam		Automatic with Manual Assist	Manual				No	
26			Hot Water		Manual					NA	
27			Radio Frequency								
28											
29											
30											
31											
32											
33											

	V	W	X	Y	Z	AA	AB	AC	AD
1									
2									
3									
4									
5									
6									
7									
8									
9			**Press Enclosures**						
10		Enter the typical production rate for the standard product thickness. Particleboard/MDF: 3/4"; Plywood/OSB: 3/8"; Hardboard: 1/8". List thickness basis used if standard thickness is not produced. For example, enter "10 (7/8")" for 10 MSF per hour of 7/8" panel.	Select the press enclosure type from the drop down menu. Permanent total enclosures and wood products enclosures are defined in the PCWP MACT. If you select partial enclosure, please describe.	Indicate if the press loader and/or unloader, or board cooler is included in the press enclosure.	If known, enter the dimensions of the press enclosure: length, width and height.			Enter press vent enclosure or hood capture efficiency percentage. Capture efficiency is assumed to be 100% for "permanent total enclosures" and "wood products enclosures" as defined in the PCWP NESHAP.	Temporary total enclosures (TTE, as described in the PCWP NESHAP) may be constructed for emissions testing purposes. Select the method used during air emissions testing to determine enclosure capture efficiency. Capture efficiency is assumed to be 100% for "permanent total enclosures" and "wood products enclosures" as defined in the PCWP NESHAP.
11	**Continuous press speed, feet/minute**	**Production rate (MSF/hour)**	**Press enclosure type**	**Equipment included in the press enclosure**	**Length (feet)**	**Width (feet)**	**Height (feet)**	**Press vent enclosure or hood capture efficiency (%)**	**Describe method used during air emissions testing to determine enclosure capture efficiency**
14			Partial enclosure: Hood surrounding press covering half of the distance from the roof to floor	press only				85	SF6 tracer gas method in 40 CFR 63, subpart DDDD, Appendix A
15	120	11	Wood products enclosure (by definition in PCWP MACT)	press and board cooler	150	30	48	100	Tested "as is" without constructing temporary total enclosure
16			Not enclosed	NA					Not applicable - has never been tested
17			Not enclosed	NA					Not applicable - has never been tested
24			Not enclosed	press, loader, and unloader					Permanent total enclosure (by definition in PCWP NESHAP)
25			Permanent total enclosure (by definition in PCWP NESHAP)	press and loader					Wood products enclosure (by definition in PCWP NESHAP)
26			Wood products enclosure (by definition in PCWP NESHAP)	press and unloader					Temporary total enclosure constructed during testing with Method 204A through F of 40 CFR part 51, appendix M
27			Partial enclosure: {describe}	press, loader, unloader, and board cooler					SF6 tracer gas method in 40 CFR 63, subpart DDDD, Appendix A
28				press, unloader, and board cooler					Tested "as is" without constructing temporary total enclosure
29				press and board cooler					Not applicable - has never been tested
30				press only					
31				NA					
32									
33									

	AE	AF	AG	AH	AI
1					
2					
3					
4					
5					
6					
7					
8					
9	**Presses Without Enclosures**			**Costs**	
10			Indicate how panels are removed from the press area. Examples may include: automatic conveyor, fork lift		
11	**Are there constant human accessibility worker safety factors that make it technically and/or economically infeasible to fully enclose the press for emissions capture? If yes, please describe the structural barriers preventing press enclosure/emission capture.(e.g., yes, exposure by worker on press elevator)**	**Are there other operational factors, including work practices, that make it technically and/or economically infeasible to fully enclose the press for emissions capture? If yes, please describe the operational requirements preventing press enclosure/emission capture.**	**Once unloaded, how are panels removed from the press area?**	**Estimated capital cost of press enclosure, if known, $thousands**	**Cost of installing a TTE for emissions testing, if known**
14	No	Sufficient capture is achieved with the partial enclosure; full enclosure limits maintenance personnel access to press area	automatic conveyor		
15	No		automatic conveyor	$200,000	NA
16	Operator manually loads press	Yes, stacks of pressed plywood must be removed	fork lift		
17	Operator manually loads press	Yes	automatic conveyor		
24			automatic conveyor		
25			fork lift		
26			other: {specify}		
27					
28					
29					
30					
31					
32					
33					

	AJ	AK	AL	AM	AN	AO	AP
1							
2							
3							
4							
5							
6							
7							
8							
9	**Effects of CARB ATCM and TSCA Implementation Rule**					**Process Information**	**Comments**
10	Complete this series of questions for presses used to manufacture products subject to the CARB Air Toxic Control Measure (ATCM) or the Toxic Substance Control Act (TSCA) Formaldehyde Standards for Composite Wood Products Implementation Rule (40 CFR Part 770).	Select or write in the current CARB Phase II ATCM and TSCA Implementation Rule compliant resin system used on the press. Select the type of ultra low-emitting formaldehyde (ULEF) or no added formaldehyde (NAF) resin, if applicable.	For batch presses enter the change in the typical press cycle time for the standard product thickness resulting from CARB ATCM compliance. Standard thickness: Particleboard/MDF: 3/4"; Plywood/OSB: 3/8"; Hardboard: 1/8". Enter negative numbers if the press cycle time was reduced (e.g., -0.5 indicates that press cycle time was reduced by 0.5 minutes [30 seconds]), or positive numbers if cycle time is increased.	Enter the change in press operating temperature for the standard product thickness resulting from CARB ATCM compliance. Enter negative numbers if the temperature was reduced (e.g., -50 indicates that temperature was reduced by 50 degrees F), or positive numbers if temperature increased.	Indicate any other significant changes in press operation implemented to meet Phase II of the CARB ATCM. Interim changes to meet Phase I do not need to be indicated if superseded by process changes to meet Phase II. If the facility has press HAP emissions test data both before and after implementation of the CARB ATCM, please submit the before and after CARB emissions test reports as requested in the EmTests tab.	Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Optional. Enter any comments you have on the data supplied.
11	**Resin system used prior to CARB ATCM**	**Current resin system**	**Change in pressing cycle length (minutes) to comply with CARB ATCM**	**Change in press temperature (F) to comply with CARB ATCM**	**Process changes implemented to comply with Phase II of the CARB ATCM**	**Describe any operational work practices with potential to limit press HAP emissions**	**Comments**
14	UF	ULEF: MUF	0.75	50	Adjusted boiler to increase steam pressure to press		
15	UF face/MDI core	NAF: MDI	-0.2	-25	Repurposed 2 UF blenders to blend MDI. Apply wood flour to mat to prevent sticking in press.		
16							
17							
24	UF	ULEF: MUF					
25	MF	ULEF: PF					
26	MUF	ULEF: RF					
27	MDI	NAF: soy					
28	UF face/MDI core	NAF: PVA					
29	PVA	NAF: MDI					
30	Other: (specify}	Other ULEF: {specify}					
31		Other NAF: {specify}					
32		Other: {specify}					
33							

	A	B	C	D	E	F	G	H	I	J	K
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?							
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.							
3											
4											
5	**Complete this tab if your facility operates reconstituted wood products board coolers.**										
6											
7											
8	**Tab: BC**										
9	**Survey reference:**	**Pre-populated Data**			**Board Cooler Equipment and Processing Information**						
10	**Instruction:**	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	Enter the year the process unit was installed.	Provide the cooler throughput in thousand square feet per year (MSF/yr) on a 3/4" basis.	Provide a rough estimate of the square footage area that would be required to enclose the cooler for purposes of emission collection if it does not have a hood.	"Permanent total enclosure (PTE)" and "wood products enclosure" are defined in the PCWP MACT to have 100% capture of emissions. If you select "partial enclosure" please describe the partial enclosure in your response.	Select yes or no	Enter board cooler enclosure or hood capture efficiency percentage. Capture efficiency is assumed to be 100% for "permanent total enclosures" and "wood products enclosures" as defined in the PCWP NESHAP.	
11	**Field:**	**ICR ID**	**Product**	**Process Unit ID**	**Installation Year**	**Cooler throughput (MSF/yr 3/4")**	**What is the footprint area of the board cooler? (ft^2)**	**Board cooler emissions capture and ventilation system**	**Is board cooler exhaust routed into the press enclosure?**	**Board cooler enclosure or hood capture efficiency (%)**	**Describe any technical or economic feasibility issues associated with installing a board cooler enclosure**
14	**Example entry:**	9999	MDF	Cooler-1	1987	70,000	200	No capture system, but additional building ventilation fans in vicinity of cooler	No	0	Large volume of enclosure needed to encompass cooler and distance to building ventilation fans (400 sq. ft x 50 ft height) and low concentration of HAP to be treated
15		9999	Particleboard	Cooler-1	2000	60,000	360	Wood products enclosure (by definition in PCWP MACT)	No	100	Enclosure installed - feasible
24	1							Permanent total enclosure (by definition in PCWP NESHAP)	Yes		
25	2							Wood products enclosure (by definition in PCWP NESHAP)	No		
26	3							Partial enclosure: {describe}			
27	4							None (ventilates into building)			
28	5							No capture system, but additional building ventilation fans in vicinity of cooler			
29	6							Hood with ventilation			
30	7										
31	8										
32	9										
33	10										

	L	M
1		
2		
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9	**Process Information**	**Comments**
10	Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Optional. Enter any comments you have on the data supplied.
11	**Describe any operational work practices with potential to limit press HAP emissions**	**Comments**
14		
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33		

	A	B	C	D	E	F	G	H	I	J	K
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?							
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.							
3											
4											
5	**Complete this tab if your facility has engineered wood products presses and curing devices.**										
6											
7											
8	**Tab: EWPPress**										
9	**Survey reference:**	**Pre-populated Data**			**Engineered Wood Press Equipment Information**						
10	**Instruction:**	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	This is prepopulated from the EquipDetail Tab	Enter the year the process unit was installed.		Enter number of openings for multi-opening presses. Otherwise, enter 1.	Enter numeric value corresponding to the units of measure specified in the next column.	Use thousand cubic feet per year (MCF/yr) for LVL, LSL, and PSL; thousand linear feet per year (MLF/yr) for I-joists; and thousand board feet per year (MBF/yr) for glue-laminated beams.		Indicate the maximum target operating temperature for any products produced
11	**Field:**	**ICR ID**	**Product**	**Process Unit ID**	**Installation Year**	**Press design**	**Number of openings**	**Annual press throughput**	**Press throughput units of measure**	**Press heating method**	**Maximum target operating temperature (F)**
14	**Example entry:**	9999	LVL	EWPress-1	1996	Batch	12	700	MCF/yr	Steam	420
15		9999	PSL	EWPress-2	2005	Continuous	1	2,600	MCF/yr	Hot oil, microwave	340
16		9999	I-joists	Curing-1	2005	Continuous	1	40,500	MCF/yr	Radio Frequency	230
24	1					Batch			MCF/yr	Hot Oil	
25	2					Continuous			MBF/yr	Steam	
26	3					Press mold			MLF/yr	Hot Water	
27	4					Extruder				Radio Frequency	
28	5					Other: {describe}					
29	6										
30	7										
31	8										
32	9										
33	10										

	L	M	N	O	P	Q	R	S	T	U
1										
2										
3										
4										
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7										
8										
9	**Batch Presses**				**Continuous Presses**				**Press Enclosures**	
10	Enter the typical press cycle time for a standard product thickness. In the next column list thickness basis used.		Enter the length and width of the press or other curing device			Enter typical or target production rate and thickness basis			"Permanent total enclosure" and "wood products enclosure" are defined in the PCWP NESHAP and are considered to have 100% capture of emissions. If you select partial enclosure, please describe.	Enter press vent enclosure or hood capture efficiency percentage. Capture efficiency is assumed to be 100% for "permanent total enclosures" and "wood products enclosures" as defined in the PCWP NESHAP.
11	**Pressing cycle length, if batch process (minutes)**	**List thickness basis for pressing cycle length (inches)**	**length (ft)**	**width (ft)**	**Continuous press length (ft)**	**Production rate (feet/minute)**	**Continuous press width (ft)**	**Thickness basis for production rate (inches)**	**Press enclosure type**	**Press Vent Hood Capture Efficiency (%)**
14	10	2	60	4					Not enclosed	95
15					40	80	12	4	Wood products enclosure (by definition in PCWP MACT)	100
16	20	NA	60	40					Enclosed - Exhaust from the curing oven is evacuated through two vents	
24									Not enclosed	
25									Permanent total enclosure (by definition in PCWP NESHAP)	
26									Wood products enclosure (by definition in PCWP NESHAP)	
27									Partial enclosure: {describe}	
28										
29										
30										
31										
32										
33										

	V	W	X
1			
2			
3			
4			
5			
6			
7			
8			
9		**Process Information**	**Comments**
10		Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Optional. Enter any comments you have on the data supplied.
11	**Describe any technical or economic feasibility issues associated with installing a press enclosure**	**Describe any operational work practices with potential to limit press HAP emissions**	**Comments**
14			
15			
16			
24			
25			
26			
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28			
29			
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32			
33			

	A	B	C	D	E	F	G	H	I	J
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?						
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.						
3										
4										
5	**Columns B through E will be prepopulated with Process Unit information. In Columns F, G and H, provide throughput information for all Process Units. Complete Columns I through X on this tab if your facility has stand-alone digesters, pressurized refiners, atmosph**									
6	**Facilities that produce only kiln-dried lumber are not required to complete this tab.**									
7										
8	**Tab: OtherEquip**									
9	**Survey reference:**	**Pre-populated Data**				**Other Equipment Information**			**Digesters and Refiners**	
10	**Instruction:**	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	This is prepopulated from the Equipment Detail Tab	Enter annual throughput capacity on the best basis for the unit, then enter the basis in the next column. Ex. - oven dry ton/yr (ODT/yr), Thousand Sq. Ft./yr 3/8" (MSF/yr), Gallons/yr (gal/yr). For blenders and formers, enter throughput in ODT/yr. For finishing sanders, enter double the panel production rate if both surfaces are sanded.		Enter the year the process unit was installed.	Describe the digester/refiner in terms of its location in the process (e.g., wood source and next step). This will help EPA further distinguish equipment types if needed.	Select from menu (steam, not heated, or other)
11	**Field:**	**ICR ID**	**Process Unit ID**	**Process Unit Type**	**Process Unit Description**	**Nominal Annual Throughput Capacity Value**	**Throughput units of measure**	**Installation Year**	**Digester/refiner description**	**Heating method**
14	**Example entry:**	9999	Blender-1	Blender	PF blender 1	60,000	ODT/yr	1987		
15		9999	Blender-2	Blender	PF blender 2	70,000	ODT/yr	1995		
16		9999	Former-1	Former		285,000	MSF/yr	1987		
17		9999	Sander-1	Finishing sander	final sander	800,000	MSF/yr	1995		
18		9999	Other-3	Other	other examples	250,000	MSF/yr	1956	Processes green wood chips from outdoor pile prior to refining	steam
19		9999	Flaker-1	Panel trim chipper	Chipper 1	150,000	ODT/yr	1995		
24	1						ODT/yr			steam
25	2						MSF/yr			not heated
26	3						MBF/yr			other: {specify}
27	4						MSF/yr 1/2"			
28	5						MSF/yr 1/8"			
29	6						MSF/yr 3/4"			
30	7						MSF/yr 3/8"			
31	8						MCF/yr			
32	9						MLF/yr			
33	10									

	K	L	M	N	O	P	Q	R
1								
2								
3								
4								
5	eric refiners, dry blending and forming, wet forming, finishing sanders, finishing saws, panel trim chippers, or log vats to manufacture PCWP							
6								
7								
8								
9			**Dry Blending/Forming**		**Wet Formers**	**Finishing Sanders**		**Finishing Saws**
10		Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Enter the type of resin blended. Select from the values provided in the Resin tab.	Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Indicate if 1 of 2 (both) panel surfaces are sanded. Note that the production rate provided earlier in this tab should be the total MSF for both surfaces sanded if applicable (e.g., 10,000 MSF x 2 surfaces --> enter 20,000 MSF sanded in the production column of this tab).	Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.
11	**Batch or continuous process**	**Describe any operational work practices with potential to limit digester HAP emissions**	**Resin ID**	**Describe any operational work practices with potential to limit blending and forming HAP emissions**	**Describe any operational work practices with potential to limit wet former HAP emissions**	**Describe any operational work practices with potential to limit HAP emissions from sanding**	**Surfaces sanded (1 or 2)**	**Describe any operational work practices with potential to limit HAP emissions from sawing**
14			PF10	Use non-added formaldehyde resin				
15			PF10	Use non-added formaldehyde resin				
16								
17						None	1	
18	Batch	None						None
19								
24	Batch		***[dynamic list based on Column E of the "Resin" tab]***					
25	Continuous							
26								
27								
28								
29								
30								
31								
32								
33								

	S	T	U	V	W	X
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2						
3						
4						
5						
6						
7						
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9	**Panel Trim Chippers**		**Log vats**			**Comments**
10	Select the material chipped: resinated panel trim, other unresinated wood, other {specify}	Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Type of log vat (hot water or steaming)	Enter the maximum target operating temperature for the vat.	Describe any work or operational practices or equipment designs with potential to limit HAP emissions. Use the comments column to the right if more than 255 characters are needed.	Optional. Enter any comments you have on the data supplied.
11	**Material chipped**	**Describe any operational work practices with potential to limit HAP emissions from chipping**	**Log Vat Type**	**Maximum Target Vat Temperature (F)**	**Describe any operational work practices with potential to limit HAP emissions from log vats**	**Comments**
14						
15						
16						
17						
18			Hot Water Vat (Open to Atmosphere)	140	None	Throughput based on dry veneer MSF produced
19	other unresinated wood	None				
24	resinated panel trim		Hot Water Vat (Open to Atmosphere)			
25	other unresinated wood		Log Steaming Vat (Enclosed)			
26	other: {specify}					
27						
28						
29						
30						
31						
32						
33						

	A	B	C	D	E	F	G	H	I	J	K
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?							
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.							
5	**Complete this tab to describe air pollution control devices (APCDs) on PCWP process units.**										
8	**Tab: APCD**										
9	**Survey Reference:**	**Pre-populated Data**							**General APCD Information**		
10	**Instruction:**	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab, based on the first use of the APCD ID in EquipDetail. Please edit/overwrite the prepopulated cell in this column if multiple process unit types are controlled by the APCD. For example, if an RTO controls two tube dryers and a press and only the dryers are reflected in the prepopulated cell (e.g., Tube dryer), please edit the cell to add the press (e.g., Tube dryer, Reconstituted wood products press). Click on the first example below if you would like to see the menu choices available for process unit types (if applicable).	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab for context, based on the first use of the APCD ID in this row in EquipDetail.	Enter the manufacturer of the APCD, if known. Enter "UK" for unknown. Enter "shop-built" for equipment designed by the mill.	Enter the year the process unit was installed.	Enter the typical pressure drop across the control device in inches of water
11	**Field:**	**ICR ID**	**FRS Site ID**	**APCD ID**	**Type of control device**	**Process Unit Type**	**Product**	**Air Pollution Control System**	**APCD manufacturer (if known)**	**Year installed (XXXX)**	**Pressure drop (inches H2O)**
14	**Example entry:**	9999	999999999999	RCO-1	RCO	Primary tube dryer **(show menu)**	MDF	BH/RCO	ABC Company	1998	3
15		9999	999999999999	SCBR2	SCBR	Hardwood veneer dryer	HPW	SCBR	Unknown	1985	6.3
16		9999	999999999999	UnitX	Other: examples	Other: X	Other: X	OtherX/OtherY/OtherZ	Shop built	1990	5
17		9999	999999999999	BagH-1	BH	Former	Particleboard	CYC/BH	XYZ Solutions	1999	1
24	1										
25	2										
26	3										
27	4										
28	5										
29	6										
30	7										
31	8										
32	9										
33	10										

	L	M	N	O	P	Q	R	S	T	U	V
1											
2											
4											
5											
7											
8											
9	**Control Efficiency**				**Thermal Oxidizers/Incinerators**						
10	Measured methanol control efficiency (%): If methanol inlet/outlet testing has been conducted for the APCD, enter the measured percent reduction across the control device.	Measured formaldehyde control efficiency (%): If formaldehyde inlet/outlet testing has been conducted for the APCD, enter the measured percent reduction across the control device.	Measured THC control efficiency (%): If total hydrocarbon (THC) inlet/outlet testing has been conducted for the APCD, enter the measured percent reduction across the control device.	Measured PM control efficiency (%): If particulate matter (PM) inlet/outlet testing has been conducted for the APCD, enter the measured percent reduction across the control device.	Complete for RTO, RCO, TCO, TO and other add-on incineration-based control devices. Indicate heat recovery method if the oxidizer is designed for heat recovery. "Regenerative" oxidizers have alternating heat recovery within the canisters, while less common "recuperative" oxidizers have a single heat exchanger prior to the oxidizer.	Complete for RTO, RCO, TCO, and other add-on incineration-based control devices that use canisters (media beds) for heat recovery.	Enter the operational mode for the unit: thermal, catalytic, or catalytic with thermal backup	Select fuel type: natural gas, propane or other. If you select "other" please write in the fuel type.	For thermal oxidizers, enter the minimum firebox temperature (F) set point in 2016. For catalytic oxidizers that sometimes operate in thermal mode, enter the thermal mode temperature.	Enter the typical fuel use under normal operating conditions.	For catalytic oxidizers, enter the minimum firebox temperature (F) set point in 2016.
11	**Measured methanol control efficiency obtained through testing (%)**	**Measured formaldehyde control efficiency obtained through testing (%)**	**Measured THC control efficiency obtained through testing (%)**	**Measured PM control efficiency obtained through testing (%)**	**Heat recovery method**	**Number of canisters**	**Operational mode**	**Fuel type**	**Thermal mode minimum firebox temperature (F) set point in 2016**	**Thermal mode fuel use (MMBtu/hr)**	**Catalytic mode minimum firebox temperature (F) set point in 2016**
14	95	92	99	45	Regenerative	2	Catalytic with thermal backup	Natural gas	1450	12	900
15	70	79	45	90							
16			75	90							
17				99							
24					NA		Thermal only	Natural gas			
25					Regenerative		Catalytic only	Propane			
26					Recuperative		Catalytic with thermal backup	Other fuel: {specify}			
27					No heat recovery (single-stage combustion chamber)						
28					No heat recovery (two-stage combustion chamber)						
29											
30											
31											
32											
33											

	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1												
2												
5												
8												
9												
10	Enter the typical fuel use under normal operating conditions.	Enter time stack gases are exposed to the target temperature (actual or design value). This is the residence time the gases are in the combustion zone (firebox).	Select from menu or write in.	Describe the type of catalyst used in general terms such as platinum-based, manganese oxide, etc.	Select APCD or combination of APCDs upstream of the oxidizer. If the upstream APCD combination if not provided in the selection menu, choose other and write in the upstream APCD type. Select "NA" if no APCD is used upstream of the oxidizer.	Enter APCD ID(s) for Nitrous Oxide (NOx) reduction devices that precede the oxidizer, if applicable.	Select or write in method used to reduce NOx emissions from the oxidizer, if applicable	Some oxidizers have extra canisters to allow for online bakeout while other canisters continue to operate.	Enter the frequency when the unit must be taken offline for bakeout	Enter the frequency when the unit must be taken offline for washouts	Enter the typical amount of wastewater generated per washout event	Enter any operational details not covered, particularly if they are unique to your unit. Maximum 255 characters.
11	**Catalytic mode fuel use (MMBtu/hr)**	**Residence time at operating temperature (seconds)**	**Type of packing material**	**Type of catalyst (if applicable)**	**Type of upstream PM removal device(s)**	**Upstream NOx removal device ID**	**Type of NOx controls used**	**Does unit allow for online bakeouts without control device downtime?**	**Offline bakeout frequency (months)**	**Washout frequency**	**Wastewater from washouts (gallons)**	**Additional Info**
14	8	2	Ceramic saddles with catalyst	manganese oxide	WESP	NA	urea injection into duct	No	12	monthly	5,000	
15												
16												
17												
24			NA		NA		NA	Yes				
25			Ceramic saddles		Settling chamber		Selective Non-Catalytic Reduction (SNCR)	No				
26			Ceramic block		Multiclone		Catalytic	NA				
27			Ceramic saddles with catalyst		WESP		Low NOx burner					
28			Ceramic block with catalyst		Multiclone/WESP		Fuel injection					
29			Other: {specify}		Baghouse		Other: {specify}					
30					Baghouse/WESP							
31					Rotary bed protector							
32					Scrubber							
33					Other: {specify}							

	AI	AJ	AK	AL	AM	AN	AO	AP
1								
2								
5								
8								
9	**Process Combustion Unit Control**					**Sorbent injection**		
10	If a process combustion unit, for example, a boiler, is used for HAP control, describe its operation here.	Enter the process unit ID used elsewhere in this survey (or permit ID) for boilers or other combustion units that burn PCWP process unit exhaust.	Enter the control device type used to control emissions from the combustion unit that burns PCWP process unit exhaust. For example, if a wet scrubber-controlled boiler incinerates dryer exhaust, enter "wet scrubber."	Indicate volume percent of the PCWP process unit (such as dryer or press) process exhaust that is incinerated in the process combustion unit. If less than 100 percent of the PCWP unit exhaust, please explain in the next column.		Complete the sorbent injection questions for sorbents injected into the gas stream prior to collection by a fabric filter or other control device for which information is being provided. For example, complete the sorbent injection questions for a dry injection fabric filter system in the same row where you enter information for the fabric filter.	Write in pollutants	Enter pounds per hour (lb/hr) of sorbent injected into the exhaust gas stream. Use the average from 2016 or a target value.
11	**Process combustion unit description**	**Process combustion unit ID**	**Process combustion unit control**	**Volume percent of exhaust controlled, %**	**If less than 100%, provide the destination of exhaust not incinerated and parameters affecting volume incinerated**	**Sorbent type**	**List pollutants the sorbent injection was installed to control**	**Sorbent injection rate (lb/hr)**
14								
15								
16	Unit X vents to dryer 1 and 2 burners	Dryer 1, Dryer 2	WESP1 and WESP2/RTO2	80	20% to press enclosure when press operating	activated carbon	Elemental Gaseous Mercury	20
17								
24							Elemental Gaseous Mercury	
25							Sulfur Dioxide	
26							Hydrochloric Acid	
27							Hydrofluoric Acid	
28								
29								
30								
31								
32								
33								

	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA
1											
2											
5											
8											
9	**Baghouses/Fabric filters Used for HAP Control**					**Cyclones and multiclones**		**Electrostatic Precipitators (ESP)**			
10	Select (or write in) the filter material and note if coatings are added to the filter material (e.g., polyester with polytetrafluoroethylene [PTFE] coating). If no coating is indicated (e.g., polyester), the it will be assumed that the filter material is uncoated.	Select from list or write in	Enter typical bag life (or expected bag life), months	Enter number of fabric filter compartments. Enter "1" if the baghouse is not separated by different compartments.	Enter the design air-to-cloth ratio (gas flow divided by the filter bag material area)		Enter for multiclones. Optional for cyclones.	Complete the ESP questions for dry ESPs and WESPs. Enter number of fields.	Enter number of fields used during normal operation. This may be the same as the total number of fields unless some fields are offline (e.g., for cleaning).	Enter the design specific collection area (area of the plates divided by gas flow rate).	Describe any ESP upgrades made within the last 10 years, such as addition of fields or other upgrades to increase ESP efficiency. If no upgrades, leave blank.
11	**Filter material and added coatings**	**Bag cleaning method**	**Typical bag life (months)**	**Number of compartments**	**Air-to-cloth ratio (acfm/ft2)**	**Number of tubes (for multiclones)**	**Tube diameter (inches)**	**Total number of fields**	**Number of fields used during normal operation**	**Specific collection area, (ft2/1,000 acfm)**	**Have fields/chambers been added to expand the ESP within the last 10 years?**
14											
15											
16						6	24	3	2	200	yes - 1 field added for peak production times
17	Polyester (PTFE coated)	Pulse-jet	24	2	10						
24	Polyester (uncoated)	Pulse-jet									Yes
25	Nylon (uncoated)	Shaking									No
26	Dacron (uncoated)										NA
27	Polypropylene (uncoated)										
28	Polyester (PTFE coated)										
29	Nylon (PTFE coated)										
30	Dacron (PTFE coated)										
31	Polypropylene (PTFE coated)										
32	Other: {specify}										
33											

	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL
1											
2											
3											
4											
5											
6											
7											
8											
9	**Wet ESPs**		**Wet Scrubbers Used for HAP Control**						**Packed bed scrubbers/absorbers**		
10	Complete these additional ESP questions for WESPs. If a quench is used prior to the ESP, complete the scrubber questions for the quench.	Total water flow through the WESP, including recycled water. Use the average from 2016 or a target value.	Complete this section for all types of wet scrubbers (venturi, tray, plate, injection, quench, etc.) including WESP and biofilter prequench scrubbers. Include electrified filter beds and sand filters used as APCDs in the scrubber columns. Select scrubber type.		Enter the numeric value for the scrubber design liquid-to-gas ratio (L/G) in gallons of liquid (including recycled liquid) per 1000 acfm of gas. Use the average from 2016 or a target value.	Enter numeric value for the target pH. Use the average from 2016 or a target value.	Enter the liquid flow rate at the scrubber inlet	Enter typical gallons per minute of scrubbing fluid (e.g., water) makeup added to the system. Use the average from 2016 or a target value.	Complete the scrubber questions and complete the additional questions below related to the packing material		
11	**Is WESP preceded by a quench chamber**	**WESP water flow (gpm)**	**Scrubber type**	**Type of alkali added, if any**	**Liquid-to-gas ratio (gal/1000 acfm)**	**Inlet pH of scrubbing liquid**	**Scrubber inlet liquid flow rate (gpm)**	**Scrubbing fluid make-up rate (gpm)**	**Type of packing material**	**Packing material depth (ft)**	**Scrubber/absorber cross-sectional area (ft2)**
14											
15			packed bed	none	7	8.5	310	30	Plastic packing (loose)	10	4.5
16	Yes	275									
17											
24	Yes		venturi						Plastic packing (loose)		
25	No		tray/plate						Scructured packing		
26	NA		packed bed						Other: {specify}		
27			injection						NA		
28			WESP or biofilter pequench								
29			EFB								
30			sand filter								
31			Other: {specify}								
32											
33											

	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW
1											
2											
3											
4											
5											
6											
7											
8											
9	**Biofilters**										
10	Note any gas stream pretreatment equipment required to temper the incoming exhaust gas stream before it enters the biofilter bed. Include dilution with ambient air to reduce temperature or heating of inlet air to increase temperature. Complete the scrubber section for independent scrubber or quench systems that precede the biofilter.		Select closed or open. Open biofilters are those that allow the media bed to be exposed to atmospheric elements such as rain, sun, and wind.		Describe the process for inoculating the biofilter, including the number of days it takes for the microbes to go from initial inoculation to achieving target control efficiency.	Provide the minimum biofilter bed temperature established under §63.2262(m) of the PCWP NESHAP.	Provide the maximum biofilter bed temperature established under §63.2262(m) of the PCWP NESHAP.		Indicate if biofilter media bed periodic changeouts are full changeouts of the entire media bed, or partial changeouts of only part of the media bed.	Enter the typical pH of the biofilter effluent	
11	**Pretreatment required**	**Number of biofilter beds**	**Is the biofilter bed closed or open to the atmosphere?**	**Biofilter media used to support microorganisms**	**Biofilter inoculation process description**	**Minimum biofilter bed temperature (F)**	**Maximum biofilter bed temperature (F)**	**Bed contact time (seconds)**	**Full or partial periodic media bed changeouts?**	**pH of effluent**	**Time from biofilter startup to full pollutant reduction efficiency (days)**
14											
15											
16	Spray chamber	2	Closed	Bark or Woody Residue	purchased microbial products, 15 days	75	95	30	Partial	6.8	12
17											
24			Closed	NA					Full		
25			Open	Bark or Woody Residue					Partial		
26				Structured Media							
27				Stone/Gravel/Rock							
28				Other (specify)							
29											
30											
31											
32											
33											

	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH
1											
2											
5											
8											
9		**Bioscrubbers**									
10	Please describe if there have been any catastrophic failures of the biofilter media bed, the cause of the failures, corrective actions, and time (days) required between the failure and completion of corrective action to regain full biofilter emissions reduction efficiency.	Note any gas stream pretreatment equipment required to temper the incoming exhaust gas stream before it enters the biofilter bed. Include dilution with ambient air to reduce temperature or heating of inlet air to increase temperature. Complete the scrubber section for independent scrubber or quench systems that precede the biofilter.		Select closed or open. Open biofilters are those that allow the media bed to be exposed to atmospheric elements such as rain, sun, and wind.	Identify the material the trickling filter media is made of.	Describe the process for inoculating the bioscrubber, including the number of days it takes for the microbes to go from initial inoculation to achieving target control efficiency.	Provide the minimum Aeration Tank temperature, if applicable.	Provide the maximum Aeration Tank temperature.	Provide the minimum flow for the trickling filter water.	Indicate expected frequency of the trickling filter media bed changeouts and expected downtime.	
11	**Description of biofilter failures**	**Pretreatment required**	**Cubic Feet of Trickling Filter Media**	**Is the Trickling Filter Bed closed or open to the atmosphere?**	**Type of Trickling Filter media used to maximize air/water interface**	**Bioscrubber inoculation process description**	**Minimum aeration tank temperature (F)**	**Maximum aeration tank temperature (F)**	**Minimum Trickling Filter Water Flow Rate (gpm)**	**Full or partial periodic media bed changeouts?**	**Please fill out the Wastewater (WW) Tab as it relates to the bioscrubber aeration tank and associated equipment.**
14											
15											
16	Reduced performance occurred after prequench malfunctioned; corrected after 8 days and reinoculation of inlet side of bed										
17		Spray chamber	750	Closed	Biomass/Foam	2 days	75	115	5	Full - 1 year	
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											

	CI	CJ	CK	CL	CM	CN	CO
1							
2							
4							
5							
7							
8							
9			**Control System Water Source and Usage**				
10		Please describe if there have been any catastrophic failures of the biofilter media bed, the cause of the failures, corrective actions, and time (days) required between the failure and completion of corrective action to regain full biofilter emissions reduction efficiency.	Enter makeup water source and usage information for wet control devices such as wet scrubbers, WESP, mist eliminators, absorbers, etc. Select from menu. Process water includes water recirculated from onsite equipment including mill settling or wastewater treatment ponds. Please include source of the process water. Surface water includes lake water, pond water, river water, etc. Groundwater is from a well. City water is supplied from the local municipality.	Select yes/no	Enter numeric value in gallons per minute (gpm). Use the average from 2016 or a target value.	Enter the volume percentage of recirculation gpm flow that is not recalculated back to the control device (i.e., the blowdown percentage). Use the average from 2016 or a target value.	Enter end use or disposal method for the blowdown (e.g., evaporation ponds or POTW)
11	**Time from bioscrubber startup to full pollutant reduction efficiency (days)**	**Description of bioscrubber failures**	**Water source**	**Is water recirculated?**	**Water recirculation rate (gpm)**	**Wastewater (blowdown) volume (%)**	**Wastewater (blowdown) reuse or disposal method**
14							
15			City water	Yes	300	10	settling pond and NPDES discharge
16							
17	2						
24			NA	Yes			
25			Process water	No			
26			Surface water				
27			Groundwater				
28			City water				
29			Treated wastewater				
30			Surface water and water from recirculation pond				
31							
32							
33							

	CP	CQ	CR	CS	CT	CU	CV	CW	CX
1									
2									
9	**Solid Material Handling and Disposal for HAP Control Devices**						**Parameter Monitoring for HAP Controls**		
10	Complete the solid material questions for control devices that collect or generate solid material to be handled or disposed. Do not include baghouses or cyclones used solely for wood/material handling operations. Provide information for any solid material collected by the APCD (e.g., PM, sorbent, etc.)		Complete the solid material handling and disposal questions for control devices that collect solid material (e.g., baghouse) or generate solid material from control device media changeouts (e.g., RTO, RCO, TCO, biofilter, packed bed scrubber). Explain how the solid material is used or disposed. Explain where the material re-enters the process if it is reused.	Identify any other solid waste associated with the APCD that must be replaced/disposed periodically (e.g., packing material, ceramic saddles)	Enter the frequency (years) in which control device packing material must be replaced/disposed, etc. This includes biofilter media, scrubber packing, or RTO/RCO/TCO packing material. For example, enter for 6 months enter 0.5 years.	Estimate the amount of material that must be disposed in cubic yards for the frequency interval specified in the previous column.	Select from list or write in for HAP controls. List multiple parameters for the same control device separated by commas (as shown in the example below).	If continuous THC monitoring is used to demonstrate compliance, enter the block average THC concentration limit based on the maximum THC concentration established during the performance test (as specified in 63.2262(o) and Table 2 of the PCWP NESHAP). (e.g., 20 ppm as Carbon)	Have monitoring alternative(s) to the PCWP rule has been approved? If so, please describe.
11	**Type of material collected in APCD**	**Quantity collected (dry ton/yr)**	**End use/method of disposal for solid material collected**	**Identify any other solid waste material associated with the APCD**	**Frequency of material replacement or disposal (years)**	**Amount of material to be disposed (if known)**	**List continuous parameter monitoring systems used for this control device**	**THC CEMS limit (include units of measure and averaging time)**	**Description of approved monitoring alternative(s)**
14							combustion chamber temperature	NA	
15							pressure drop, liquid flow rate	NA	
16	spent carbon	88	Landfilled offsite	packing material	4	UK	pressure drop, liquid flow rate	20 ppm (24-hr block average)	
17	Sanderdust	18000	burn in dryers	bags	2		NA	NA	bag leak detector
24	Sanderdust		NA				NA		
25	Sawdust/shavings unresinated		Used for fuel				liquid flow, voltage		
26	Sawdust/shavings resinated		Recycled back into PCWP process				pressure drop, liquid flow rate		
27	Pressed board trim		Landfilled onsite				combustion chamber temperature		
28	Unpressed board trim		Landfilled offsite				Other: {specify}		
29	General wood dust		Used for soil amendment						
30	Other: {specify}		Sale for offsite use						
31			Other: {specify}						
32									
33									

	CY	CZ	DA	DB	DC
1					
2					
5					
8					
9	**Routine Control Device Maintenance Exemption Use for HAP Controls**		**Control Device Startup for HAP Controls**		
10	Enter the percentage of time reported as routine maintenance control downtime in the semiannual report ending June 30, 2016. If quarterly reporting is required at the facility, add the value from the two applicable quarterly reports. (RM in equation 1 from §63.2281(c)(5)(i)(C).	Enter the percentage of time reported as routine maintenance control downtime in the semi-annual report ending December 31, 2016. If quarterly reporting is required at the facility, add the value from the two applicable quarterly reports. (RM in equation 1 from §63.2281(c)(5)(i)(C).	Supply startup information for APCDs that appear in the APCD ID column. Enter approximately how long it takes for the APCD to start up. Use decimal if less than one hour (e.g., 18 minutes = 0.3 hr). Supply information for routine startup events such as events associated with planned mill downtime. (Do not provide information for events associated with control device or process unit malfunctions). "Startup" means the setting in operation of an affected source or portion of an affected source for any purpose.	Write in response specifying when startup ends and normal operation begins (e.g., Startup ends when the control device reaches target operating temperature.)	List any control device parameter limits that cannot be met during startup. Certain parameters may be "instant on" while others are more transient in nature. Examples could include control device temperature that must heat up to a set point, or pressure drop that cannot be achieved due to low exhaust gas flow from the process unit. The EPA is particularly interested in emission limits or parameter limits originating from the PCWP NESHAP that cannot be met during startup but you may choose to indicate other required parameters that cannot be met.
11	**Percent of process unit uptime the control device is down for routine maintenance (RM) in the first 2016 semiannual compliance period**	**Percent of process unit uptime the control device is down for routine maintenance (RM) in the second 2016 semiannual compliance period**	**Approximate time required to start up APCD (hours)**	**What marks the end of start up and the beginning of normal operating conditions for the APCD?**	**List any control device continuous emissions monitoring or operating parameter limits that cannot be met during control device startup**
14	2	1.5	4	bed temperature limit reached	bed temperature
15	0	0	0.2	scrubber water flowing	pressure drop
16					
17	0	0	0.1	process gas enters baghouse	
24					NA - applicable emission and parameter limits are expected to be met during startup
25					minimum temperature
26					bed temperature
27					THC concentration
28					pressure drop
29					liquid flow
30					pH
31					opacity
32					other: {specify}
33					

	DD	DE	DF	DG	DH	DI	DJ	DK	DL
1									
2									
5									
8									
9	**Control Device Shutdown for HAP Controls**			**Control Device and Monitoring System Costs for HAP Controls Installed Within the Past 15 Years**					
10	Supply shutdown information for APCDs that appear in the APCD ID column. Enter approximately how long it takes for the APCD to shutdown. Use decimals if less than one hour (e.g., 18 minutes = 0.3 hr). Supply information for routine shutdown events such as events associated with planned mill downtime. (Do not provide information for events associated with control device or process unit malfunctions). "Shutdown" means the cessation of operation of an affected source or portion of an affected source for any purpose.	Write in response specifying when shutdown begins and normal operation ends (e.g., Shutdown begins when material throughput ceases to flow.)	List any control device parameter limits that cannot be met during shutdown. Certain parameters may be "instant on" while others are more transient in nature. Examples could include control device temperature that must heat up to a set point, or pressure drop that cannot be achieved due to low exhaust gas flow from the process unit. The EPA is particularly interested in emission limits or parameter limits originating from the PCWP NESHAP that cannot be met during control device shutdown but you may choose to indicate other required parameters that cannot be met.	Supply approximate capital costs for the HAP control system equipment.	Enter base year for the HAP control system capital costs (e.g., 2008).	Supply approximate capital costs of the continuous parameter monitoring system (CPMS) equipment for this HAP control device. Include in the equipment costs the analyzer and data acquisition system (DAS), if known.	Enter base year for monitoring system capital costs provided in the previous columns (e.g., 2008)	If known, supply approximate annual operation and maintenance (O&M) costs of the HAP emissions control system equipment for this control device.	Describe the types of costs included in the O&M cost estimate in the previous column (e.g., fuel, electricity, parts, materials, labor)
11	**Approximate time required to shut down APCD (hours)**	**What marks the end of normal operating conditions and beginning of process unit shutdown for the APCD?**	**List any control device continuous emissions monitoring or operating parameter limits that cannot be met during control device shutdown**	**Capital costs of HAP emissions control system ($)**	**Base year for control capital cost**	**Capital costs of parameter monitoring system ($)**	**Base year for CPMS capital cost**	**Annual O&M costs for HAP emissions control system ($/yr)**	**Description of annual O&M costs, including base year**
14	2	natural gas use curtailed; temperature drops below limit	bed temperature	$ 2,000,000	1998	$ 75,000	1998	$ 43,800	fuel cost
15	0.2	scrubber water shut off	pressure drop; liquid flow	unknown		unknown			
16									
17	0.1	process gas shut off			1998	$ 38,000	1998	$ 15,000	electricity, replacement bags
24			NA - applicable emission and parameter limits are expected to be met during shutdown						
25			minimum temperature						
26			bed temperature						
27			THC concentration						
28			pressure drop						
29			liquid flow						
30			pH						
31			opacity						
32			other: {specify}						
33									

	DM	DN
1		
2		
5		
8		
9		**Comments**
10	If known, supply approximate annual O&M costs for the CPMS for this control device.	Optional. Enter any comments you have on the data supplied.
11	**Annual O&M costs for CPMS ($/yr)**	**Comments**
14	$ 20,000	
15		
16		
17	$ 20,000	
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		

	A	B	C	D	E	F	G
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?			
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.			
3							
4							
5	**Complete this tab for each of the process units subject to compliance options or work practices under the PCWP NESHAP.**						
6							
7							
8	**Tab: SSM**						
9	**Survey Reference:**	**Pre-populated Data**			**Process Unit Startup**		
10	**Instruction:**	This is pre-populated from the Equipment Detail Tab.	This is pre-populated from the PCWP NESHAP to include process unit types with requirements under the PCWP NESHAP.	This is pre-populated from the Equipment Detail Tab.	Supply startup information for equipment that appear in the Process Unit ID column. Enter approximately how long it takes for the process unit to startup. Use decimals if less than one hour (e.g., 18 minutes = 0.3 hr). Supply information for routine startup events such as events associated with planned mill downtime. (Do not provide information for events associated with process unit malfunctions). "Startup" means the setting in operation of an affected source or portion of an affected source for any purpose.	Write in response specifying when startup ends and normal operation begins (e.g., Startup ends when the control device reaches target operating temperature.)	Enter measures employed to reduce emissions during startup. This includes measures employed to control emissions from combustion units, which normally supply combustion gases to direct-fired dryers, during periods when the combustion units are venting directly to the atmosphere. Potential menu choices are provided or you may write in a site-specific response.
11	**Field:**	**ICR ID**	**Process Unit ID**	**Process Unit Type**	**Approximate duration of process unit startup (hours)**	**What marks the end of process unit startup and beginning of normal operating conditions?**	**Measures employed to reduce air emissions during process unit startup (if any)**
14	**Example entry:**	9999	StrandDry-1	Rotary Strand Dryer	2.5	Shut off supplemental gas fuel and begin sanderdust firing and charge flakes into the dryer once drying temperature reached	Use gas instead of oil for startup/supplemental fuel
15		9999	Press-1	Reconstituted Wood Products Press	1	Press platen temperature reached and panels loaded into press	Route emissions from press enclosure to biofilter once steam heat to press is on
24	1						Operate air pollution control device during startup
25	2						Operate air pollution control device during startup, but not necessarily in compliance with the PCWP NESHAP operating parameter limits
26	3						other: {specify}
27	4						
28	5						
29	6						
30	7						
31	8						
32	9						
33	10						

	H	I	J	K	L	M
1						
2						
3						
4						
5						
6						
7						
8						
9	**Process Unit Shutdown**			**CMS Deviation Reporting**		
10	Supply shutdown information for equipment that appear in the Process Unit ID column. Enter approximately how long it takes for the process unit to shutdown. Use decimals if less than one hour (e.g., 18 minutes = 0.3 hr). Supply information for routine shutdown events such as events associated with planned mill downtime. (Do not provide information for events associated with process unit malfunctions). "Shutdown" means the cessation of operation of an affected source or portion of an affected source for any purpose.	Write in response specifying when shutdown begins and normal operation ends (e.g., Shutdown begins when material throughput ceases to flow.)	Enter measures employed to reduce emissions during shutdown. Potential menu choices are provided or you may write in a site-specific response.	Enter the percent of operating time that emissions during unplanned startup, unplanned shutdown or malfunction events caused emission limits to be exceeded during the semiannual reporting period ending in June 30, 2016 for equipment units currently subject to PCWP control requirements. [See §63.2281(e)(5)]. If quarterly reporting is required at the facility, add the amount from the first two quarterly reports in 2016. Submit copies of the 2016 semiannual compliance reports with your ICR response.	Enter the percent of time that emissions during unplanned startup, unplanned shutdown or malfunction events caused emission limits to be exceeded in the semiannual reporting period ending December 31, 2016 for equipment that appear in the Process Unit ID column. [See §63.2281(e)(5)]. If quarterly reporting is required at the facility, add the value from the second two quarterly reports in 2016.	Enter the total duration of the deviations during the semiannual reporting period ending June 30, 2016 due to startup, shutdown, control system problems, control device maintenance, process problems, and other causes [See §63.2281(e)(6)]. If quarterly reporting is required at the facility, add the amount from the first two quarterly reports in 2016.
11	**Approximate time required to shut down process unit (hours)**	**What marks the end of normal operating conditions and beginning of process unit shutdown?**	**Measures employed to reduce air emissions during process unit shutdown (if any)**	**Percent of time reported as deviations in the first 2016 semiannual compliance period as a result of unplanned SSM**	**Percent of time reported as deviations in the second 2016 semiannual compliance period as a result of unplanned SSM**	**Deviation duration (hours) during the first 2016 semiannual compliance period**
14	1.6	Flakes removed from dryer; shut off sawdust fuel feed	Continue to operate control device until the process unit ceases operation.	0.4	0.2	17
15	0.5	Last batch of panels is unloaded; shut off steam to press	Route emissions from press enclosure to biofilter until shutdown is complete	2.1	1.8	92
24			Operate air pollution control device during shutdown			
25			Operate air pollution control device during shutdown, but not necessarily in compliance with the PCWP NESHAP operating parameter limits			
26			other: {specify}			
27						
28						
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9		**Startup and Shutdown Standards**	**Comments**
10	Enter the total duration of the deviations during the semiannual reporting period ending December 31, 2016 due to startup, shutdown, control system problems, control device maintenance, process problems, and other causes [See §63.2281(e)(6)]. If quarterly reporting is required at the facility, add the amount from the second two quarterly reports in 2016.	OPTIONAL QUESTION. Input on appropriate standards that would be reasonable for PCWP process units during startup and shutdown is requested. Supply recommendations for the specific equipment appearing in the Process Unit ID column.	Optional. Enter any comments you have on the data supplied.
11	**Deviation duration (hours) during the second 2016 semiannual compliance period**	**Optional: Do you wish to recommend a standard that would apply during startup or shutdown of any process unit or APCD? If so, please describe the event to which the standard would apply; the recommended standard (this could be an emission limitation, work practice, or operational standard) that would apply during the period; the basis for the recommended standard; why and how the standard would minimize emissions during the event; and how would compliance be determined and/or monitored. Attach your suggestion to your survey response if it is too long for this space and consider including your SSM plan.**	**Comments**
14	84		
15	79	Operate biofilter as soon as press heat source is turned on if the APCD is a biofilter.	
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	A	B	C	D	E	F	G	H	I
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?					
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.					
3									
4	**Complete this table if your facility applies any PCWP miscellaneous coatings.**								
5	**Do not include coatings that are regulated by other federal emission standards such as subpart QQQQ (Surface Coating of Wood Building Products MACT).**								
6									
7									
8	**Tab: MiscCoat**								
9	**Survey Reference:**			**PCWP Miscellaneous Coating**					
10	**Instruction:**	This is pre-populated from the Mill tab if a Product is selected in the following column.	Select the product from the dynamic drop down menu. The menu is unique to data entered on the Prod Tab. Enter or repeat the product selection for each miscellaneous coating identified in separate rows.	Select each miscellaneous coating applied at the facility from the menu. Do not include coatings that are regulated by other federal emission standards such as subpart QQQQ (Surface Coating of Wood Building Products MACT).	Optional: Use this column to enter any additional coating description necessary to label the coating type	As defined in the PCWP rule, non-HAP coating means a coating with HAP contents below 0.1 percent by mass for carcinogens as specified by the National Toxicology Program (NTP) or International Agency for Research on Cancer (IARC), and below 1.0 percent by mass for other HAP compounds.	If this is a "Group 1 miscellaneous coating" as defined in the PCWP NESHAP, indicate what (if any) coating substitutions or changes in practices the facility made to comply with the requirement in the PCWP MACT to use non-HAP coatings for Group 1 miscellaneous coating operations (e.g., switched from solvent based to water based coating). **You do not need to fill out the rest of this tab for non-HAP coatings.**	For miscellaneous coatings that contain HAP (i.e., are not "non-HAP coatings," please respond to the questions in the following columns.	Select units of measure for the quantity of coating provided in the prior column. When possibly, please use gal/yr for liquid coatings, and lb/yr for dry coatings. Specify other units of measure as appropriate (e.g., ft, sq. ft, rolls).
11	**Field:**	**ICR ID**	**Product**	**Types of miscellaneous coatings used by mill**	**Optional coating description**	**Is the coating currently a "non-HAP coating?"**	**Changes made to comply with non-HAP coating requirement for Group 1 miscellaneous coating operations**	**Quantity of coating used per year (numeric)**	**Units of measure for quantity of coating used in previous column**
14	**Example entry:**	9999	Softwood Plywood	Anti-skid coatings		No	NA - Not Group 1	79,000	gal/yr
15		9999	OSB	Edge seals (panel products) [Group 1]	Blue edge seal	Yes	Switched to HAP-free coating		
24	1		***[dynamic list based on Column C of the "Prod" tab]***	Edge seals (panel products) [Group 1]		Yes	NA - Not Group 1		gal/yr
25	2			Anti-skid coatings		No	Switched to HAP-free coating		lb/yr
26	3			Primers			Other: {specify}		kg/yr
27	4			High or medium density overlay					feet
28	5			Paint - logo, etc [Group 1]					sq. ft.
29	6			Ink - nail lines [Group 1]					sq. meters
30	7			Ink - trademark/grade stamps [Group 1]					Other unit (explain in comment section)
31	8			Wood patch					
32	9			Synthetic patches [Group 1 at new sources]					
33	10			Wood putty [Group 1]					
34	11			Fire retardants applied during forming					
35	12			Concrete forming oil					
36	13			Veneer composing glues					
37	14			Shelving edge fillers [Group 1]					
38	15			Moisture sealants					
39	16			Asphalt					
40	17			Other Coatings {specify}					

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9	**HAP Information**							
10	The questions in this section only pertain to coatings containing HAP that do not meet the definition of non-HAP coating in the PCWP NESHAP. Identify individual HAPs present in the coating in amounts above those specified in the "non-HAP coating" definition.	Enter the maximum theoretical estimated annual emissions of the HAPs in the prior column in tons per year. This may be based calculated based on information from the MSDS sheet and annual coating usage. For example, if the MSDS indicates a specific HAP percentage is 10% by weight and usage is 10 tons/year, the estimate would be 1 ton.					List any additional HAP and their emissions (tons/yr) separated by commas (e.g., acetaldehyde 2 tpy, formaldehyde 5 tpy)	List any measures that reduce emissions of any HAP present in miscellaneous coatings
11	**HAP 1**	**Estimated annual HAP 1 emissions (tons/year)**	**HAP 2**	**Estimated annual HAP 2 emissions (tons/year)**	**HAP 3**	**Estimated annual HAP 3 emissions (tons/year)**	**Other HAP (tons/year)**	**Are measures in place at your mill for reducing emissions of these coating HAP? If yes, please describe.**
14	Formaldehyde	3.2	Methanol	4	Toluene	0.16	Xylene 0.11 tpy	Yes - coating is applied under a hooded process vented into press enclosure
15								
24	Acetaldehyde		Acetaldehyde		Acetaldehyde			
25	Ethyl benzene		Ethyl benzene		Ethyl benzene			
26	Ethylene glycol		Ethylene glycol		Ethylene glycol			
27	Formaldehyde		Formaldehyde		Formaldehyde			
28	Glycol ethers		Glycol ethers		Glycol ethers			
29	Methanol		Methanol		Methanol			
30	Methyl isobutyl ketone (Hexone)		Methyl isobutyl ketone (Hexone)		Methyl isobutyl ketone (Hexone)			
31	Methylene diphenyl diisocyanate (MDI)		Methylene diphenyl diisocyanate (MDI)		Methylene diphenyl diisocyanate (MDI)			
32	m-Xylenes		m-Xylenes		m-Xylenes			
33	o-Xylenes		o-Xylenes		o-Xylenes			
34	Propionaldehyde		Propionaldehyde		Propionaldehyde			
35	p-Xylenes		p-Xylenes		p-Xylenes			
36	Styrene		Styrene		Styrene			
37	Toluene		Toluene		Toluene			
38	Triethylamine		Triethylamine		Triethylamine			
39	Xylenes (isomers and mixture)		Xylenes (isomers and mixture)		Xylenes (isomers and mixture)			
40	Other: {specify}		Other: {specify}		Other: {specify}			

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9			**Comments**
10	Select yes, no, or unknown	Describe any barriers to switching to non-HAP substitutes (e.g., cost of the non-HAP substitute, equipment issues, etc.)	Optional. Enter any comments you have on the data supplied.
11	**Are non-HAP substitutes available for each HAP-containing miscellaneous coating?**	**Barriers to switching to non-HAP substitutes**	**Comments**
14	Yes	Non-HAP version costs $70 more per gallon	
15			
24	Yes		
25	No		
26	Unknown		
27			
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	A	B	C	D	E	F
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?		
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.		
3						
4	**Complete this table to describe wastewater treatment at your facility or process wastewater that is treated offsite (e.g., POTW).**					
5	**If your facility treats process wastewater, has obtained a wastewater permit establishing an effluent limit, or sends process wastewater to a POTW, provide a flow diagram of each wastewater treatment process showing each wastewater l**					
6						
7						
8	**Tab: WW**					
9	**Survey Reference:**		**Facility Zero Discharge Information**			
10	**Instruction:**	This is pre-populated from the Equipment Detail Tab if wastewater operations are reported.	For purposes of the survey, "HAP-containing" process waters are waters with the concentration of any HAP in excess of 1 ppm.	Select yes or no. The exclusions for PCWP facilities subject to subparts B, C, D and M of 40 CFR part 429 were codified 7/30/2004. Facilities qualifying for the exclusion would have obtained a Best Practicable Technology (BPT) and Best Available Technology (BAT) effluent limitation established on a case-by-case basis under 40 CFR 125.3.	Select yes or no. If your facility uses a wet control device as the exclusive means of HAP control for any process unit listed in Table 1B of the PCWP rule (40 CFR 63, subpart DDDD), answer yes. Facilities using this options will also have been required to meet the performance testing and initial compliance demonstration requirements under subpart DDDD Table 5 (row 8) and the continuous compliance and operating requirements under subpart DDDD Table 7 (row 6).	If the facility either does not generate HAP-containing process waters or has had no reason to obtain a wastewater permit with effluent limits, answer NA below and stop here; there is no need to complete the remainder of this tab. For facilities that generate HAP-containing process waters or wastewaters with effluent limits, complete the remainder of this tab and provide a copy of your permit and the technical support information for the 40 CFR part 429 control equipment exclusion, the BPT and BAT. Also, if a permit was obtained separately under subparts B, E or N provide copies of those effluent limit permits. This includes limits established by POTWs. If PCWP process wastewater is sent to a POTW for treatment, respondents will only need to complete the spreadsheet as far as the POTW information in column K.
11	**Field:**	**ICR ID**	**Does the mill generate HAP-containing process waters from equipment or air pollution control devices that require onsite or offsite wastewater treatment to remove HAP?**	**Did the mill obtain a case-by-case discharge permit under 40 CFR 125.3 for process wastewaters generated from oxidizer washouts, biofilters, WESP or other equipment under the exclusion of HAP pollution control equipment?**	**Did your facility use a wet control device as the exclusive means of HAP control for any process unit listed in Table 1B of the PCWP rule?**	**Provide a copy of your wastewater effluent limit permits and any case-by-case BPT/BAT analyses**
14	**Example entry:**	9999	Yes	No	No	Mill generates HAP-containing process wastewater but does not have an effluent limit wastewater permit
15		9999	Yes	Yes	Yes	Effluent limit permits provided
16		9999	No	No	No	NA-Facility does not generate HAP-containing Process Wastewater or have a wastewater permit with effluent limits
24	1		Yes	Yes	Yes	NA-Facility does not generate HAP-containing process wastewater or have a wastewater permit with effluent limits
25			No	No	No	Effluent limit permits provided
26						Mill generates HAP-containing process wastewater but does not have an effluent limit wastewater permit
27						
28						
29						
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1								
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3								
4								
5	handling/treatment unit							
6								
7								
8								
9	**Facility Compliance Demonstrations**	**Facility Discharge of Process Water to POTW**				**Onsite Wastewater Treatment Plant (WWTP) Information**		
10	If your facility uses a wet control device as the exclusive means of HAP control for any process unit listed in Table 1B of the PCWP rule, attach a copy of the plan required under Table 5 (row 8) and Table 7 (row 6) of the PCWP rule that demonstrate how HAP captured exclusively by a wet device are collected, contained and destroyed to minimize HAP being re-emitted to the atmosphere. Enter 'Plan Attached' or NA.	If your facility discharges of HAP-containing process wastewater to a Publicly Owned Treatment Works (POTW) facility, identify the name of the facility. If the facility does not send wastewater to a POTW, this section of the tab can be left blank. Separately, attach a copy of the technical requirements for treatment agreed upon with the POTW for the facility's wastewater including information on how HAP are contained and destroyed to minimize HAP being re-admitted to the atmosphere.	Identify whether the process wastewater is collected in a tank or in an open pond at the facility prior to discharge to the POTW.	If applicable, select yes or no regarding whether the process wastewater is predominantly enclosed (hardpiped) to the POTW from the facility, with the exception of lift station vents.	Identify which process wastewater streams are sent to the POTW. Identify the source of wastewater with its Process Unit ID or APCD ID. If all the process wastewater is sent to the POTW, state 'All.' If all process wastewater is sent to a POTW, you can stop at this point in the tab.	You may enter one row or separate rows in columns M through Z for different sources of wastewater or for different wastewater streams with different treatment sequences. Identify the primary sources of wastewater using the relevant Process Unit IDs and/or APCD IDs from the *EquipDetail* tab separated by commas.	Enter the 2016 average daily throughput of the wastewater treatment plant (gallons per day)	Select the general type of WWTP used by your mill. Select from menu or write in a description.
11	**Provide a copy of your initial and continuous compliance plans for destruction of HAP collected by a wet control device**	**Does the facility discharge HAP-containing process wastewater to a POTW?**	**Is the process wastewater collected in a tank or in an open pond prior to discharge to the POTW?**	**Is the process wastewater enclosed as it is sent to the POTW?**	**Which process wastewater streams are sent to the POTW?**	**Source(s) of wastewater Process Unit ID or APCD ID**	**WWTP throughput gal/day**	**General type of wastewater treatment system**
14	NA	Yes	Enclosed tank	Yes	All			
15	Plan attached	No	Open pond	No	NA	WESP1, WESP2	48,000	Aerated Stabilization Basin
16								
24	Plan attached	Yes	Enclosed tank	Yes				Aerated Stabilization Basin
25	NA	No	Open top tank	No				Activated Sludge Biological Treatment
26			Open pond					UNOX or other packaged system
27			NA					Anaerobic Treatment
28								Settling Pond
29								Stormwater pond
30								Other: {specify}

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9	**Onsite Wastewater Treatment Units**			**Onsite Wastewater Air Emission Limits and Monitoring**			
10	List the wastewater treatment units in your WWTP (separated by commas) in the general sequence in which wastewater flows through the units. Include any primary and/or secondary clarifiers, oil-water separators, equalization basins, neutralization, activated-sludge biological treatment units, aerated or non-aerated surface impoundments, anaerobic digesters, other biological treatment units (trickling filters, rotating biological contactors), wastewater storage tanks, and any other wastewater treatment units. Do not include steam or air strippers, or effluent cooling towers. Provide a flow diagram showing each wastewater handling/treatment unit.	Describe any practices used to minimize or prevent HAP emissions from the wastewater treatment area.	Describe the final disposition of the wastewater. For example: Reused in APCD ID _____, Reused in process Process Unit ID _____, NPDES discharge, etc.	Specify yes/no.			Select yes or no. If yes, submit the most recent measurement methods and results as a separate file attachment to your survey response.
11	**List the wastewater treatment units (by process unit ID) in your WWTP in the general sequence in which they are used**	**Practices used to minimize or prevent HAP emissions from the wastewater treatment area.**	**Final disposition of the wastewater**	**Does the mill have permit limits (including occupational health limits) related to air pollutants specifically from wastewater sources?**	**If yes, please specify the limits (and applicable units) and explain how compliance is demonstrated with these limits.**	**Have HAP emissions modeling or measurements been undertaken to estimate potential emissions from the wastewater treatment area?**	**Has fenceline monitoring for air emissions (including WWTP air emissions) been performed?**
14							
15	SettlingPond, Aeration-DischargePond	Hard-piped discharge under the settling pond surface	NPDES discharge	Yes	10 tpy methanol; modeling of emissions at maximum effluent flow; continuous monitoring of liquid flow rate	Yes	No
16							
24				Yes		Yes	Yes
25				No		No	No
26							
27							
28							
29							
30							

	V	W	X	Y	Z
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9					**Comments**
10	Select yes or no. If yes, submit the most recent measurement methods (e.g., ambient measurements) and results as a separate file attachment to your survey response.	Select yes or no. If yes, submit documentation of the most recent modeled emission estimates as a separate file attachment to your survey response.	If no fenceline monitoring, measurements (e.g., ambient measurements), or estimates of emissions from the wastewater treatment system have been conducted, please explain how wastewater treatment system emissions are accounted for in your air operating permit. In you explanation, list the specific wastewater treatment system air pollutants for which limits are specified in your air permit. Select not applicable "NA" from menu if you answered yes to one of the previous 3 questions. Select from menu if air emissions associated with wastewater treatment are not addressed in your air permit.	If any wastewater treatment units are equipped with a closed vent collection system and air pollution control device (APCD), then you should also include the wastewater treatment unit in the Process Unit ID column of the EquipDetail and APCD tabs and indicate the APCD information in those tabs.	Optional. Enter any comments you have on the data supplied.
11	**Have air emissions associated with the WWTP been measured?**	**Have air emissions associated with the WWTP been estimated (e.g., with 40 CFR part 63 Appendix C and WATER9 or another model)?**	**Explain how wastewater treatment system air emissions are accounted for in your air permit if you answered "no" to the previous 3 questions**	**Identify any wastewater treatment units that are closed systems. Indicate controls if the unit is equipped with a closed vent collection system and APCD.**	**Comments**
14					
15	No	Yes	NA	NA	Initial modeling of air emissions was completed when the WESPs were added.
16					
24	Yes	Yes	Air emissions associated with wastewater treatment are not addressed in the facility's air permit		
25	No	No	NA		
26					
27					
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	A	B	C	D	E	F	G	H	I	J
1	**OMB Control No:**	2060-0718		Did any of the responses (individual cells) you entered in this tab contain confidential business information (CBI)?						
2	**Expiration Date:**	10/31/2020		If yes, be sure to shade the CBI-containing cells **RED** and follow the directions for submitting CBI data in the survey instructions document.						
3										
4	**Attach an electric, searchable test report for all tested PCWP process units and pollutants listed in Appendices 2 and 3 of the ICR Instructions document.**									
5	**Provide information on enclosure capture efficiency testing in the Press and BC tabs.**									
6										
7										
8	**Tab: EmTest**									
9	**Survey Reference:**		**Test Report**		**Equipment information**					
10	**Instruction:**	This is prepopulated from the Mill Tab when a test report file name is entered in the next column.	In this tab, list the test reports for previous emissions test provided with your ICR response. Enter one PCWP (emission release point) and pollutant per row. Enter the file name of the test report provided (e.g., Woodmill_Dryer1_HAP2006.pdf, Woodmill_Press2_THC2008.pdf). Repeat the name of the test report on each row for every combination of PCWP emission release point and pollutant for which test data are provided.	Enter year testing was conducted (i.e., the test date year)	After entering a test report name in column C, use the drop down menu to select the Emission Release Point ID tested. The menu list provided is based on the Process Unit IDs you specified in the EquipDetail tab. The value entered will prepopulate other columns in this tab. Duplicates are expected. Reenter the Emission Release Point ID for every emissions test report and pollutant test that is provided for the release point.	This is prepopulated from EquipDetail based on the Emission Release Point ID you enter in this tab. If you indicated on the EquipDetail tab that multiple Process Unit IDs vented through this Emission Release Point ID, you will see all Process Unit IDs associated with this Emission Release Point ID separated by commas (e.g., Dryer1, Dryer2). This column is for informational purposes only; the EPA will review stack test reports submitted to verify which process units were operated at the time of the test.	This is prepopulated from EquipDetail based on the Emission Release Point ID you enter in this tab. If you indicated on the EquipDetail tab that multiple Process Unit IDs vent through this Emission Release Point ID, you will see all Process Unit Types associated with this Emission Release Point ID separated by commas. This column is for informational purposes only; the EPA will review stack test reports submitted to verify which process unit types were operated at the time of the test. Repetitive process unit types will be condensed in the EPA's data base.	This is prepopulated from EquipDetail based on the Emission Release Point ID you enter in this tab. This column if for information only; duplicate products will be condensed in EPA's data base.	Select the APCDs used during the emission test (i.e., the APCD or combination of APCDs upstream of the sampling location). Examples include RCO, WESP/RTO, BH, etc.	If there is no control device, choose "outlet" from the drop down menu. Otherwise specify if APCD inlet or outlet data (or both) are provided in the test report.
11	**Field:**	**ICR ID**	**File name of test report provided**	**Test report year (XXXX)**	**Emission Release Point ID**	**Process Unit IDs vented to release point tested**	**Process Unit Type**	**Product**	**Air Pollution Control System During Test**	**Are inlet or outlet data provided?**
14	**Example entry:**	9999	Woodmill_Dryer1_HAP2006.pdf	2006	RTOstack	Dryer1	Conveyor strand dryer	OSB	RTO	Outlet
15		9999	Woodmill_Dryer1_HAP2006.pdf	2006	vent 3	Dryer1	Conveyor strand dryer	OSB	None	Outlet
16		9999	Woodmill_Press1_HAP2006.pdf	2006	5	TubeDry2, Press1	Secondary tube dryer, Reconstituted wood product press	Particleboard, Particleboard	BIO	Inlet and outlet
24	1				***[dynamic list based on Columns S through W of the "EquipDetail" tab]***				None	Inlet
25	2								RTO	Outlet
26	3								WESP/RCO	Inlet and outlet
27	4								WESP/RTO	
28	5								MC/RTO	
29	6								RBP/RTO	
30	7								RCO	
31	8								MC/RCO	
32	9								TCO	
33	10								MC/TCO	
34	11								TO	
35	12								BIO	
36	13								SCBR	
37	14								WESP	
38	15								ESP	
39	16								MC	
40	17								MC/WESP	
41	18								BH	
42	19								BH/WESP	
43	20								CYC	
44	21								EFB	
45	22								SF	
46	23								Other: {specify}	

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10	Select the pollutant tested from the menu. See instructions for more information. If THC was measured as part of an OTM-26 procedure (which includes Method 25A), please supply the Method 25A THC (as propane) test result.	Enter the test method number. Include HAP, VOC, PM and Opacity tests conducted on each source (e.g., EPA Methods 316, 25a, 5 or 9). Be very specific on the blank line if the method is not on the drop down menu.	List pollutants included in the test report other than HAP, THC, PM, metals, or opacity, and note the process units tested. Do not include process units outside of the PCWP source category or process units and pollutants listed elsewhere in this tab.	Select "Yes" if the emission point tested was isolated from other emissions points (e.g., via use of in-stack test ports). Select "No" if the emission point tested was not isolated from emissions from other nearby emission units (e.g., a fugitive vent tested that draws air from multiple process units). Select "Unknown" if you are unsure. If available, please include any results of enclosure capture efficiency testing conducted as part of the emissions test. (Submittal of capture test results is optional.)	If you answered "No" in the previous column, please explain.	Select Yes/No	If you answered "No" in the previous column, please explain.
11	**Pollutant**	**Test method(s) used**	**Other process units/pollutants included in the test report**	**Was the emission point tested isolated from other nearby emission points?**	**If you answered "No" in the previous column, please explain.**	**Is the process unit production rate specified in the test report?**	**If you answered "No" in the previous column, please explain.**
14	THC (as carbon) minus methane	EPA Methods 25A (for THC) and 18 (for methane)	Dryer1 RTO (NOx, CO); Dryer2 (NOx)	Yes		Yes	
15	THC (as carbon)	EPA Method 25A	Dryer1 RTO (NOx, CO); Dryer2 (NOx)	Yes		Yes	
16	Formaldehyde	EPA Method 320	NA	No	Release point contains multiple process exhaust streams	No	The SPWpress1 vent tested is also impacted by emissions from SPWpress2 and the adjacent glue line.
24	Methanol	EPA Method 308		Yes		Yes	
25	Formaldehyde	EPA Method 320		No		No	
26	Acetaldehyde	EPA Method 316		Unknown			
27	Acrolein	EPA Method 25A					
28	Phenol	EPA Methods 25A (for THC) and 18 (for methane)					
29	Propionaldehyde	EPA Method 0011					
30	THC (as carbon)	NCASI Method CI/WP-98.01					
31	THC (as carbon) minus methane	NCASI Method IM/CAN/WP-99.02					
32	THC (as propane)	NCASI Method ISS/FP-A105.01					
33	MDI	ASTM D6348-03					
34	PM	EPA Method 5					
35	PM10	EPA Method 29					
36	PM2.5	EPA Method 17					
37	Opacity (Method 9)	EPA Method 201A					
38	HAP metals	EPA Method 202					
39	POM	EPA Method 201A/202					
40		EPA Method 9					
41		ASTM D7770					
42		CTM-031					
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9						**Comments**
10	This question will be used in determining whether the test data remain representative of your current operations.	Explain any changes in equipment configuration as they relate to representativeness of the emissions test data supplied.	Use this column for notes or if helpful to specify the emission points tested (e.g., for equipment with multiple emission points, where only selected emission points/vents were tested)	Data regarding frequency and cost of testing would help EPA more accurately estimate testing costs associated with any testing requirements that may be added to the PCWP NESHAP.	For tests conducted in 2004 or later, enter approximate cost per test for the pollutant listed. For test methods that measure multiple compounds (e.g., NCASI A105.01), the total cost of the test is of interest, not the itemized lab cost for each pollutant measured by the method.	Optional. Enter any comments you have on the data supplied.
11	**Has the configuration of the process unit, combustion controls, collection system, or APCD changed since the test was conducted?**	**If yes, please explain**	**Process testing notes (optional)**	**How often are you required by your permitting authority to perform testing of this process unit for the pollutants listed?**	**Approximate cost per test, $**	**Comments**
14	No		Uncontrolled vent 3 tested separately	one-time test only	12000	
15	No		RTO-controlled vents 1-2 tested separately	one-time test only	8000	
16	Yes	Biofilter media type upgraded in 2010 to support more active biota		annual	14000	Test cost is for inlet + outlet (2 sampling locations)
24	Yes			one-time test only		
25	No			monthly		
26				annual		
27				every other year		
28				every 5 years		
29				other: {specify}		
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1	**OMB Control No:**	2060-0718								
2	**Expiration Date:**	10/31/2020								
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5	**Select pollutants and enter HAP emissions in this tab for each release point identified earlier in this survey. A total of 50 rows are provided for each emission release point. Use 1 row per pollutant. You may hide extra rows for easier viewing. Blank rows are provided**									
6										
7										
8	**Tab: HAP Emissions**									
9	**Survey Reference:**	**Pre-populated Data**					**Emission Dates --- REQUIRED**		**HAP Emissions --- REQUIRED**	
10	**Instruction:**	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab.	This is pre-populated from the EquipDetail Tab. See instructions document for examples of how to provide emissions data for release points appearing more than once for different process units.	Enter the start and end dates of the emission estimates provided in each row of this worksheet. The default is 20160101 to 20161231 for January 1 to December 31, 2016.		Select HAP from the list. Write in any additional HAP known to be emitted. Notes: 1. See column AI for a list of pollutants with available provisional emission calculations for this SCC. 2. HAP must be spelled exactly as they appear in the list below for the provisional calculations to work. 3. Writing in additional HAP known to be emitted is encouraged but provisional calculations are not provided for write-in HAP.	Pre-populated based on the pollutant selected in the previous column. "User-added" indicates pollutants added but are not included in the provisional calculations
11	**Field:**	**ICR ID**	**FRS Site ID**	**Process Unit Type**	**Process Unit ID**	**Emission Release Point ID**	**Start Date (YYYYMMDD)**	**End Date (YYYYMMDD)**	**Pollutant**	**Pollutant type note**
14	**Example entry:**	9999	999999999999	Rotary strand dryer	OSBdryer1	RTO1stack	20160101	20161231	Methanol	organic
15		9999	999999999999	Rotary strand dryer	OSBdryer2	RTO1stack	20160101	20161231	Methanol	organic
16		9999	999999999999	Primary tube dryer	TubeDry	s01	20160101	20161231	Manganese	metal
17		9999	999999999999	Hardwood veneer dryer	HVdryer2	a	20160101	20161231	Acetaldehyde	organic
18		9999	999999999999	Hardwood veneer dryer	HVdryer2	b	20160101	20161231	Acetaldehyde	organic
24	1								***[See Appendix 9 of the PCWP ICR Instructions]***	
25	1									
26	1									
27	1									
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35	1									
36	1									

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5	**at the end of the sheet in case more than 50 rows are required for an emission poin**				
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10	Select the method used to determine or calculate actual emissions.	Select "Yes" if you would like to review and enter data into the optional provisional calculations. Choose "No" or leave this column blank if you are providing site-specific emissions data.	Enter actual annual emissions calculated from test data, emission factors, mass balance or other means. Site-specific emissions data are preferred, but you may choose the use the "Provisional Calculated Actual Emissions (tons/yr)" value in this section by pasting it as a value in this column and selecting "99-PCWP Provisional Calculation" in the "Method for Determining Emissions" column.	Enter allowable emissions, which may be the same or greater than actual emissions. For example, actual emissions may be 0.5 tpy based on an actual emission reduction of 99%, but 5 tpy based on the 90% reduction allowable under the PCWP rule and/or your permit limit. If no standard or permit limit applies, the actual and allowable emissions are equal. Site-specific emissions data are preferred, but you may choose the use the "Provisional Calculated Allowable Emissions (tons/yr)" value in column AC by pasting it as a value in this column.	Enter an estimate of the highest short term emissions (lb/hr) during the calendar year. For example, emissions may peak when a control device is unavailable, or during the highest throughput achieved during the year. Site-specific emissions data are preferred, but you may choose the use the "Provisional Calculated Maximum Emissions (tons/yr)" value in column AD by pasting it as a value in this column.
11	**Method for Determining Emissions**	**View Provisional Emission Calculations**	**Estimated Actual Emissions (tons/year)**	**Estimated Allowable Emissions (tons/year)**	**Estimated Maximum Emissions (pounds/hour)**
14	02 - Source Test	No	0.23	0.77	1.5
15	02 - Source Test	No	Total RTO1stack emissions provided above	Total RTO1stack emissions provided above	1.1
16	99 - PCWP Provisional Calculation	Yes	0.47243	0.47243	1.1116
17	99 - PCWP Provisional Calculation	Yes	0.1505	0.1505	0.039
18	99 - PCWP Provisional Calculation	Yes	0.1505	0.1505	0.039
24	01 - CEMS	Yes			
25	02 - Source Test	No			
26	03 - Emission Models				
27	04 - Information Collection Request				
28	05 - Material Balance				
29	06 - Speciation Profile				
30	07 - Emission Factor				
31	08 - Default Category Emissions Profile				
32	09 - Manufacturer Specification				
33	10 - MSDS				
34	11 - Engineering Judgement				
35	99 - PCWP Provisional Calculation				
36	NA - No Known HAP Emissions				

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9	**Provisional Calculation Tool Parameters --- for OPTIONAL use**					
10	This is pre-populated from the ReleasePt tab	This column is not the SCC description. This column contains a description of the most closely related organic HAP emission factor available that is used in the provisionally calculated emissions values in this spreadsheet for each pollutant. You may use the provisionally calculated emissions in the absence of more representative site-specific data. This column is provided for information only to aid in your review of the representativeness of the calculated emissions.	This column contains the source of the organic HAP emission factor used in the provisional calculations. This column is provided for information only to aid in your review of the representativeness of the provisional emissions calculations. Metal HAP emission factors were derived as described in the instructions document.	This is pre-populated based on entries in process-specific tabs	This is pre-populated based on entries in process-specific tabs	This is pre-populated based on the EquipDetail tab
11	**SCC**	**Most Closely Related Available Emission Factor Description for Organic HAP**	**Organic HAP Emission Factor Source**	**2016 Throughput**	**Throughput units of measure**	**Process Unit 2016 Operating Hours (hr/yr)**
14	30701009	OSB, rotary, direct wood-fired, softwood	AP-42, Ch 10.6.1	100000	ODT/yr	8430
15	30701009	OSB, rotary, direct wood-fired, softwood	AP-42, Ch 10.6.1	100000	ODT/yr	8430
16	30700916	MDF, tube, direct wood-fired, blowline blend, UF, softwood	AP-42, Ch 10.6.3	75000	ODT/yr	8500
17	30700756	HPW, veneer, indirect heated, hardwood (heated zones)	AP-42, Ch 10.5	70000	MSF/yr 3/8”	7700
18	30700756	HPW, veneer, indirect heated, hardwood (heated zones)	AP-42, Ch 10.5	70000	MSF/yr 3/8”	7700
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10	This is pre-populated based on the EquipDetail tab	Default = 1. For process units with multiple release points, enter the decimal fraction of calculated emissions apportioned to the release point listed in column F. For example, for a process with 2 stacks you might enter 0.5 to apportion half of the calculated emissions to each stack.	Enter the measured or estimated combined collection and control efficiency for organic HAP across the APCD system in the previous column. For example, a dryer stack may be 100% collected x 90% controlled for an overall collection-control efficiency of 0.9. A press with a partial capture system collecting 90% of press exhaust and controlling it by 95% HAP reduction would have a combined collection-control efficiency of 0.90 x 0.95 = 0.855.	Enter an estimated PM control efficiency across the APCD system as a decimal percent for use in the provisional HAP metals emissions estimates. Notes: 1. It may be assumed that HAP metals are emitted in particulate form and therefore are controlled as PM, with the exception of certain forms of mercury. 2. Enter zero for the PM control efficiency for non-particulate (gaseous) forms of mercury. 3. If no site-specific (or otherwise representative) information is available you may assume 0.99 for wet or dry ESPs or baghouses, 0.95 for wet scrubbers, or 0.90 for cyclone or multiclone mechanical collectors.	This is pre-populated based on the total MMBtu reported for wood or bark firing in the DFDryFuel tab.
11	**APCD System**	**Release point emissions apportionment fraction**	**Estimated combined organic HAP collection-control efficiency**	**Estimated PM control efficiency**	**Direct wood-fired dryer MMBtu/hr**
14	WESP/RTO	1	0.97		
15	WESP/RTO	1	0.97		
16	MC/RTO	1		0.9	28
17	None	0.5	0		
18	None	0.5	0		
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9	**Provisional Emissions Calculations --- for OPTIONAL use**							
10	Enter the numeric value for a site-specific (or otherwise representative) emission factor to be substituted in the provisional calculations to the right instead of the EPA provisional numeric emission factor. This substitute calculation option is only available for pollutants in the pollutant list provided in column I. You must provide independent calculations of emissions for "user-added" pollutants. Important: The units of measure for any site-specific emission factor must match (1) the units of measure for the production rate provided in column R, and (2) the units shown in column AA for the provisional calculation results to be correct.	Units of measure for the emission factor used in the provisional calculation. The units in measure must be consistent with the production rate in column R.	Default emission factor provided for the SCC. If blank, no emission factor is available.	Default scalar to adjust throughput to match emission factor when needed. If blank no scalar is available.	Default scalar units of measure.	Emissions calculated using the PCWP ICR emissions calculation tool. Site-specific emissions data are preferred, but if not available you may use this conservatively calculated value.	This column contains "allowable" emissions considering the compliance margin between actual emissions and applicable emission limit. Emissions are calculated based on the difference in actual vs. allowable organic HAP control efficiency. Actual = Allowable if no organic HAP control is used, and for all metals because the PCWP rule does not currently limit metal HAP emissions.	This column estimates the highest short term emissions (lb/hr) during the calendar year. The maximum short-term emissions are calculated as the annual uncontrolled emissions divided by annual operating hours to approximate maximum lb/hr assuming there is 1 hour when the process is operating but the control device is out of service (e.g., during the PCWP routine control device maintenance exemption).
11	**Site-specific Numeric Emission Factor (Optional)**	**Units for Numeric Emission Factor**	**Provisional Numeric Emission Factor (if available)**	**Emission Factor Scalar**	**Scalar UOM**	**Provisional Calculated Actual Emissions (tons/yr)**	**Provisional Calculated Allowable Emissions (tons/year)**	**Provisional Calculated Maximum Emissions (pounds/hour)**
14		lb/ODT	0.1	1	Unity	0.15	0.5	1.186
15		lb/ODT	0.1	1	Unity	0.1125	0.375	0.915
16		lb/MMBtu	0.0397	1	Unity	0.47243	0.47243	1.1116
17		lb/MSF 3/8	0.0043	1	Unity	0.1505	0.1505	0.039
18		lb/MSF 3/8	0.0043	1	Unity	0.1505	0.1505	0.039
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9		**Comments**
10	This column provides a list of the pollutants with provisional emissions calculations. This column may be useful for respondents when identifying the pollutants in column I.	Optional. Enter any comments you have on the data supplied.
11	**Pollutants with Available Provisional Calculations for this SCC**	**Comments**
14	Acetaldehyde, Acrolein, Formaldehyde, Methanol, Phenol, Propionaldehyde, Benzene, Cumene, MIBK (4-Methyl-2-Pentanone), Toluene, Xylenes, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Lead, Manganese, Mercury, Nickel, Selenium, Chromium III, Chromium VI, Elemental Gaseous Mercury, Gaseous Divalent Mercury, Particulate Divalent Mercury	Two dryers OSBdyer1 and OSBdryer2 vent to RTO1. Stack test results for both dryers at RTO1 outlet are provided in this row.
15		Total RTO1stack emissions provided above for actual and allowable.
16	Formaldehyde, Antimony, Arsenic, Beryllium, Cadmium, Chromium, Cobalt, Lead, Manganese, Mercury, Nickel, Selenium, Chromium III, Chromium VI, Elemental Gaseous Mercury, Gaseous Divalent Mercury, Particulate Divalent Mercury	Metal example
17	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK (4-Methyl-2-Pentanone)	By choosing 0.5 for the "release point emissions apportionment fraction," half of the veneer dryer total emissions are apportioned to release point "a" and half go to point "b."
18	Acetaldehyde, Formaldehyde, Methanol, Phenol, MIBK (4-Methyl-2-Pentanone)	
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1	**OMB Control No:**	2060-0718				
2	**Expiration Date:**	10/31/2020				
3						
4	**Complete this form when you have completed the survey.**					
5						
6	**Note that the information submitted by a facility is not intended for a compliance assessment. If actual data are not available, the facility should provide the best engineering estimates where appropriate. In addition, it is not the intent of the EPA to use this data to confirm data/information submitted in the facility's Toxic Release Inventory (TRI) or other regulatory required reports. It is understood that data submitted in this survey could vary due to the nature of the questions.**					
7						
8						
9	**Tab: Certification**					
10	**Instruction:**	By checking the box below, you agree that this certification statement is true:	**"Based on information and belief formed after reasonable inquiry, I certify that the statements and information provided in my response to this survey are (to the best of my knowledge) true, accurate, and complete."**			
11	**Field:**	**Signature**	**Name**	**Title**	**Company**	**Date Signed**
24	1	☐				
25						