MB Control No:	XXXX-XXXX	Did any of the responses (individual cells) you entered in this tab contain CBI?
Expiration Date:	xx/xx/xxxx	If yes, be sure to shade the CBI-containing cells red and follow the instructions in section C of the survey overview document for submitting CBI.
Review Draft		

UK = Unknown. NA = Not Applicable. See instruction document for details on use of these terms. "Nominal daily throughput capacity" is defined as the typical operating rate for the emission unit. Pulp and Paper sector facility data.

Instruction:	Provide for all entries. This should match NEI Site ID used in Part II of this survey (the NEI update). If no NEI Site ID exists for your facility in Part II, use a temporary ID of 'NEW where the blank is your facility's zip code.	Name of legal operator of facility	Complete street addres	s of facility (physical lo	ocation)			Provide mailing	address if differei	nt than physical location		Facility contact able to answe	r technical questions about the con
Survey reference:													
Field:	NEI Site ID	Legal operator	Physical address	Physical city	Physical state	Physical zip	Physical county	Mail address	Mail city	Mail state Mail zip Mai	I county	Facility contact name	Facility contact title

OMB Control No: Expiration Date: Review Draft UK = Unknown. NA = Not Applic: "Nominal daily throughput capacity" Pulp and Paper sector facility da											
Instruction:	npleted survey				If not the same as legal opera	tor, provide name and address of leg	al owner of t	this facility	Dun and Bradstreet Number for the legal owner of this mill (see TRI Form R)	(Optional) Dun and Bradstreet Number for this mill (if the mill has its own Dun and Bradstreet Number)	If you operate a non-major source, follow the instructions in the survey overview document for notifying EPA to determine if you should complete this survey. See the 40 CFR part 63 subpart A definition of "major source" in the survey overview document Attachment 1.
Survey reference:											
Field: Example entry:	Facility contact phone 1999-999-9999	Facility contact ext 450	Facility contact fax	Facility contact email	Legal owner address 100 Corporate Blvd	Legal owner city Green Bay	Legal owner state Wi	Legal owner zip 54304	Dun Bradstreet owner 902077	Dun Bradstreet mill 7 149810921	HAP size classification

OMB Control No: Expiration Date: Review Draft UK = Unknown. NA = Not App "Nominal daily throughput capaci Pulp and Paper sector facility	ic; by" da								
Instruction:	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 unrelate establishments owned by the parent company. Please count full-time, part-time, and temporary employees equally.	Enter the number of d facility employees (full- t time, part-time, and temporary employees s should be counted equally)	The small business size standards for NAICS 322 are based on number of employees of the parent company: 750 employees for NAICS 322110-322130, 322212, and 322215; and 500 employees for all other 322xxx NAICS. See also Attachment 2 of the Part I survey instructions.	Indicate "app Mark "NA" if other standa	olies" for each feder not applicable (or if rds list the subparts	al NESHAP or N the otherwise that apply. If	SPS that limits emissions or estab applicable Federal rule contains n in doubt, check your operating pe	blishes requirements to specific requireme rmit for Federal air I
Survey reference:		Size of entity			Federal rule	coverage			
Field:	Primary NAICS	Worldwide employees	Facility employees	Small business	P&P NESHAP subpart S	Combustion Source NESHAP subpart MM	Paper/web coating NESHAP subpart JJJJ	Boiler NESHAP subpart DDDDD (or CISWI emission guidelines/NSPS) that are under development	Other NESHAP (list subparts)
Example entry:	322121-Paper (except Newsprint) Mills	>1000	500-749	no	Applies	Applies	Applies	Applies	טטטט

OMB Control No:	_										
Expiration Date: Review Draft	_										
"Nominal daily throughput capacity											
Pulp and Paper sector facility d	a			1					1	1	
	i from any sing	gle piece of e uipment typ	equipment at the mill. es at your mill). For the								
	rule subparts t	hat apply.									
										Enter the 2009 nominal	
								Select from menu. You may write in more than		capacity total for all	
Instruction:				Select yes/no	Select the most relevant response	Select yes/no	Select yes/no	once choice.	Enter number	market pulp products.	Select from menu
Survey reference:				Pulps					Pulp dryers	Market pulp	Bleaching (or brightening) systems
										2009 nominal daily	
				Desce the will					Total number of pulp drvers used to	market pulp	
	Kraft NSPS	Boiler	Other NSPS (list	produce virgin	Does the mill produce pulp from	Does the mill	Does the mill purchase		produce market pulp	(short tons/day)	Is bleaching or brightening
Field: Example entry:	subpart BB	NSPS Db	subparts)	pulp?	secondary fiber?	purchase virgin pulp?	secondary fiber pulp?	Types of market pulp produced by the mill NA	NA	NA	performed at the mill? ves-bleaching
1				,							,
2											
4											
5											
7											
8											
10											
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12											
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OMB Control No: Expiration Date: Review Draft	-									
UK = Unknown. NA = Not Applic "Nominal daily throughput capacity Pulp and Paper sector facility d	i " 8									
Instruction:	Enter number of machines	Enter the 2009 total nominal daily production capacity fo all paper/paperboard products.	Enter decimal percent for utilization (e.g., 0.7 for 70% of capacity r utilized). See survey instructions for an example.	Enter the typical decimal percent for utilization (e.g., 0.7 for 70% of capacity utilized) for the past 5 years. One way to determine the 5-year utilization would be to average the utilization percentages for 2005, 2006, 2007 2008, and 2009.	Select from menu the general paper grades manufactured by the paper mill in 2009 (noting the product produced in the greatest quantity as product 1, product produced in the 2nd greatest quantity as product 2, etc.)	Use the paper grades most closely related to the paper grades produced at your mill if you do not find an exact match in the menu.	Specify other paper grade(s) if none of the grades in the menu reasonably match the grades produced at your mill			
Survey reference:	Paper or paperboard proce	sses/products	Paper capacity utilizati	op	Paper grades produced					
Field:	Total number of paper machines	2009 nominal daily production capacity total for paper/paperboard (air dried short tons/day)	/ 2009 paper/paperboard capacity utilization percentage	5-year average (2005-2009) paper/paperboard capacity utilization percentage	Paper grade 1	Paper grade 2	Paper grade 3	Paper grade 4	Paper grade 5	
Example entry:	1	34000	0.8	3 0.9	5 uncoated free sheet	linerboard	other - specialty food-grade	- aper grade +		
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50										
Mill					Untitle	d				5 (

OMB Control No: Expiration Date: Review Draft	-					
UK = Unknown. NA = Not Applic "Nominal daily throughput capacity" Pulp and Paper sector facility da	:: " 8					
Instruction:						Optional. Enter any comments you have on the data supplied.
Survey reference.						
Field: Example entry:	Paper grade 6	Paper grade 7	Paper grade 8	Paper grade 9	Paper grade 10	Comments
1 2 3						
4 5 6 7						
8 9 10						
11 12 13						
15 16 17						
18 19 20						
22 23 24						
25 26 27						
20 29 30 31						
32 33 34						
35 36 37 38						
39 40 41						
42 43 44 45						
46 47 48						
49 50						

OMB Control No: Expiration Date:	XXXX-XXXX XX/XX/XXXXX			Did any of the responses (individual cells) y If yes, be sure to shade the CBI-containing cells	you entered in this tab contain CBI? and and follow the instructions in section C of the	survey overview document for submitting CBI.		-						
You may find it helpful to use Exce UK = Unknown. NA = Not Appli	el's "freeze panes" or "split" fea licable. See instruction docume	atures when viewing this spreadsheet. ent for details on use of these terms.		"Nominal daily throughput capacity" is defined as	the typical operating rate for the emission unit.	or example, pulp mill production can be used to	approximate pulp mill equipment throughput	capacity.			"You do not need to complete these columns for boilers if you included Boiler MACT	irvey codes.		
instruction Survey reference:	Prov indi indi indi indi indi indi indi ind	while for all entries. Use the Emission Unit, ID is the NEI data set for your mill isospikel for Part II P the involated motion and is located them; Emission units are aggregated by collectory system in the NEI. Them and the tack-final motion at agaranzal year have the Emission Unit ID is tab Set the sumery structured in the structure of the structure of the structure of the structure of the set of the se	OPTIONAL for balens), Instanza of intering optimis generalized by in my speechty the D markens include in the balens. Use the Baler MACT Cost Looka, als the Baler MACT Cost Looka, als the Baler MACT Cost Looka, als the Baler MACT Cost, and the Baler MACT Cost, and the Baler MACT facility Barter the Baler MACT facility D	Leave columns that do not apply for a pluen emission unit black. Specify the collection system if applicable. Re (Examples of collection systems include closed with systems, LVHC, and MYLC systems.)	Enser the decimal value for control capture efficiency, if available (e.g., 009 – 00% captur Bank entries for emission units with captur devices will be considered as having 100% capture.	e). Enter the following codes for emission units to a constrain the second s	Use this column for notes or if helpful to relate equipment and process lines to your permit, the lifes, or other information	With in a description uploy the common equipment types listed Attachment I of the survey instructio document.	(See bolier note*) [See Enter "UP" (Incover, or "De"-SHOP" (Incover, or "De"-SHOP" (Incover, or buildown, If the ensistent uninous, If the ensistent uninous, If the ensistent the upgrade as "DOCK." Enter hyperbolie as "DOCK."	boiler note*) r 2009 operating	There the exclusion files rate from the emission unit (IF known) in actual cubic feet per memory lowers. Lower black feet the state of the state o	Enter the emission unit exhaust temperature in degrees Fahrenhe brown)	as Enter the emission unit exhaust gas If If moisture content (N KOD), I known For example, enter 10P for 10%.	Exhaust films rate measurements may have been offer marked extension of a solution of the shauet after marked extension will is contrast with exhauet and the shauet solution of the shauet with CD with contrained exhaust files. The emission will be marked with a contrained wets, enter the marked with a file marked with a charact flow provided is the total from multiple contrained wets, enter the marked with a contrained with a contrained with a contrained with a charact flow provided is the total from multiple contrained wets, enter the marked with a contrained with the column.
Field:	NEI Site ID	Emission Unit ID	Boiler MACT Survey Facility Boiler MACT Survey U ID ID	Collection system ID (for collection systems init that collect gases from multiple process uni prior to air pollution control).	its Control Capture Efficiency (%)	Configuration if not emitted through a conveyance	Process notes (optional)	Emission unit description	Year emission unit Emis installed oper	ision unit rating hr/yr	Emission unit exhaust flow rate, acfm (if known)	Exhaust gas temperature, F (i known)	if Exhaust gas moisture content, % (if known)	6 Emission units IDs (or Collection System IDs) with combined exhaust flow
Example entry:	99999	DIG-1		LVHC-1				digester	pre-1990	8400	2,000	175	45	multiple vents combined
	99999	DIG-2		LVHC-1				digester	pre-1990	8430	1,200	200	50	multiple vents combined
	99999	STRIPPER					NEI Emission Unit ID = 06	steam stripper system	2000	8430	14,000	UK	ик	
	00000	LVHC-1						LVHC collection system	2000-upgrade	8370	14,000	UK	ик	
	999999	Boller FIISS	V&GaintCornorationApytown FUI55				NELEmission Linit ID = EU55	boller	1985	8700	56.000	250	12	
	999999	EVAP		IVHC.1				evaporator	UK	8430) 18	UK	UK	

Elaida	NELSIN ID	Emission Helt ID	Collection system ID (for collection systems Boiler MACT Survey Facility Boiler MACT Survey Unit that collect gases from multiple process units UD units of the state of the s	Configuration if not emitted through a	Year Emission unit description	remission unit Emission unit	Emission unit achquist flow rate, asfm (if known)	Exhaust gas temperature, F (if E:	chaust gas moisture content, % Emission units IDs (or Collection System IDs) with
130 131 132	Inclusive in				cimation unit description mate	operating mys	innanon unit exinadat now nice, acini (n known)	kiowi) (i	
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				11-000-0					

Fie 302 303	1 Id: 2 3	NEI Site ID	Emission Unit ID	Boiler MACT Survey Facility Boiler MACT Survey ID ID	Collection system ID (for collection systems / Unit that collect gases from multiple process units prior to air pollution control). Control Capture Efficiency (%)	Configuration if not emitted through a conveyance Process notes (optional)	Emission unit description	Year emission unit Emission unit installed operating hr/yr	Emission unit exhaust flow rate, acfm (if known)	Exhaust gas temperature, F (if known)	Exhaust gas moisture content, % (if known)	Emission units IDs (or Collection System IDs) with combined exhaust flow
304 305 306 307	4 5 5 7											
309 310 311 312	5 0 0 1 2											
313 314 315 316	3 4 5											
317 318 319 320												
322 323 324 325	2 3 4 5											
326 327 328 329 330	5 7 3 9											
331 332 333 334	2 3 4											
335 336 337 338	5 5 7 8											
340 341 342 343	2 2 3											
344 345 346 347 348	4 5 5 7 8											
349 350 351 352	9 2 2											
353 354 355 356 357	5 4 5 7											
358 359 360 361	3 0 1											
362 363 364 365 366	2 3 4 5 5											
367 368 369 370	7 3 3											
371 372 373 374 375	2 2 3 4 5											
376 377 378 379	5 7 3 9											
381 382 383 384	2 2 3											
385 386 387 388	5 5 7 3											
390 391 392 393	2											
394 395 396 397 398	4 5 5 7 8											
399 400 401 402	3 1 2											
403 404 405 406 407	5 4 5 5 7											
408 409 410 411	3 9 9											
412 413 414 415 416	2 3 5 5											
417 418 419 420	7 3 9 0											
422 423 424 425	- 2 3 4 5											
426 427 428 429 430	5 7 3 9											
431 432 433 434	2 3											
435 436 437 438 439	5 5 7 3											
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444 445 446 447 448	• 5 5 7 3											
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453 454 455 456 457	4 5 5 7											
458 459 460 461	3 0 1 2											
463 464 465 466	3 4 5 5											
467 468 469 470	7 3 9 0											
472 473	2					11-000-00						

NEI Site ID	Emission Unit ID	Collection system ID (for collection systems Boiler MACT Survey Facility Boiler MACT Survey (JNH that collect gases from multiple process units ID prior to air pollution control). Control Capture Efficiency (%)	Configuration if not emitted through a conveyance Process notes (optional)	Emission unit description	Year emission unit Emission unit installed operating hr/yr	Emission unit exhaust flow rate, acfm (if known)	Exhaust gas temperature, F (if Exhaust gas moisture content, % E known) (if known) c	Emission units IDs (or Collection Syst combined exhaust flow

		Boiler MACT Survey Facility Boiler MACT Sur	Collection system ID (for collection systems vey Unit that collect gases from multiple process units	Configuration if not emitted through a		Year emission unit Emission unit		Exhaust gas temperature, F (If Exhaust gas moisture	content, % Emission units IDs (or Collection S
NEI Site ID	Emission Unit ID	ID ID	prior to air pollution control). Control Capture Efficiency (%)	conveyance Process notes (optional)	Emission unit description	installed operating hr/yr	Emission unit exhaust flow rate, acfm (if known)	known) (if known)	combined exhaust flow

Field: 818 819	NEI Site ID	Emission Unit ID	Boiler MACT Survey Facility Boiler MACT Sur ID ID	Collection system ID (for collection systems rvey Unit that collect gases from multiple process units prior to air pollution control). Control Capture Efficiency (%)	Configuration if not emitted through a conveyance Process notes (optional)	Year emission unit Emission unit description installed	Emission unit operating hr/yr	Emission unit exhaust flow rate, acfm (if known)	Exhaust gas temperature, F (if known)	Exhaust gas moisture content, % (if known)	Emission units IDs (or Collectio combined exhaust flow
320 321 322 223											
824 825 826 827 828											
829 830 831 832											
133 134 135 136											
7 3 9 9											
11 12 13 14											
45 46 47 48 49											
i3 i4 i5											
7/ 18 19 10											
2 3 4 5											
76 77 78											
381 382 383 384											
885 886 887 888											
89 90 91 92 93											
4 5 6 7											
8 9 0 1											
13 14 15 16											
17 18 19											
- 2 3 4 5											
* 5 5 7 3											
9 0 1 2 2											
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Elakt	NELSING ID	Entroine Helt 10	Boiler MACT Survey Facility I	ioiler MACT Survey	Collection system ID (for collection syste Unit that collect gases from multiple process	ms units Control Capture Efficiency (%)	Configuration if not emitted through a	Brocass pates (antional)	Emission unit description	Year emission unit	Emission unit		Exhaust gas temperature, F (if	Exhaust gas moisture conten	nt, % Emission units IDs (or Collection System IDs) with
There.	HEI SILE ID	Ciliation Onic ID	10	10	prior to an ponation controly.	control capture cinclency (70)	conveyance	Process notes (opcional)	ciliation dire description	matamet	operating m/yr	children und exhibit now face, actin (it known)	Kilowili)	(II KIIOWII)	comprised exhibits now
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991															
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993															
994															
005															
303															

OMB Control No: Expiration Date: Review Draft You may find it helpful to use Excel's UK = Unknown. NA = Not Applics		*You do not need to complete these col	umns for boilers if you inclu	ded Boiler MACT survey co	odes.		**You do not need to complete these columns for boilers if you i	ncluded Boiler MA	CT survey codes (on rows where the Emiss	on Unit ID is a b	oiler). However, boilers that control NCI	i/SOG must be li	isted (on rows for the Emission Unit IDs the	e boiler controls).
Induction Turvey Televence	Specify the location of the Row rate provided. Select from menu tor write in response)	Litz any conduction control measures metal-formplyee to reack as the second second second second second and the second second second second metal-second second second second second metal-second second second second second metal-second second second second second second second second second second second second second second second metal-second second	7 Select yealno Were these combustio controls added within	Enter percent En reduction (# known) basis for the value is provided (o.g. EXISS data, being, so adsign value). de n Combustion Co control NOX Med Co	ntur parcent Bischar for the and the forest the model of a set model of a set model of a set model of a set model of a set the forest the and the forest and	Decrifie any specific process cannot or positive prevention measure used to note measure from the tension (tube 10 control to positive control device). Use this column of tensions information and devices in the survey indexistic control devices in the survey measure in the survey measurement of the surv	Nimary method of control. Use these "MCD" columns to be entered in the last safety of columns to the cycle. The control is negative of columns to the cycle. The control is negative to the cycle of	Enter ID code fr first APCD (to used throughou the survey spreadsheets)	Enter 2nd control device if multiple controls used. If process equipment such as a bolier o include any control device used on the process equipment.	Enter ID code for 2nd APCD (to be used throughout th survey spreadsheets	Enter 3rd control device if multiple controls used. Typroces equipment such as a bala- er line king is used to control devices suad on process experiment.	r Enter ID code 3rd APCD (to b used through the survey spreadsheets)	Enter 4th control device if multiple for control used. The second	Enter ID code for ar 4th APCD (to be used throughout the survey spreadtheets)
Example entry:	inlet to collection system													
compre entry.	inlet to collection system													
	stripper outlet (inlet to boiler)						Boiler EU55	Boiler EU55	WESP	WESP 1				
	collection system outlet (inlet to lime kiln)						Line kin 1	LK1	Scrubber	SCBR2				
	control device (strabbil) outlet	overfire air	No	20%, design			WESP	WESP 1						
	NA													

Expiration Date:			
Review Draft You may find it helpful to use Excel's UK = Unknown. NA = Not Applical	I		
	Complete for emission units (as shown in the Emission Unit ID		
Instruction:	controls used only during certain times. (Primary controls for the collection system were identified in the APCD columns to the left).	Specify conditions	Specify
Survey reference:	Backup controls**		
Field:	Alternate method of control (specify APCD_ID or Emission Unit ID)	Conditions when alternate control is used	Approximate hr/yr when alternate control is used to control emissions from the Emission Unit ID
Example entry:			
		When Dellas FIJEE is not exception	
		when boller 2055 is not operating	
	то	When LK1 is not operating	

OMB Control No: Expiration Date: Review Draft You may find it helpful to use Excel's	-				
UK = UNKNOWN. NA = NOT Applica	select yes/no. If Grudder how the emission unit is permitted when				
Instruction:	specifying if it is subject to NSPS BB. For example, a boiler or thermal oxidizer controlling BB emission units is not necessarily an <u>emission unit</u> subject to BB. If your permit indicates the unit is subject to BB then indicate "yes" in the column below.1	Provide year. If not known, enter approximate year (e.g., "pre-1990")	Select from menu.	Indicate NSPS BB TRS compliance option used to demonstrate NSPS compliance with primary method of control. [Mote: You may enter the compliance option for each emission unit or for the relevant collection system if listed separately. Leave blank if not acoilcable.]	Indicate NSPS subpart BB TPS compliance option used to demonstrate compliance using backup method of control for the emission unit (if a backup method of control is used). [Note: Leave blank if no backup control is specified in the columns to the left for this emission unit.]
Survey reference:	Subpart BB NSPS applicability	(
Field:	Is emission unit subject to NSPS BB?	If yes, year became subject to BB (XXXX)	Reason subject to BB	Specify TRS compliance option used to demonstrate NSPS subpart BB compliance (if applicable)	Specify TRS compliance option used for backup method of control (if applicable)
Example entry:	ves	pre-1990	new		
Example entry:	yes yes	pre-1990 pre-1990	new		
Example entry:	yes yes	pre-1990 pre-1990	new		
Example entry:	yes yes po yes	pre-1990 pre-1990	new new collects emissions from BB emission units	combust gases in lines kits or recovery furnace subject to subpart BB	5 ppmdv @ 10% 02 (combustion control)
Example entry:	<u>yes</u> no yes To	pre-1990 pre-1990 pre-1990	new new collects emissions from BB emission units	combust gases in lime kin or recovery furnace subject to subgart BB	5 gondu g 19%. 02 (contustion contral)
Example entry:	<u>yes</u> no yes no no	pre-1990 pre-1990 pre-1990	new new collects emissions from BB emission units	combust gases in line kin or recovery fumace subject to subgart BB	5 gondv g 19%. O2 (contaction control)
Example entry:	<u>yes</u> 0 10 10 10 10 10 10 10 10 10 10 10 10 1	pre-1990 pre-1990 pre-1990 pre-1990	new new collects emissions from BB emission units	contrast pases in time kin or recovery formace subject to subject 88	5 ggmdu g 10%, 02 (combustion control)

OMB Control No: Expiration Date:	-								
You may find it helpful to use Excel's UK = Unknown. NA = Not Applica	5 a								
	Select years. Select years. Cardiact are surger should relear "tos." Cardiact to subserve 1. For example, a bottler or 10 controlling cardiact 3 semicon curris to or the example are areas used a labor subject 3 semicon curris to or the example areas areas used as the control of the example of the example areas and the example of the example of the semicontrol of the example of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the semicontrol of the example of the example of the example of the example of the semicontrol of the example of t	16 ct. Indicate compliance sption met using primary method of control for the emission unit.	Indicate compliance option met using backup method of control for the emission unit (if a backup method of control is us	sol. See guil dean menu for optential reasons some wert as streams may not be covered under subart 15. Some nue exceptions are listed in the	Complete for each digester source. This could include multiple emission units that are part of one emission inclusted of "Multiple emission units ducted to a single release point").	Select from menu. In the menu, "HW/SW saling refers to digetation to the process barries of the select the selection of the s	Complete for each puby watching system (e.g., wasting init). Enter number of	Enter the types of washers used in scritics: down D=dfluston To-processure waster for the flust scape of the -processure	If you have vacuum drum wachers, enter the final waching ratige is shower water methanol concentration in milligrame gare
Instruction:	S then indicate "yes" in the column below.]	If the clean condensate alternative (CCA) is used, be sure to complete the CCA tab.	If the CCA is used, be sure to complete the CCA tab.	menu, along with a slection for synthetic area sources. You may write in other reasons.	Select from menu v	value You may also select "Non-wood."	Enter numeric value washers in series	O=other vacuum drum washer used)	from 2009 or target value.
Field:	Is emission unit subject to NESHAP subpart S?	Subpart 5 compliance option used (for primary method of control)	Subpart 5 compliance option used (for backup method of control, if applicable)	Provide reason if not controlled to meet subpart 5	Batch or continuous	Digester nominal daily production zapacity, Wood type (HW, SW, HW/SW swing)	Washing system nominal daily production Total number of capacity, ADTP/d washers	Source of vacuum drum Washer types washer final stage shower and sequence water	Vacuum drum washer final stage shower water methanol concentration, mg/l
Example entry:	yes				Continuous	480 SW			
	yes				Continuous	520 HW/SW swing			
	yes	Use a boiler, LK, or RF in which the HAP gas stream in introduced with the primary fuel into the flame zone	Reduce total HAP concentration at the outlet of thermal oxidizer to <20 ppmv @ 10% 02 (dry basis)						
	yes Ro	Use a boiler, LK, or RF in which the HAP gas stream in introduced with the primary fuel into the flame zone	Reduce total HAP concentration at the outlet of thermal oxidizer to «20 ppm» (© 10% 02 (dry basis)						
	. <u>no</u>								
	yes								
	no						1000 3	D-V-V evaporator condensates	



OMB Control No: Expiration Date:								
Review Draft You may find it helpful to use Excel's								
UK = Unknown. NA = Not Applica								
	Complete for each, knotter, screen,		Complete for each			Complete for oxygen delignification systems.		Enter the numeric value for
	and decker.	Enter type of shower water used in	evaporator system	Enter Emission Unit ID(s) for pulp washers supplying weak	Enter numeric		Enter Emission Unit ID(s) for pulp washers	methanol concentration, if known. Use the average from
Instruction: Survey reference:	Enter numeric value Knotters, screens, and deckers	decker (if applicable)	Enter numeric value Evaporators	liquor	value	Enter numeric value Oxygen delignification	supplying the brownstock	2009 or target value.
			Evaporator nominal		How many			Methanol concentration in
	Knotter, screen, or decker nominal daily production	Type of shower water used in	daily production capacity, gal/day of	Which pulp washer(s) are the source(s) of weak liquor	evaporator effects are	Nominal daily production capacity,	From which washer lines is the brownstock	post-O2 delignification washer shower water,
Field:	capacity, ADTP/d	decker	weak black liquor	for the evaporator set?	there?	ADTP/d (inlet stock)	coming from?	mg/I
Example entry:								
			100) WASHER	6	i		
			100) WASHER	6	i		

1100 WASHER

OMB Control No: Expiration Date:										
Review Draft You may find it helpful to use Excel's										
UK = Unknown. NA = Not Applica										
	Complete for steam strippers and air strippers used to remove compounds from condensates, wastewater, or other process liquids.		Enter Association of The condensate interest (e.e., regionator condensates, digatar condensates, suprestme recovery system conductate, UKP cystem condensates,	Enter numeric value for	Enter numeric value	Enter numeric value	Enter numeric		Enter the methanol removal efficiency (i it has been measured (e.g., enter 200 or 23%). Use the average from 2000 or target value. If measured efficiency is not available, enter the design efficiency (s.g., enter 55.0° to reficience a design methanol	Enter the total TRS removal efficiency if it has been measured (e.g., enter 27 of 02%). Use the average from 2009 or target value. It measured efficiency is not available, enter the design efficiency (e.g., enter 9%-D to reflect a design
Instruction:	Select air/steam	Select yes/no	HVLL system condensates), wastewater streams, or other process liquid streams that are stripped	stripper (design value)	of the design parameter	or the design parameter	design parameter	Select from menu or write in	removal efficiency of 95%) or "UK" for unknown.	"UK" for unknown
Survey reference:	Strippers									
Field:	Type of stripper	Is the stripper integrated with the multiple effect evaporator system?	List all liquid streams sent to the stripper	Design liquid flow to the stripper, gpm	Design steam application rate, Ib/gal	Design liquid column feed temperature, F	For air stripper, design air flow rate, cfm/gpm	Primary reason for installation of the stripper	Methanol removal efficiency, %	TRS removal efficiency, %
Example entry:										
	-									
	steam	no	DIG-1 and DIG-2 condensates, EVAP condensates (effects 1- 3), LVHC-1 condensates, Turpentine decanter underflow	31	.5 1.1	i 130		water conservation; and subpart S kraft pulping condensate standards	97	94

Expiration Date:	_							
You may find it helpful to use Excel	5							
UK = Unknown. NA = Not Applie	a 1				1			
	Complete the pulp and liquor storage questions for pulp storage tanks (e.g., high density storage), stock chests, strong and weak liquor storage tanks.							
	Do not include tanks that are defined as part of the bleaching.							
	decker, evaporator, pulp washing, O2 delignification, steam stripper,		Select from menu. If tank emissions are routed to a collection parton and control device or to a process, then the		Complete for liquor			
	Subpart 5. Do not include acid condensate storage tanks.		collection system, APCD, or process Emission Unit ID should		Falast from money as			Enter numeric value.
Instruction:	Select from menu or specify	Enter numeric value	worksheet.	Select from menu	write in	Enter numeric value	Enter numeric value	2009 or target value.
Survey reference:	Pulp storage and Liquor storage				Liquor storage ponds			
Field:	Typical tank contents	Tank capacity, gal	Tank control technique	If floating roof is used, type of seal	Pond contents	Pond surface area, ft2	Pond capacity, gal	Annual pond throughput, gal/yr
Example entry:								
	-							
			5 5 a barror		weak black linure		0 15940	2 2 300 000

OMB Control No: Expiration Date:	_										
You may find it helpful to use Excel UK = Unknown. NA = Not Applie	5 3						*You do not need to complete these colum	ns for bollers if you included Boller MACT s	survey codes.		
Instruction	Complete this question for time mud washers and lime mud pre-cost filters. Select the source(s) of makage water added to the mud washer or process filter the source of the lime. This may write in more than one cance. Unreaded process the source of the lime that the source of the source of the source of the source as setem transport or body of the source of the source of the source of the canadical generation of the cites of the Access in the survey overview document in the bab	 Select yearling. Answer this question with respect to each caustricing Emission Unit ID specified in column C. 	Enter description if answer to previous question was yes. Emission reactions achieved may apply to the mission built (paged) of to show the process of the de sea charact process of the process of the de sea characteristic process of the descent of the descent process of the descent process of the descent of the descent process of the descent process of the descent of the descent process of the descent process of the descent of the descent process of the descent process of the descent of the descent process of the descent process of the descent process of the descent of the descent process of the descent proces of the descent	Complete for fusi-fired equipment such as such as bollers, thermal evaderes controlling dynamics and discuss and direct fired dynamics. The substantiation for recovery binarces listes the Information for recovery binarces to be the Information for recovery binarces and the Information for recovery binarces and the Information for recovery binarces and the Information for the substantiation to be recovery binarces and the Information of the substantiation information and the substant	Complete for Emission Units such as boilers or thermal and/ours that are used to increase MKG or 300. Note that information for recovery furnaces (also issues as to be supplied under 1971 II of the pild and agene survey rank that II. Let al issuerce of KKG or 500, (sentified by their Collection Synch Tot CIG or	List all sources of NCG or SOG, identified by their Collection System Dis or Emission (HD D), separated unit serves as backup control (e.g., LVHC2, HVCL).	Complete for fuel-fired equipment such as bollers, thermal ackdars controlling Part in the second	Enter distrinal percent R. g., J. – 100%. 0.9 – 90%. Approximations based on the average from 2009 or s target value will curtic.	Optional. Since the numeric higher corresponding to the suppress of the suppress execution of the suppress of the suppress exec column. • #9A can assume default HMM for for basis, or you may be an entro the left realistively uncommon	Specify units corresponding to the H+V. Used where the MMML monitory basis for solid fuels, and <u>RuntMact</u> for gaseous fuels.	 Optional. If biomass is the primary fuel type, specify average mission content as idealinal percent by weight, i.e., enter "0.2 "Fo 20%)
Survey reference:	p-analycene wappings Causticing area nonikal daily production causify Source(c) of makeup water added to mud washer or precest filter	Has the mill taken steps within the last 10 years to control makeup water quality for the causticiting emission un such that air emissions from any equipment would be reduced?	t If yes, please describe these changes and the reduction in emissions achieved	Design heat input capacity, MMBtu/hr	Explorement incrementing records social NCC/SOG for which the emission unit provides primary control	NCG/SOG for which the emission unit provides backup control	Primary fuel type	Approximate percent of annual heat input capacity (MMBtu/yr) supplied i primary fuel	by Optional: Average HHV of non-fos primary fuels	sil Optional: Primary fuel HH1 units	Optional: Moisture content V for biomass fuel (decimal % by weight)
Example entry:											
)	STRIPPER, LVHC-1					
				43	STRIPPER		hog fuel	0.	95 1	2.6 MMBtu/ton	0.23
	3942000 treated wastewater, and partially treated wastewater - CLARFIER1 water	yes	Replaced half of the lime mud wash water volume (from CLARFIER1) with treated wastewater from STRIPPER in order to reduce methanol emissions from the lime mud washer and LK1.								

Expiration Date:											
You may find it helpful to use Excel's		aluded Delles MACT success and a			Ulddan anti-man	Additional supplemental first and union (for burns 7, 6) are bid	data. Ulabilda and annualaba binana antonana Mantanana				
uk – Unknown NA – Not Apples Instruction: Survey reference:	The do not near to compare these counts the down if you in Compare for fuel-fined equipment such as beliers, thermal diverse. Einer the types of togotenential or other fuels the diverse to the the types of togotenential or other fuels the location good or other NCGs. Note that information for recovery fuences fails known as through some or the NCGs. Note that information for recovery fuences fails known as through some or the NCGs. Include somethy and additional holes cost matching for multi- ling for decouptions these columns. Supprennents for other fuels for fluer free opupprent*	Enter decimal percent (e.g., 1 – 100% or 0.3 – 90%), on the average from 2009 or a larget value will suffice.	Enter the numeric higher heating value (HHV) for non-fossi faels corresponding to the suggested units in east column. Optional. EM can assume instault HHVs for fossi faels, or the fael's relatively uncommon	I Specify units corresponding to the HYU. Use HYU is indic fusic, functional for indications for solid fueld, and RuilMMerf for gaseous fuels.	Holden Countrie: Select from menu or write in. You may write in more than one condition. Muß-fuel fired units can select "routine units.	Additional appaintents fuel country (for type) - 6) are not supply starting/shuddewn information for equipment (include column (except thermal outdoers). Enter starting/shuddewn Enter appointents (include starting and studies) which information for starting/shuddewn events associated with co "starting" means the study in a starting in generation of an affected sour enterport testing and starting in generation of an affected sour enterport testing and starting in generation of an affected sour	Set: Unice and compare treas counter in reveals.	Select from menu or write in	Write an response specifying when startup ands and normal operation begins (i.g., Startup and, when the constraints of the startup and the support begins to free.)	Enter approximately how long it takes for the emission unit to shuddown. Use decimate if features han one how (e.g. 18 minutes – G. 3 Mr). "Shuddown" means the cleated of doparation of additional shuddown in the cleated of counce for any purpose.	Select from menu or write in
Field:	Supplemental fuel type 1	Approximate percent of annua heat input capacity (MMBtu/yr supplied by supplemental fuel	i) Optional: Supplemental fuel type 1 HHV (if non- 1 fossil)	Optional: Supplemental fuel type 1 HHV units	Conditions when supplemental fuel type 1 used	Approximate duration of emission unit startup (hour	s)	Measures employed to reduce air emissions during emission unit startup (If an	What marks the end of emission unit startup an) beginning of normal operating conditions?	d Approximate duration of emission unit shutdown (hours)	Measures employed to reduce air emissions during shutdown (if any)
Example entry:							0.5	backup/alternate control	When full pulp flow from the digester is obtained	1	continue routing emissions to LVHC-1 collection system and primary or backup control system
							0.5	backup/alternate control	When full pulp flow from the digester is obtained	1	continue routing emissions to LVHC-1 collection system and primary or backup control system
							2	backup/alternate control	stripper steam application rate reaches target; and begin flow of process condensates from tank	1	stop routing process condensates to stripper before beginning shutdown
							0.1	backup/alternate control	flow through bypass ceases	0.2	NA - applicable emission and parameter limits not expected to be exceeded during shutdown
	natural gas	0.	05		startup, backup		12	Operate WESP during boller startup	Steam pressure of 100 psig or greater achieved	12	emission unit and control device operates during emission unit startup (but not necessarily in compliance with all NSPS/NESHAP parameter limits)
							18	backup/alternate control	strong inquor now or euu gpm at evaporator exit (55% solids)	16	continue routing emissions to LVHC-1 collection system and primary or backup control system
							12	emission unit and control device operates in compliance with NSPS and NESHAP parameter limits during emission unit startup	Combustion temperature is reached	14	Temperature drops below 200F

OMB Control No: Expiration Date: Review Draft You may find it helpful to use Exce			
UK = Unknown. NA = Not Appli	<u>a</u>		
Instruction:	Write in response specifying when shutdown begins and normal operation ends (e.g., Shutdown begins when material throughput ceases to flow.)	OPTIONAL QUESTION. Input on appropriate standards that would be reasonable for your pulp and paper source category emission units is requested. Supply recommendations for the specific equipment (including collection systems or APCO) as appearing in the Emission (DMI D column.	Optional. Enter any comments you have on the data supplied.
Survey reference:			
Field:	What marks the end of normal operating conditions and beginning of emission unit shutdown?	Optional: Do you wish to recommend a standard that would apply during startup or shutchown by this amission and? If so, part this secret has event to which the share part of the standard start and the shutchown of the start of the start of the recommended standard; why and how the standard would minimize emissions during heaving and the start of the start of the start of the start of the recommended standard; why and how the standard would minimize emissions during heaving and the start of the start of the start of the start of the sparate attachment to your survey response if measures.	Comments
Example entry:	Stop transfer of wood chips form the feed silo	Rule could require continued routing of emissions to LVHC-1 collection system and primary and/or backup control system during digester startup and shutdown.	
	Stop transfer of wood chips form the feed silo	Rule could require continued routing of emissions to LVHC-1 collection system and primary and/or backup control system during digester startup and shutdown.	
	shut off steam supply to the stripper	Rule could require continued routing of SOG to existing primary and/or backup control system during stripper startup and shutdown.	
	flow through bypass begins		
	Stop charging hog fuel into boiler	Bule could require continued routing of emissions to LVHC-1 collection system and primary and/or	
	Steam flow to first effect reduced by 50%	backup control system during evaporator startup and shutdown.	

OMB Control No:	XXXX-XXXX	
Expiration Date:	xx/xx/xxxx	
Review Draft		

UK = Unknown. NA = Not Applicable. See instruction document for details on use of these terms.

Pulp and Paper sector permit data You do <u>not</u> need to complete this tab for boilers.

	P					
Instruction:	Provide for all entries. This should match NEI Site ID used in Part II.	Provide for all entries. Use the Emission Unit ID in the PI Equip detail tab if the individual emission unit was listed there. If emission units are aggregated by a collection system then you may need to use the Collection system ID from the PI Equip detail tab.	OPTIONAL column useful for cross- checking permit data and when comparing permit to NEI.	Select from menu or write in	OPTIONAL. Complete this column to avoid restating Federal permit limits in the columns to the right.	Enter numeric value of permit limit coinciding with the pollutant selected. You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure. See the survey instruction document for permit limit units of interest.
Field:	NEI Site ID	Emission Unit ID or Collection System ID	ldentifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
Example entry:	99999	EU30	EU30 1	PM - filterable		0.02
	99999	EU30	- EU30_1	Opacity		5

Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	ldentifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	ldentifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	ldentifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	ldentifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	ldentifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	ldentifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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Field:	NEI Site ID	Emission Unit ID or Collection System ID	Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional	Pollutant	If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right	Numeric permit limit 1
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OMB Control No:

Expiration Date:

Review Draft

UK = Unknown. NA = |

Pulp and Paper sector

Instruction:	Enter units for permit limit	Supply averaging time for permit limit if an averaging time is specified in the permit. Averaging times are commonly specified for pollutants measured with continuous monitors (e.g., 3- hour block average, daily average, etc). Leave blank if no averaging time is specified in your permit.	Enter numeric value of permit limit coinciding with the pollutant selected. You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure. See the survey instruction document for permit limit units of interest.	Enter units for permit limit	Supply averaging time for permit limit if an averaging time is specified in the permit. Averaging times are commonly specified for pollutants measured with continuous monitors (e.g., 3- hour block average, daily average, etc). Leave blank if no averaging time is specified in your permit.	Enter numeric value of permit limit coinciding with the pollutant selected. You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure. See the survey instruction document for permit limit units of interest.	Enter units for permit limit
Survey reference:	· · · ·	•		· · ·	•		· · · ·
Field:	Units for permit limit 1 (including any applicable %O2 or %CO2 correction factors)	Averaging time for permit limit 1 (if applicable)	Numeric permit limit 2	Units for permit limit 2 (including any applicable %O2 or %CO2 correction factors)	Averaging time for permit limit 2 (if applicable)	Numeric permit limit 3	Units for permit limit 3 (including any applicable %O2 or %CO2 correction factors)
Example entry:	gr/dscf @ 8% O2 % opacity	6-min avg	20) % opacity	Do not exceed 20% for more than three 6-min averages in a 3-hour period determined by Method 9		
1							

OMB Control No:

Expiration Date:

Review Draft

UK = Unknown. NA = |

Pulp and Paper sector

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Instruction: Survey reference:	Supply averaging time for permit limit if an averaging time is specified in the permit. Averaging times are commonly specified for pollutants measured with continuous monitors (e.g., 3-hour block average, daily average, etc). Leave blank if no averaging time is specified in your permit.	Enter numeric value of permit limit coinciding with the pollutant selected. You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure. See the survey instruction document for permit limit units of interest.	Enter units for permit limit	Supply averaging time for permit limit if an averaging time is specified in the permit. Averaging times are commonly specified for pollutants measured with continuous monitors (e.g., 3- hour block average, daily average, etc). Leave blank if no averaging time is specified in your permit.	Enter numeric value of permit limit coinciding with the pollutant selected. You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure. See the survey instruction document for permit limit units of interest.	Enter units for permit limit	Supply averaging time for permit limit if an averaging time is specified in the permit. Averaging times are commonly specified for pollutants measured with continuous monitors (e.g., 3-hour block average, daily average, etc). Leave blank if no averaging time is specified in your permit.
Field:	Averaging time for permit limit 3 (if applicable)	Numeric permit limit 4	Units for permit limit 4 (including any applicable %O2 or %CO2 correction factors)	Averaging time for permit limit 4 (if applicable)	Numeric permit limit 5	Units for permit limit 5 (including any applicable %02 or %CO2 correction factors)	2 Averaging time for permit limit 5 (if applicable)
Example entry:							
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28							

OMB Control No:	
Expiration Date:	
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UK = Unknown. NA =	I
Pulp and Paper sector	·
Instruction:	Optional. Enter any comments you have on the data supplied.
Survey reference:	
Field:	Comments
Example entry:	
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OI Ex Re	IB Control No: piration Date: view Draft mplete this table for add-on air p	xxxx-xxxx xx/xx/xxxx ollution controls. Quest	ions regarding combu	Did any of the responses (ii If yes, be sure to shade the of stion controls and process change	ndividual cells) you entered in this tab contain Bi-containing cells red and follow the instructions i s are included elsewhere in other survey tabs.	CBI? n section C of the su	rvey overview document for sub	mitting CBI.												
Yo	do not need to complete this ta	b for boiler air pollution	control devices.	use of these terms.																
In	truction:	Provide for all entries. should match NEI Site used in Part II. APCD Identification	This Enter APCD_ID ID matching the P Equip detail tai	Enter Emission Unit ID or Collection system ID matching the Equip detail tab. 9 Note If control device serves as b a backup control.	s Select from menu or write in	Enter the manufacturer of the APCD, if known. Enter "UK" for unknown. Enter "shop-built" for equipment designed by the mill.	Enter the year installed, if known. Enter "UK" if unknown; or "pre-1990" if the install date is unknown. If the APCD was substantially upgraded, artic the year of the upgraded, artic the year of the upgraded.	Enter the typical pressure drop across the control device in inches of water P-drop	Enter control efficiencies, if known (e.g., enter 99 for 99%). "Actual" control efficiency is a measured value obtained through interVoutiet emissions testing. Leave blank if not known or not applicable. Control efficiency				Include control efficiency fo specific HAP that you identi This may be HAPs used as metgates in a rule (c.g., metgates in a rule (c.g., HAP.	You may attach a y. separate listing of HAPs and control efficiencies if tavialable for a number of compounds.	Complete for thermal oxidizers or incinerators used to control Part I emission sources. Select from list Thermal oxidizers/incinerators	Enter number of canisters (media bed for a regenerative thermal oxidizer (RTC	s) Enter target firebox combustion/operating)) temperature (F)	Enter time stack gases are exposed to the target temperature (actual or design value) Se	lect yes/no Selec	t from list or write in
Fi	łd:	NEI Site ID	APCD_ID	Emission Unit ID(s) or Collection system ID(s) controlled	Type of control device	APCD manufacturer (if known)	Year installed (XXXX)	Pressure drop, in. H2O	Actual PM control efficiency (if known), %	Actual TRS control efficiency (if known), %	Actual HCl control efficiency (if known), %	Actual SO2 control efficiency (if known), %	Actual HAP control efficiency (if known), %	Specify HAP	Incinerator type	If RTO, number of canisters	Target firebox temperature (F)	Residence time at operating temperature (sec) He	What recovery incin	t is the recovered heat from the terator exhaust used for?
Ex	ample entry:		99999 ANYCONTROL	ANYUNIT	ANYTYPE	ик	pre-1990	4	98				90	Methanol						
			00000 50882		Smither	Ducon	1985	6	95	97		82	50	Formaldebyde Methanol						
-			55555 JUNB2	LKI, LVIICI	Scrubber	Ducon	1900	0	30	92		82	50	romaldenyde, Methanol						
			99999 TO	(backup)	Thermal oxidizer/incinerator	Coen	1999	2		98					Single-stage combustion chamber	NA	1300	1.8	no	NA

OMB Control No: Expiration Date: Review Draft Complete this table for add-on air p UK = Unknown. NA = Not Applic You do got need to complete this ta	- - -																				
Instruction:	Complete the sorbent injection questions for sorbents injection in the gas stream prior to collection by a faint information is being provided. For questions for a diving the advector of the questions for a diving the advector faint system in the same row where you greater information for the faint. filter.	select from list or write in	Enter pounds per hour (lb/hr) of sorbent injected into the exhaust gas stream. Use the average from 2009 or a target value.	Complete for fabric filters (baghouses) used on complete for fabric filters (baghouses) used on (e.g., combustion units). You do not need to provide these details for baghouses used solely operations. Ion from woodmaterial handling operations, the second sole of the second method to the filter material (e.g., polyotater why PTFE coaling). I no coating is indicated (e.g., polyester), the it will be assumed that the filter material is uncoated.	Select from list	Enter typical bag life (o expected bag life), months	Enter number of fabric filter compartments. Enter "1" if the r baghouse is not separated by different compartments.	Enter the design air to-cloth ratio (gas flow divided by the filter bag material area)	Complete th ESP question for dry ESPs and WESPs Enter numbe fields ESPs	e ss Enter number of fi used during norms operation. This m be the same as th total number of fie unless some fields of of film (e.g., for cleaning).	elds al ay e Enter the design dids specific collection are area (area of the plates divided by flow rate).	Describe any ESP upgrade made within the last 10 years, such as addition of fields or other upgrades t as increase ESP efficiency. If no upgrades, leave blank.	Complete these additional s ESP questions for WESPs. If a quench is used prior to the ESP, complete the scrubber questions for the quench.	Include water flow through th WESP. Use the average from 2009 or a target value.	Complete for all types of wet scrubbers (venturi, tray, plate, injection, quench, etc) Enter type of alkali addee (e.g., NaOH/caustic, KOH KMNO4). Leave blank if no alkali added.	Enter the numeric value for the scrubber design liquid-to-gas ratio (1/G) i galons of liquid per 100 a cfm of gas. Use the average from 2009 or a target value.	n Enter numeric valu 0 for the target pH. Use the average from 2009 or a target value.	Enter typical gallons per minute of scrubbing fluid (e.g., water) e makeup added to the system. Use the average from 2009 or a target value.	Select yes/no for scrubbers that cont chemical recovery furnacis or Semichemical fiquor combustion unit Leave blank for other scrubbers.	Complete the scrubber questions and complete the ol additional questions bek s. related to the packing material Darkod bed sc	j ow
Field:	Sorbent type	List pollutants the sorbent injection was installed to control	Sorbent injection rate, lb/hr	Filter material and added coatings	Bag cleaning method	Typical bag life (months)	Number of compartments	Air-to-cloth ratio (acfm/ft2)	Total numb	Number of fields er used during nor operation	s Specific collectio mal area, ft²/1,000 acfm	Have fields/chambers n been added to expand the ESP within the last 10 years?	Is WESP preceded by a quench chamber	WESP water flow, gpm	Type of alkali added, i	f Liquid-to-gas ratio (gal/1000 acfm)	Inlet pH of scrubbing liquid	Scrubbing fluid make-up rate, gpm	For recovery furnaces/combustio units: Does scrubber also serve i a direct contact evaporator?	n Type of as packing material	Packing material depth, ft
Example entry:	activated carbon	Hg	100	Polyester	Shake	15	1	7	8	4	466	No	No	275			8	130	No	plastic packir	ng 3
															Caustic	6	10	60			

 $\begin{array}{c} 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 9\\ 51\\ 52\\ 53\\ 55\\ 57\\ 58\\ 9\\ 61\\ 62\\ 63\\ 66\\ 66\\ 66\\ 68\\ 9\\ 70\\ \end{array}$

OMB Control No: Expiration Date: Review Draft Complete this table for add-on a UK = Unknown. NA = Not Ap You do <u>not</u> need to complete th	sir po plice is tat														
Instruction: Survey reference:		Enter water source and usage information for wet control devices suct as wet scrubbers, WESP, mist eliminatori, absorbers, etc. Do not include spent pulping liquor used in recovery furnace wet bottom ESPs here is information for wet bottom ESPs is requested in the <i>R</i> fault data.	h Select yes/no	Enter numeric value in gallor per minute (gpm). Use th average from 2009 or a targ value.	Enter the decimal percentage or recirculation gpm flow (e.g., 0.1 for 10%) that is not recalculate back to the control device (i.e., the blowdown percentage). Use the average from 2009 or a targ value.	s et Enter end use or disposal method for the blondown	Complete the solid material guestices for control devices that collect or generate solid material to be handled or disposed. Do not include baptoruses or cyclones used soley for woodmaterial handling operations. Provide information for any solid material collected by the ACC (e.g., PK, softent, etc.) and material handling and disposal	Explain how the solid material is used or disposed. Explain where the material resets the proces if it is reused.	Enter the amount of solid material disposed annually (if known) in cubic yards pr year (cu yd/yr). Use the sa average from 2009 or a target value.	Identify any other solid waste er associated with the AFCD that must be replaced/disposed periodically (e.g., packing material, ceramic saddies)	Enter the frequency in which the material must be replaced/dispored, etc.	Explain how the solid material is used or disposed. Explain where the material results the proces if it is reused.	Enter the amount of material that must be disposed in cubic yards (if known). Use S the average from 2009 or a target value.	Select from list or write in. List multiple parameters for the same control device separated by commas (as shown in the example below). Parameter monitoring	List any operating parameters not included in the previous column
Field:	Scrubber/absorber cross-sectional area ft ²	, Water source	Is water recirculated	Water recirculation rate, gpm	Wastewater (blowdown) %	Wastawater (blowdown) reuse or disposal method	Type of material collected	End use/method of disposal for solid material collected	Solid material disposed (if known), cu yd/yr	Identify any other solid wast associated with the APCD	e Frequency of material replacement/disposal	End use/method of disposal for solid material collected	Amount of material to be disposed (if known), cu yd	List continuous parameter monitoring systems used for this control device (e.g., pressure drop, liquid flow)	Please list below any additional operating parameters that are either monitored or that are important for proper operation of the APCD, and include average values and units.
Example entry:	19.6	treated wastewater	Yes	200	0.1	Treated in onsite wastewater treatment plant	carbon sorbent laden with PM	landfill onsite	410	degraded packing material	5 yr	landfill offsite	0.5	liquid flow, voltage	carbon injection rate (100 lb/hr)
		surface water and water from recirculation pond	Yes	350	0.35	Treated in onsite wastewater treatment plant								pressure drop, liquid flow rate	
														combustion chamber temperature	

OMB Control No: Expiration Date:									
Review Draft	_								
Consultable abile backle data and an all									
UK = Unknown, NA = Not App	lica								
You do not need to complete this	tat								
			Supply startup/shutdown information for the equipment that appears in						
			the APCD_ID column.		List any control device parameter limits that cannot be met during control	rol			
			Enter approximately how long it takes for the control device to startup		device startup. Certain parameters may be "instant on" while others are more transient in nature. Examples could include control device	e			
			Use decimals if less than one hour (e.g., 18 minutes = 0.3 hr).		temperature that must heat up to a set point, or pressure drop that				
	OPTIONAL: Supply approximate		Supply information for routine startup and shutdown events such as		cannot be achieved due to low exhaust gas flow from the emission unit.			Enter approximately how long it takes for the contr	ol Select from menu, expand on menu recoonse
	monitoring system equipment		events associated with planned mill downtime. (Do not provide		The EPA is particularly interested in emission limits or parameter limits			device to shutdown. Use decimals if less than one	and/or write in.
	installed within the past 10 years for		information for startup/shutdown events associated with control device or	r Select from menu, expand on menu response, and/or write in.	originating from the pulp and paper NSPS or NESHAP that cannot be met	t		hour (e.g., 18 minutes = 0.3 hr).	For example, is a certain gas flow rate from the
	equipment costs the analyzer and		emission unit malfunctions).	For example, is a certain gas flow rate from the emission unit required before the control device	during control device startup or shutdown.		ends and normal operation begins (e.g. Startup ends	"Shutdown" means the cessation of operation of a	emission unit required for the control device operating parameter limits to be met? Is a certain
	data acquisition system (DAS), if	OPTIONAL: Enter year for parameter	"Startup" means the setting in operation of an affected source or portion	operating parameter limits can be met? Is a certain heating value from the emission unit exhaust gas	Select from menu if the applicable emission and parameter limits are		when oxidizer temperature set point of 1200F is	affected source or portion of an affected source for	heating value from the emission unit exhaust gas
Instruction: Survey reference:	known.	monitoring system costs	of an affected source for any purpose.	required to achieve control device temperature?	expected to be met during startup.	Write in response (if any).	reached.)	any purpose.	required to achieve control device temperature?
Survey reference.			control beliec startap and shatdown						
		Base year for parameter			List any control device continuous emissions monitoring or				Explain how control device shutdown is
Field:	Capital costs of parameter monitoring system, \$	(e.g., 2005)	Approximate duration of control device startup (hours)	Explain how control device startup is integrated with (dependent upon) emission unit startup/operation	operating parameter limits that cannot be met during control device startup	Measures employed to reduce air emissions during control device startup (if any)	What marks the end of control device startup and beginning of normal operating conditions?	Approximate duration of control device shutdown (hours)	integrated with (dependent upon) emission unit shutdown
Ticid.	, , , , , , , , , , , , , , , , ,	(Approximate duration of control device startup (nours)						
							route emission unit exhaust damper to control device		Need airflow from emission unit of at least 10,000
Example entry:			0.4	Need airflow from emission unit of at least 10,000 acfm in order for injected carbon to properly mix an become entrained in gas stream	d carbon injection rate	Ensure water is recirculated through control device throughout startup	and switch on carbon injection once process exhaust gas reaches 10.000 acfm	0.4	acfm in order for injected carbon to properly mix and become entrained in gas stream
			0.4					0.4	Control device cannot function as designed unless
	24500	2007		Control device cannot function as designed unless an air flow rate of 29,000 acfm from the emission		and the state of the second second second second	Startup ends when the pressure drop parameter limit		an air flow rate of 29,000 acfm from the emission
	34500	2007	3	unicis acineveu.	pressure urop	meet inquid now parameter limit	range is achieved	0.5	Control device continues to operate and meets
						bring TO temperature to 1400F before routing NCG			required operating limits while emission unit is shut
	22000	1999	4		temperature set point	or SOG to the TO	Combustion temperature reaches 1400F	4	down or re-routed.

OMB Control No: Expiration Date: Review Draft Complete this table for add-on air pr UK = Unknown. NA = Not Applic You do not need to complete this ta	- - 				
Instruction:	List any control device parameter limits that cannot be met during control device shutdown. Certain parameters may be "instant off" while others are more transler the set point as fundamentary of the set of	t Select from menu or write in	Write in response specifying when shutdown betation and normal operation ends (e.g., and the second secon	OPTIONAL CUESTION. Input on appropriate standards that would be reasonable for your pulp and paper source category control system is requested. Supply recommendations for the specific APCD appearing in the APCD ID column.	Optional. Enter any comments you have on the data supplied.
Survey reference:					
Field:	List any control device continuous emissions monitoring or operating parameter limits that cannot be met during control device startup	Measures employed to reduce air emissions during control device shutdown (if any)	What marks the end of normal operating conditions and beginning of control device shutdown?	Optional: Do you wish to recommend a standard that would apply during startup or shutdown of this control device? If so, please describe the event to which the standard would apply; the recommende 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. Supply as a separate attachment to your survey response if necessary.	Comments
Example entry:	carbon injection rate	Continue injection of carbon until process gas flow drops to 10,000 acfm; continue water recirculation unit emission unit switched off	When process gas flow drops to 10,000 acfm and carbon injection is shut off	Require compliance with liquid flow parameter limit during startup and shutdown (but not carbon injection rate limit)	
		Wait until LK is cooled to 200F before switching off liquid flow.	Shut off liquid flow	Meet liquid flow parameter limits during startup and shutdown (but not the pressure drop drop parameter limit because it can only be achieved during normal operation)	
	temperature set point	Route NCG and/or SOG back to primary control	NCG/SOG re-routed to primary control device	Cease firing NCG or SOG during TO shutdown (route NCG and SOG to primary control device)	

PI Controls

OMB Control No:	XXXX-XXXX	Did any of the responses (individual cells) you entered in this tab contain CBI?
Expiration Date:	xx/xx/xxxx	If yes, be sure to shade the CBI-containing cells red and follow the instructions in section C of the survey overview document for submitting CBI.
Review Draft		

Use this table for pulp produced onsite. Do not include pulp purchases in this table. Mills can have one or more rows in this table depending on the number of pulping processes/lines at the mill. Complete the columns that are applicable for each pulp type, leaving the inapplicable columns blank. **UK = Unknown. NA = Not Applicable**. See instruction document for details on use of these terms. Provide data for the 2009 operating year.

Determine the approx	ovimate
her for the state of the state	requested pleached pulp ents the ed pulp that onsite ng line.
Survey reference: Pulping line identification Virgin wood fiber sources used for chemical or mechanical wood pulps	
Field: NEI Site ID Pulping processes Operating hr/yr 2009 production capacity ADTP/d in processes Unbleached pulp nominal daily utilization percentage in 2009 utilization percentage chips produced Chips produced Chips produced Chips produced Virgin SW decimal Approximate percentage Approximate perce	entage of that is htened)
Example entry: 99999 kraft 8500 950 0.8 0.95 yes yes no 0.2 0.8 NA	

OMB Control No:											
Expiration Date:											
Review Draft											
Use this table for pulp produced onsi	te .										
Mills can have one or more rows in the Complete the columns that are applied	11 72										
UK = Unknown. NA = Not Applica	b										
Provide data for the 2009 operating y	//										
									How does the mill use the pulp it produces		
									from secondary fiber?		
									Determine the approximate decimal		
	This column represents the amount of	This column represents the amount of unbleached pulp				Provide approximate			percentage requested based on annual unbleached pulp capacity (ADTP/vr).	This column represents the amount of	This column represents the amount
	unbleached pulp that is sold (or	that is used onsite to			Specify the	decimal percentages of				unbleached pulp that is sold (or	of unbleached pulp that is used
	transferred to another mill within the same company) as unbleached market	manufacture unbleached paper/paperboard. Decimal			recycled material used for secondary	secondary fiber capacity (ADTP/vr supplied to the			This column represents the amount of unbleached pulp that typically goes to an	transferred to another mill within the same company) as unbleached market	onsite to manufacture unbleached paper/paperboard. Decimal
Instruction:	pulp. Decimal percent.	percent.		Select yes/no	fiber pulping.	left).			onsite bleaching/brightening line.	pulp. Decimal percent.	percent.
Survey reference:				Mechanical wood pulps	Recycled/secondar	ry fiber pulps					
		Approximate percentage									
	•	of virgin wood pulp used		For TMP or pressurized					•	• · · · · · · · · · · · · · · · · · · ·	Approximate percentage of
	wood pulp sold as unbleached	unbleached	Check	a heat recovery system	Mixed paper	High grade deinked		Pulp substitute	secondary fiber pulp that is bleached	secondary fiber pulp sold as	onsite to manufacture
Field:	market pulp	paper/paperboard?	(=1)	used?	decimal%	decimal%	ONP decimal% OCC decimal%	decimal%	(or brightened) onsite	unbleached market pulp	unbleached paper/paperboard?
1	0.25	0.75	1								
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OMB Control No:							
Review Draft							
Use this table for pulp produced onsite Mills can have one or more rows in thi							
Complete the columns that are application UK = Unknown, NA = Not Applicab							
Provide data for the 2009 operating y	E						
			Here de la Meren (III. de la Merena)				
			Now does the mill use the non- wood pulp it produces?				
			Determine the approximate				
			decimal percentage requested based on annual unbleached				
			pulp capacity (ADTP/yr).	This column represents the			
		Non-wood pulping material.	This column represents the amount of unbleached pulp that	amount of unbleached pulp that is sold (or transferred to another	This column represents the amount r of unbleached pulp that is used		
Instruction:		Select from list	typically goes to an onsite bleaching/brightening line.	mill within the same company) as unbleached market pulp.	onsite to manufacture unbleached paper/paperboard.		Optional. Enter any comments you have on the data supplied.
Survey reference:		Non-wood pulps	1				
			Approximate percentage of nonwood pulp that is	Approximate percentage of	Approximate percentage of nonwood pulp used onsite to		
Field:	Check (=1)	Non-wood material	bleached (or brightened) onsite	nonwood pulp sold as unbleached market pulp	manufacture unbleached paper/paperboard?	Check (=1)	Comments
Example entry:	0		1			0	
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12	0					Ö	
13	0					0	
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18 19	0					0	
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22	0					Ö	
23 24	0					0	
25 26	0					0	
27	0					0	
28	0					0	
30 31	0					0	
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42 43	0					0	
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50	0					0	

OMB Control No:	XXXX-XXXX	Did any of the responses (individual cells) you entered in this tab contain CBI?
Expiration Date:	xx/xx/xxxx	If yes, be sure to shade the CBI-containing cells red and follow the instructions in section C of the survey overview document for submitting CBI.
Review Draft		

= Unknown NA = Not Applicable. See instruction document for details on use of these ter UK :

ok – onknown, NA – Not Applicable.	See instruction document for de	cans on use of these terms.				
Each pulp mill producing turpentine and/o	or tall oil should have one row in	this table.				
Instruction:	Provide for all entries. This should match NEI Site ID used in Part II.	Enter numeric value based on nominal production capacity	Enter numeric value based on nominal production capacity	Insert Emission Unit IDs separated by commas	Enter numeric value based on nominal production capacity	
Survey reference:		Turpentine			Tall oil	
Field:	NEI Site ID	Turpentine production, hr/y	r Turpentine production, gal/yr	Digesters supplying turpentine production (insert Emission Unit IDs)	Tall oil production, ton tall oil/yr	Evaporators supplying tall oil production (insert Emission Unit IDs)
Example entry:	99999	8500	700	DIG-1, DIG-2	220000	EVAP-1, EVAP-2
1						

OMB Control No: Expiration Date:

Review Draft

UK = Unknown. NA = Not Applicable. Each pulp mill producing turpentine and/or

nstruction: urvey reference:	Select from menu.	Enter numeric value (if batch)	Enter numeric value (if batch)	Enter numeric value based on nominal production capacity (if continuous)	Enter numeric value (if continuous)	Optional. Enter any comments you have on the data supplied.
ield:	Is tall oil acidulation reactor batch or continuous?	Batch reactor cycle time (hr)	Typical batch reactor cycles per day	Continuous or batch tall oil reactor operation, day/yr	Continuous tall oil reactor nominal production capacity, tons tall oil per hour	Comments
xample entry:	continuous			365	25	

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Expiration Date: Review Draft	xx/xx/xxxx		If yes, be sure to shade th	te CBI-containing cells red and follow the ins	are contain Cost on C of the survey overview document for submitting CBI.											
UK = Unknown. NA = Not	Applicable. See instruction doc	ument for details on use of these terms.	This tab does not apply for	synthetic area sources.												
		The kraft condensate streams covered under subpart S are "named" in §63.446(b).			Mills may either collect/control all "named" kraft pulping condensates, or employ one of the volume reduction options are specified in subpart 5 at §63.446(c)(2) or (3). Mills may also comply with subpart 5 through equivalency-by-permit.			Include the date/result from your				Note: If an onsite				
		Select from menu the source of each "named" kraft condensate stream (digester, turpentine recovery,		Select from menu (Yes, No, Partially).	Select from the following codes to describe why certain "named" condensate streams (or portions of these streams) are uncollected/uncontrolled:			demonstration. You may enter the date/results			Include the date/result from your mos recent compliance demonstration.	t plant is used for biological treatment of		most recent compliance demonstration.	Complete this question if multiple me	hods
		evaporator, HVLC, or LVHC systems). Select "Combined systems" if you wish to describe combined condensate streams from multiple "named" sources (e.g., combined		 If "No" complete question II. If "Yes" complete questions III-VII to spec the applicable method of condensate 	 Mil collects/controls publing process condensate streams containing a combined total of at least 65 percent city of the total HAP mass from each digester system, turpentine recovery system, and evaporator system according to 63.446(c)(2). 			from more than one compliance demonstration (e.g., initial and subsequent demonstrations as			You may enter the date/results from more than one compliance demonstration (e.g., initial and	kraft condensates, then in addition to the question below, you are		You may enter the date/results from more than one compliance demonstration (e.g., initial and	are used to treat the condensate (for example, usually steam stripping but biological treatment when the steam	
	Provide for all entries. This	digester and evaporator condensates). Select "Other systems" to describe condensate streams that are un- named (i.e., not listed in §63.446(b)) but are controlled to	Enter Emission Unit ID(s) or Collection system ID(s) (matching the PI Equip deta	r treatment. If "Partially" complete question II for the ail uncontrolled portion of the condensate	2A - Mil cellects/controls pulping process condensate streams containing a combined total of at least 7.2 lb total HAP/ton DDP, according to 63.446(c)(3), for mills that DD NOT perform bleaching, 28 -Mill collects/controls pulping process condensate streams containing a combined total of at least 11.1 lb			shown in the example). If necessary, submit results for multiple compliance		Select from menu. Control options	subsequent demonstrations as shown in the example). If necessary, submit results for multiple compliance	asked in the WW tab to supply the results of the four guarterly tests	Select from menu. Control options an	subsequent demonstrations as shown in the example). If necessary, submit results for	stripper is down). Pick from the menu and write in a	
Instruction: Survey reference:	should match NEI Site ID use in Part II.	ed meet subpart S as part of an innovative or equivalency-by- permit project.	tab) that are associated wit the condensate stream	th stream; and complete questions III-VII for controlled portion of the condensate stream	rthe total HAP/ton ODP, according to 63.446(c)(3), for mills that perform bleaching. am. C Mills uses equivalency-by-permit or other means of compliance for the "named" streams. II - uncellected/uncontrolled	Specify Emission Unit ID(s)	Select from menu. Control options are described in the survey overview document.	demonstrations in a separate attachment.		are described in the survey instruction document.	demonstrations in a separate attachment. V - biological treatment	conducted in calendar year 2009.	Write in condensate treatment method described in the survey instructiondocument.	multiple compliance demonstration in a separate attachment.	description of how the different treat methods are used. VII - multiple treatment metho	tent Enter any comments that you may have regarding the data supplied in this table.
						For condensates treated by										
			Emission Unit IDs (or			recycling to equipment meeting the kraft pulping system vent standards, specify the equipment				For condensates treated by			Specify condensate treatment			
Field: Example entry:	NEI Site ID 999	Kraft condensate stream 1990 Digester systems	Collection System IDs fo HVLC or LVHC systems) DIG-1, DIG-2	r Is condensate stream collected and treated according to subpart S?	Indicate volume reduction option being used, or other reason why condensate stream is not collected and controlled 28	Emission Unit ID receiving recycled condensates.	For condensates treated by steam stripping, specify the control option used	Date of compliance demonstration(s)	Compliance test results (include units)	biological treatment, specify the control option used	Date of compliance demonstration(s)	Compliance test results (include units)	method (if other than steam stripping or biological treatment) Specify the control option used	Date of compliance Compliance test demonstration(s) (include units)	esults Please describe if multiple treatmethods used for this condensat	Comments
	999	199 Combined systems	DIG-3, LVHC-1, HVLC	Y						92% total HAP reduction (by weight)	6/30/2009	94%			As hard on Wills and her her at 1	4.4
	999	999 Evaporator systems	EVAP-1	Y		WASHER	Remove 10.2 pounds/ton ODP	(1) 3/29/2001; (2) 5/15/2007	(1) Removed 15.7 lb HAP;ton ODP; (2) Removed 12.3 lb HAP;ton ODP	Remove 10.2 pounds/ton ODP	NA	NA			a backup when the steam stripper is performing as required	ot
1 2 3																
4 5 6														-		
7 8 9																
10																
13 14																
15 16 17																
18 19 20																
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157 158 159																
160 161 162																

					For condensates treated by recycling to equipment meeting the										
	51 Ch- 10		Emission Unit IDs (or Collection System IDs for I	s condensate stream collected and	Indicate volume reduction option being used, or other reason why condensate stream is not Emission Unit ID receiving recycled	For condensates treated by steam stripping,	Date of compliance	Compliance test results (include	For condensates treated by biological treatment, specify the	Date of compliance	Compliance test	Specify condensate treatment method (if other than steam stripping	Date of compliance	Compliance test results Please describe if multiple treatment	
N	El Site ID	Kraft condensate stream	HVLC or LVHC systems) t	reated according to subpart 57 c	collected and controlled Condensates.	specify the control option used	demonstration(s)	units)	control option used	demonstration(s)	results (include units)	or biological treatment)	Specify the control option used demonstration(s)	(include units) methods used for this condensate	omments
															-
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					For condensates treated by recycling to equipment meeting the leads realised and the second s						
			Emission Unit IDs (or Collection System IDs for Is condensate stream collected and	Indicate volume reduction option being used, or other reason why condensate stream is not	standards, specify the equipment Emission Unit ID receiving recycled For condensates treated by steam stripping.	Date of compliance Compliance test re	For condensates treated by ults (include biological treatment, specify the Date of compliance	Specify condensate treatment Compliance test method (if other than steam stripping	Date of compliance	Compliance test results Please describe if multiple treatment	
NEI Site I	D	Kraft condensate stream	HVLC or LVHC systems) treated according to subpart S?	collected and controlled	condensates. specify the control option used	demonstration(s) units)	control option used demonstration(s)	results (include units) or biological treatment)	Specify the control option used demonstration(s)	(include units) methods used for this condensate	Comments
											-
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Field:	NEI Site ID	Kraft condensate stream	Emission Unit IDs (or Collection System IDs for HVLC or LVHC systems)	r is condensate stream collected and treated according to subpart 5?	Indicate volume reduction option being used, or other reason why condensate a	For condensates treated by recycling to equipment meting the standards, specify the equipment tream is not Emission Unit ID receiving recycle condensates.	e For condensates treated by steam stripping, specify the control option used	Date of compliance Compliance to demonstration(s) units)	For condensates t biological treatme control option use	s treated by ment, specify the Date of compliance Co sed demonstration(s) re	Compliance test Specify esults (include units) jor biolo	r condensate treatment (If other than steam stripping sgical treatment) Specify the control option	Date of compliance used demonstration(s)	Compliance test results (include units)	Please describe if multiple treatment methods used for this condensate	Comments
														1-Mill enfluencies optimities of the second structure of the second structu		

DME control No: XXXX XXXX DME any of the responses inhibitiate sensition Child DME any of the responses inhibitiate sensition DME any of the response inhibitiate sensition <thdme any="" inhibitis="" of="" response="" response<="" tany="" th="" the=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thdme>												
Emissions Balance	Your response will consist	of one row on this left side of the orange line.				CCA Equipment List	Your response will consist of n	nultiple rows on this right side of the orange	line.			
Instruction: Survey reference:	Provide for all entries. Thi should match NEI Site ID used in Part II.	Baseline emissions are measured after compliance has bee achieved with the kraft pulping process condensate is standards, and the revised effluent limitations guidelines and standards in 40 CFR 430 subpart B. The baseline HAP emissions are determined according to §63.447(d).	en HAP emission reductions from baseline are required to be determined in §63.447(e).			Instruction: Survey reference:	Your response will be multiple rows on this side of the orange line	Complete for each emissions unit involved in a CCA calculation. List each emission unit on a separate row and indicate whether it generates debits or credits in the CCA calculation.	Select from menu	List control technology for credit- generating emission units. If applicable list technology applied for under- controlled debit-generating units as well.	, List parameters	Optional. Enter any comments you have on the data supplied.
Field:	NEI Site ID	Baseline emissions (kg total HAP/Mg ODP)	Emission reductions expected through compliance with the CCA (kg total HAP/Mg ODP)	Year compliance last demonstrated using CCA	How many times has the mill changed the CCA compliance strategy (e.g., changed debit or credit emission points) since first demonstrating compliance with the CCA? Please indicate the year(s) of the change(s).	Field:	NEI Site ID	Emission Unit ID	CCA debit or credit generating emission point?	Clean condensate alterative technology applied	Parameters monitored for clean condensate alterative technology	Comments
Example cutty:	73337	0.06	0.34	2007	une-2007	Example endy:	999	99 PM2	credit	other - maintain paper machine white water methanol concentration below 20 mg/l by draining a portion of the methanol-concentrated liquid from the pulp stock and replacing it with cleaner water	paper machine throughput; and methanol concentration (mg/l) in the stock blend tanks (SBT3), machine chest (PM2MC), an save-ail (SVT)	d

OMB Control No:	XXXX-XXXX		Did any of the responses (in	dividual cells) you entered in	this tab contain CBI?	and the second se					
Review Draft	XX/XX/XXXX		If yes, be sure to shade the CE	si-containing cells red and follow	the instructions in section C of the s	survey overview document for submitting CBI.					
For example, a mill that produ	ching or brightening line located a ces bleached chemical pulp, blea	t your mill. Some mills will have ched secondary fiber pulp, and b	only one row, while other mills w prightened mechanical pulp could	ill have a few rows. include three rows (one for each	type of pulp that is bleached/bright	tened using separate bleaching/brightening processes).					
UK = Unknown. NA = Not A	pplicable. See instruction docur	ment for details on use of these t	erms.		,						
Note: The terms "bleaching" a	and "brightening" should be viewe	ed as interchangeable in this tab	(e.g., "Bleaching" can also be rea	id as "Brightening").							
						Use the following bleaching sequence notation:					
						D-Chlorine (Cl2) D-Chlorine dioxide (ClO2)			How does the mill use the bleached pulp produced?		
						E-Alkaline extraction (NaOH etc)			Determine the approximate		
						O-Oxygen (O2)			decimal percentage requested		
						H-Hypochlorite (NaClO) Z-Ozone (O3)			based on annual bleached pulp capacity (ADTBP/yr).		
		This soction (to the left of the				M-Monox-L			This column represents the		
		orange line) is to be completed			Select from menu. Please	S-Sodium hydrosulfite (Na2S2O4)		Enter numeric value for	amount of bleached pulp that is	This column represents the	
	Provide for all entries. This should match NEL Site ID used	by all mills that perform any			explain if the bleaching process cannot be characterized as ECE	S02-S02 Add other notation for bleaching/brightening stages	Enter numeric	air dried tons of	sold (or transferred to another mill	I amount of bleached pulp that is used onsite to manufacture	s
Instruction:	in Part II.	brightening.	Select yes/no	Select yes/no	PCF, or TCF.	not represented above.	value	(ADTBP/d)	bleached market pulp.	bleached paper/paperboard.	
Survey reference:										Annrovimato docimal	
									Approximate decimal	percentage of bleaching	
		Bleaching line ID (if	Are chlorine or chlorinated compounds used in any	Is the bleaching line preceded by O2	Is the process ECF, PCF or		Bleach line operating	2009 nominal daily bleached production	capacity sold as bleached	line capacity used to manufacture paper or	Check
Field:	NEI Site ID	applicable)	stage of the bleaching line?	delignification?	TCF?	Bleaching sequence	hr/yr	capacity, ADTBP/d	market pulp	paperboard onsite	(=1)
Example entry: 1	99999	B1	yes	yes	ECF - elemental chlorine free	DED(DOP)	8500	1	6 0.15	5 0.85	5 1
2											0
3											0
5											0
6											0
8											0
9 10											0
11											0
12 13											0
14											0
16											0
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24 25											0
26											0
28											0
29											0
31											0
32											0
34											0
35											0
37											0
38											0
40											0
41											0
42											0
44											0
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48											0
50											0

Control No:	
ation Date:	
w Draft	
le one row for each bleach	
xample, a mill that product	
Unknown. NA = Not Ap	
The terms "bleaching" ar	

Task blassbirg stass is sludes the tourse.

Example entry:	mixture of HW and SW	Yes	SCBR_BL1	Meet effluent guidelines/standards	99% reduction (by weight) measured as total chlorinated HAP	No	SCBR_BL2	NA (no chlorine or chlorinated compounds used in this stage)	NA (no chlorine or chlorinated compounds used in this stage)	Yes	SCBR_BL1
Field:	Material type	Does stage 1 use chlorine or chlorinated compounds?	Stage 1 control method	Stage 1 chloroform control option(s) used to demonstrate subpart S compliance	Stage 1 chlorinated HAP control option used to demonstrate subpart S compliance	Does stage 2 use chlorine or chlorinated compounds?	Stage 2 control method	Stage 2 chloroform control option(s) used to demonstrate subpart S compliance	Stage 2 chlorinated HAP control option used to demonstrate subpart S compliance	Does stage 3 use chlorine or chlorinated compounds?	Stage 3 control method
Survey reference:						_					
Instruction:	Select from list	Select yes/no	Enter "NA" not applicable if no control is used.	. Select from list	Select from list	Select yes/no	mixers, and vacuum pumps	Select from list	Select from list	Select yes/no	mixers, and vacuum pumps
	chlorinated compounds	5	bleaching stage vent gases are controlled				chemical and steam				chemical and steam
	be completed for bleaching systems that		relevant APCD IDc) if only portions of the				vent, washer hood,				coal tank yont
			Describe the control system (using any								includes the tower
	of the orange line) is to		same APCD_ID) will apply for multiple stages.				Each bleaching stage				Each bleaching stage
	This section (to the right		some cases the same control device (and the								
			Enter the APCD_ID for the control method. In								
			washer hood, seal tank vent, chemical and steam mixers, and vacuum pumps.								
			washer hood, seal tank vent, chemical and steam mixers, and vacuum pumps.	,							

6
OMB Control No: Expiration Date: Review Draft	-										
Include one row for each bleach For example, a mill that produc UK = Unknown. NA = Not Ap Note: The terms "bleaching" ar	ר א ס ר										
Instruction	Select from list	Select from lict	Select vec/no	Each bleaching stage includes the tower vent, washer hood, seal tank vent, chemical and steam mixers, and vacuum pumps	Select from list	Select from list	Select vac/on	Each bleaching stage includes the tower vent, washer hood, seal tank vent, chemical and steam mixers, and vacuum purpos	Select from list	Select from list	Select vec/m
Survey reference: Field:	Stage 3 chloroform control option(s) used to demonstrate subpart S compliance	Stage 3 chlorinated HAP control option used to demonstrate subpart S compliance	Does stage 4 use chlorine or chlorinated compounds?	Stage 4 control method	Stage 4 chloroform control option(s) used to demonstrate subpart 5 compliance	Stage 4 chlorinated HAP control option used to demonstrate subpart S compliance	Does stage 5 use chlorine or chlorinated compounds?	Stage 5 control method	Stage 5 chloroform control option(s) used to demonstrate subpart 5 compliance	Stage 5 chlorinated HAP control option used to demonstrate subpart 5 compliance	Does stage 6 use chlorine or chlorinated compounds?
Example entry:	Meet effluent guidelines/standards	99% reduction (by weight) measured as total chlorinated HA	P Yes	SCBR BL2	Meet effluent guidelines/standards	Outlet concentration < 10 ppmv measured as methanol					
2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 15 16 17 18 19 20 21 22 23 24 20 21 22 23 24 22 23 24 22 23 24 22 23 24 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 30 31 32 33 34 35 36 36 37 38 39 30 31 32 33 34 35 36 36 37 38 39 30 31 32 33 34 35 36 36 37 38 39 30 31 32 33 34 35 36 36 37 38 39 30 31 32 33 34 35 36 36 37 38 39 30 31 32 33 34 35 36 36 37 38 39 34 44 44 45 46 47 48 49 30 31 32 33 34 35 36 36 37 38 39 34 34 35 36 36 37 38 39 34 34 35 36 36 37 38 39 30 31 37 38 39 30 31 37 38 39 30 31 37 38 39 39 30 31 37 38 39 39 30 37 38 39 39 30 37 38 39 39 30 37 38 39 39 30 37 38 39 39 30 37 38 39 39 39 30 37 38 39 39 39 30 37 38 39 39 30 37 38 39 39 30 37 38 39 39 30 37 38 39 39 30 37 38 39 39 44 47 47 48 47 47 48 49 50 50											

C	OMB Control No:					
F	leview Draft	-				
h	nclude one row for each bleach	1				
F	or example, a mill that produc					
L	JK = Unknown. NA = Not Ap	1				
N	lote: The terms "bleaching" a	1				
		Each bleaching stage			Select from list or write in description Select "NA" if	
		vent, washer hood,			ClO2 bleaching is not performed at the mill. Select	
		seal tank vent,			"None" if CIO2 bleaching is performed but no measures	
		chemical and steam			are employed to reduce CO emissions. Otherwise,	Ontional Enter any comments you have on the data
1	nstruction:	pumps	Select from list	Select from list	emissions.	supplied.
S	Survey reference:					
			Stage 6 chloroform control		For mills that use chlorine dioxide (ClO2)	
		Stage 6 control	option(s) used to demonstrate	Stage 6 chlorinated HAP control option used to	measures used to reduce emissions of carbon	
F	ield:	method	subpart S compliance	demonstrate subpart S compliance	monoxide (CO) from bleaching processes.	Comments
E	xample entry:				None (no CO control measure)	
1						

4 5 6

OMB Control No:	XXXX-XXXX		Did any of the res	ponses (individual cells) you	u entered in this tab contain CBI?	survey everyiew dec	umont for subr	nitting CBI					
Review Draft	~~/~~/		il yes, be sure to s	indue the obi-containing cells re	and follow the instructions in section c of th	survey over new doct	americ for subir	intenig CDI.			-		
Provide data for the 20	09 operating year. Do no Not Applicable See in	ot include pulp dryers in this tab.											
Include one (or more) r	ows for each paper mach	line. You may include multiple rows for each paper machine if needed to r	eflect information that	varies considerably by major p	aper grade, copying down information that doe	s not vary (or remains	adequately rep	presentative) from row to row.				
					Specify the approximate fiber makeup of								
					each paper machine furnish.								
					Indicate the makeup by showing an								
					approximate percentage in decimal form								
	Describe for all astrice	Complete table for operable paper machines located at any type of mill	. Select paper		(e.g., enter 0.65 for 65% softwood kraft).								
	This should match NEL	machine produces multiple grades of paper at different times (see	configuration from		You may specify a range (e.g., 0.6-0.7) if								
Instruction:	Site ID used in Part II.	instructions).	the menu or write in	Select from menu	there is variation within a main paper grade.								
Survey reference:					Pulp types used								
			Type of paper										
			machine as										
Field	NEL Site ID	Paper machine Emission Unit ID	currently	Is furnish mixture	Hardwood kraft %	Softwood kraft %	Soda %	Sulfite %	Dissolving/	Semichemical	Hardwood mechanical/	Softwood mechanical/	Secondary fiber %
Example entry:	99999	PM1	Fourdrinier	bleached	0.2	0.65	Soud %	Sume %	specialcy pulp %	puip /6	groundwood %	groundwodd %	0.15
	00000	PM1	Fourdrinior	bloachod	0304	0607							

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OMB Control No:											
Expiration Date:											
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Provide data for the 2	00!										
UK = Unknown. NA	= 1										
Include one (or more)	roi										
			Select from menu the most								
			closely related paper grade(s)								
			produced by the paper								
			machine.								
			If multiple paper grades are					Enter the numeric value for	•		
			produced on the same					the white water			Specify HAPs and
			machine, add the additional		Specify high density pulp			recirculation rate in gallons	Provide typical white water		concentrations if known.
			paper grade(s) in separate		storage (stock chest)			per oven dried ton of pulp	methanol concentration in		You may provide
			rows for the paper machine.		consistency in decimal			(gal/ODTP). This is the	milligrams per liter (mg/l) if		documentation of typical
			Add rows for the major paper		form (e.g., enter 0.15 for			amount of recirculated	it has been measured.		white water HAP
		the design of the second se	grades listed in the pull down	Enter paper machine	15%).	Select yes/no. If yes, please include an	Specify the headbox	white water added to the		Provide typical white water	concentrations (if
		indicate the other pulp type(s) followed	menu only (not for every single	e nominal production	Leave bleek for bleeshad	explanation.	form (a p optor 0 001 for	pulp stock prior to the	HAP concentrations at the	acetaidenyde concentration	i measured) as a separate
In at most in m		by its approximate decimal percentage	minor variation within every	capacity in air dried	Leave blank for bleached	Leave black for blackbad suite	o 100	paper machine	paper machine wet end are	in milligrams per liter (mg/l) attachment to your survey
Instruction:		(e.g., sortwood semichem - 0.10)	Rapor paper grade).	tons paper/day (AD1/d) puip.	Leave blank for bleached pulp.	0.1%)	neadbox/wet end.	of interest.	Il it has been measured	response.
Survey reference:			Faper machine details					1			
						For unbleached pulps, has the mill taken					
						steps (e.g., installed a screw press) to					
					For unbleached pulps,	raise the consistency of the pulp in high				White water	
					what is the consistency	density storage in order to reduce	What is the consistency	White water	White water methanol	acetaldehyde	White water other HAP
		O (1)		Nominal production	of pulp in high density	emissions associated with the fluid in the	of pulp entering the	recirculation rate,	concentration, mg/l (if	concentration, mg/l (if	concentration, mg/l (if
Field:	Non-wood fiber %	other % (specify)	Paper grade produced	capacity, ADI/d	storage (%)?	unpleached pulp?	paper macrine (%)?	gai/ODTP	known)	known)	known)
Example entry:			coated free sheet	935			0.001	48,300	28	UK	UK
_			uncoated free sheet	1050			0.001	48,300	28	UK	UK
1											
2											

4 5 6

OMB Control No:	_								
Expiration Date: Review Draft	-								
Provide data for the 20	0(
UK = Unknown. NA =	:								
Include one (or more) r	01								
	Enter description. Examples may								
	organics in the pulp stock liquid or Enter	the number of vents/stacks on							
	white water (e.g., use of clean the pa condensates in final stage of pulp forming	aper machine wet end (e.g.,							
	washing); or switching to non-HAP or other	portions of paper machine				Select air dryer firing method from menu or write in.			
	atmos	sphere. Count vents ducted				Air dryers are direct fired or indirect-fired (use steam-to-	Enter the number of vents/stacks on the paper		
	Note Emission Unit ID of stripper if togeth used to strip organics from the paper atmos	her prior to release to the sphere as one vent (e.g., count	Enter the total exhaust gas flow rate			air heat exchangers to produce a hot air stream that is forced over the surface of the paper). Hoods are used to	machine associated with the paper machine dryer(s) Count vents ducted together prior to release to the	Enter the total exhaust gas flow	
	machine white water (or pulping 4 vacu	uum system vents ducted	from the wet end vents/stacks in	Specify APCD_ID from the PI Controls	Enter number of	contain and route the air flow. Air dryers tend to be used	atmosphere as one vent (e.g., count 4 dryer system	rate from the dryer vents/stacks in	Specify APCD_ID from the PI Controls
Instruction:	in the Equip detail tab.	sphere as one vent stack).	known)	used on wet end vent gases).	cylinders	supplement the drying of steam cylinders.	atmosphere as one vent stack).	known)	used on dry end vent gases)
Survey reference:					1				
				Add-on air pollution controls					Add-on air pollution controls
	Describe any process		Total exhaust gas flow rate from	used to reduce HAP emissions				Total exhaust gas flow rate	used to reduce HAP emissions
Field:	HAP emissions from the wet end wet e	end	(if known)	APCD_IDs)	steam cylinders	used	Number of dryer vents/stacks	acfm (if known)	APCD_IDs)
Example entry:		16 16	456,000		50	steam-heated (indirect-fired)	4	90,000	
1		10	150,000		50			50,000	
2									
4									
5									
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OMB Control No:	_			
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rovide data for the 200	0!			
JK = Unknown. NA = nclude one (or more) ro	: I 0)			
	paper machine dry end following the			
	dryers (e.g., vents around the calendering and winding areas) that	Enter the total exhaust gas flow rate from	improvements that might reduce HAP	
	vent to the atmosphere. Count vents ducted together prior to release to the	dry end vents/stacks not associated with the paper machine dryer(s) in actual cubic	emissions from the paper machine dry end (dryers or other vents/stacks	Optional. Enter any comments you have on the data
nstruction: Survey reference:	atmosphere as one vent.	feet per minute (if known)	following the dryers).	supplied.
			Describe any process improvements	
	Number of vents/stacks following	Total exhaust gas flow rate from the	used to reduce HAP emissions from	6
Example entry:	2	40,000	the dry end	Comments
L	2	40,000		
.0				
12				
13 14				
15 16				
17				
19				
20				
22				
23 24				
25				
27				
28 29				
30 31				
32				
33 34				
35 36				
37				
38 39				
40 41				
42				
43 44				
15				
16				
46 47				
6 7 8 9				

	and a second sec		Separate with commas if multiple HAP are	Enter numeric value of additive amount	Enter description of any		
struction: arvey reference:	Provide for all entries. This should match NEI Site ID used in Part II.	i List additive type	present (e.g., formaldeyde-5%, acetaldehy 2%). Attach additional information to your survey response if necessary.	de-used (not the amount of the additive ingredient used). Select from list or write in	substitute additives.	Enter description	Optional. Enter any comments supplied.
			H&P content (% by volume or ppmv fo	Amount of additive	is the mill aware of any substitutes for this additive that do not contain the listed HAP? If so, please	indicate if the additive substitute(s) listed in the previous column contain other compounds that may not be desirable from a worker safety	
eld: :ample entry:	NEI Site ID 99909	Additive Wet strength resin	liquids; % by weight or pprov for solid Formaldehyde - 5%	 used in 2009 Units for amount 8,000 Ib/day 	describe. UK	perspective UK	Comments
0 1 2							
u 4 6							
7 8 9							
1 2 3							
4 5 6 7							
8 9 0							
1 2 3							
5 6 7 9							
9 0 1							
2 0 4 5							
6 7 8							
0							
4 5 6							
7 8 9							
1 2 3							
4 5 6 7							
8 9 0							
4 2 3 4							
5 6 7							
e 9 0 1							
2							
5 6 7 8							
9 0 1							
2 0 4 5							
67							
9 0							
1							

Field:	NEI Site ID	Does the mill perform onsite wastewater treatment beyond operation of a clarifler for suspended solids removal?	If mill wastewater treatment is outsourced to a POTW or private entity, indicate pre-treatment steps occuring onsite at the mill.	For kraft pulp mills outsourcing watewater treatment is biological treatment performed at the WWTP used to demonstrate compliance with the subpart 5 kraft condensate standards?	Dees 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. We have OSIA limits for H25 and other compounds. See WWP etachment with our	Has fenceline monitoring for air emissions (including WWTP air emissions) been performed since the discer rules (IRSIAP subpart 5 and the pulp and paper effluent limitations)?	Have air emissions associated with the WWTP been measured?	Have air emissions associated with the WYTP been estimated (e.g., with 40 CFR part 63 Appendix C and WATER9 o another model)? yes (see seconde WVTP attachment with	Explain how wastewater treatment system emissions are accounted for In your air permit If you answered "no" to the previous 3 questions	WWTP throughput, MMgal/day
Instruction:	Provide for all entries. This should match NEI Site ID used in Part II.	Select yes or no. If yes, please continue with completion of the WW tab. If no, see the instruction document.	Select from menu or write in.	Select from menu: Yes – Biological treatment occurring at the wastewater treatment entity standards for kraft condensates. OR No. "The mill uses a methods other than biological treatment to comply with the kraft condensate standards. If you answer yes, blnE PA requests that you complete the remainder of this WW tab to the extent that information is available for the WWTP.	Specify yesino.		Select yes or no. If yes, submit the most recent measurement methods and results as a separate file attachment to your survey response.	Select yes or no. If yes, submit the most recent 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 waterwater treatment system have been conducted, please explain how waterwater treatment system emissions are waterwater treatment system air pollutants for which limits are specified in your air permit. Select net applicable "NA" from menu if you answered yes to one of the previous 3 questions. Select the mean successful air emissions associated with waterwater treatment are not addressed in your air permit.	Enter the 2009 average daily throughput of the wastewater treatment plant (million gallons per day)
OMB Control No: Expiration Date: Review Draft WWTP = wastewater treatment pla Provide a flow diagram of each WW UK = Unknown. NA = Not Appli Use this table to specify any Feder	xxxx-xxxx xx/xx/xxxx ant YTP showing each wastewater handling/ cable . See instruction document for det ral/State/local requirements, permit limits	reatment unit. alis on use of these terms. , encicien motioning, measurement methods, or modeling methods that apply for me	Did any of the responses (Individua If yes, be sure to shade the CBI-conta asurement or estimation of air emissions (If cells you entered in this take contain CMI? uning cells red and follow the naturations in section C of the survey over HAP, TRS including H2S) associated with the WWTP.	view document for submitting CBI.			1			

OMB Control No: Expiration Date: Review Draft	_											
WWTP = wastewater treatment pla Provide a flow diagram of each WW UK = Unknown. NA = Not Applic Use this table to specify any Federa	nt TP sal											
Instruction:	If known, enter the approximate volume percentage of water entering the WWTP from each genera mill location. Use decimal percentages (e.g., enter 0.75 for 75%). See the instruction documen for joint WWTP's shared by multiple mills.							Select the general type of WWTP used by you mill. Select from menu or write in a description.	Select from list or write in description. Include systems installed for the purpose of reducing emissions from the WWTP, or systems that were not installed for this purpose but conidentially lead to switchildly reduced emissions from the WWTP.	Enter short description Include practices/measures implemented for the purpose of reducing emissions from the coincidentally lead to substantially reduced emissions from the WWTP.	Select from list or write in description include practice-immenuses implemented for the parasece relation parasissions from the WWTP: or practices/immesure that were not immershered for this parase but coincidentially lead to substantially reduced emissions from the WWTP:	Ust the wastewater treatment units in your WWTP (separated by commas) in the general second provide the source of the second se
Field:	Approximate volume percentage of WWTP capacity from kraft condensate streams hard piped for biological treatment in the WWTP (per subpart S) (if known	Approximate volume percentage of WWTP capacity from chemical pulping and chemical recovery processes (other than subpart S hard-piped kraft condensates) (if known)	Approximate volume percentage of WWTP capacity from non-chemical julping processes (e.g., mechanical, secondary fiber, or non-wood pulping (if known)	Approximate volume percentage of WWTP capacity from the power and Approx WWTP capacity from the power and Approx blowdown, wet ash handling systems) (if capacity known)	ximate volume Ap ntage of WWTP per ty from bleaching cap sees (if known) pro	pproximate volume Appr ercentage of WWTP perce apacity from papermaking capa cocesses (if known) proce	roximate volume entage of WWTP citly from other esses (if known) Check (=	General type of wastewater treatment	Identify upstream process wastewater treatment systems that reduce wastewater treatment unit air emission of nonchlorinated organic HAP and TRS (including HZS).	Describe any upstream practices or pollution prevention measures that reduce wastewater treatment unit air emissions of nonchlorinated organic HAP and TRS (including H2S).	Describe any upstream practices or pollution prevention measures that reduce wastewater treatment und air emissions of chiorinated HAP.	List the wastewater treatment units in your WWTP in the general sequence in which they are used
								Annual state Weaking from the design of a second				
Example entry: 1	0.05	0.25	NA	0.05	0.2	0.35	0.1	Aerated stabilization basin (aerated surface impoundment)	steam stripper (STRIPPER)		Use CIO2 bleaching (instead of chlorine or hypochlorite)	Clarifiers 4-5 (in parallel), aeration basins 1 and 2, activated sludge basin, and secondary clarifiers 4-6 (in parallel)
5 6 7 7 8 9 9 10 11 11 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13												

OMB Control No: Expiration Date: Review Draft WWTP = wastewater treatment plant															
Provide a flow diagram of each WWTF UK = Unknown. NA = Not Applicat Use this table to specify any Federal/		Biological treatment system p	erformance data (required for biolo	gical treatment systems controlling	kraft pulping condensates):										
Instruction:	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 Emission unit ID column of the PT Equip detail and in those tabs.	This question applies for non- thoroughly mixed biological treatment units. Specify the number of zones used to characterize the biological treatment system (e.g., under 40 CFR part 63, Appendix C). Enter "NA" if not applicable.	First quarter (Q1) compliance determination for 2009		See equation in §63.457(I) of subpart for calculation of "r"	The value of $F_{\rm int}$ (MeOH) is used in the equations in §53.457(I) of subpart 5 fr purposes of determining percent 5 reduction or mass removal of total HM in a biological treatment system	Enter the percent reduction of total HAP if percent reduction is used to demonstrate compliance with subpart S. For example, enter "32" for a 92 percent reduction. Leave blank if the percent reduction compliance option i or not used. AP "Total HAP" includes acetaldehyde, methanol, MEX, and propionaldehyde	s Enter the mass removal of total HAP if mass removal is used to demonstrate compliance removal compliance option is not used.	s Second quarter (Q2) compliance				Third quarter (Q3) compliance		
Survey reference:	Identify any wastewater treatment units from the list in the previous column that are			Q1 mass flow rate of							Q2 percent reduction in total HAP (calculated using the				Q3 percent reduction in total HAP (calculated using the
Field:	closed systems. Indicate controls if the unit is equipped with a closed vent collection system and APCD.	Number of zones used to characterize the biological treatment system	Q1 mass flow rate of methano entering the system (kg/Mg ODP)	ol acetaldehyde, MEK, and propionaldehyde entering the system (kg/Mg ODP)	Mass flow ratio of non-methanol total HAP to methanol (value of "r")	Q1 value of F _{bis} (MeOH) determine according to 40 CFR 63 Appendix C	d Q1 percent reduction in "total HAP" (%)	Q1 mass removal of "total HAP" (kg/M ODP)	Q2 mass flow rate of methanol g entering the system (kg/Mg ODP)	Q2 value of F _{kie} (MeOH) determined according to 40 CFI 63 Appendix C	quarterly methanol R measurement and value of "r" a specified in subpart S), %	Q2 mass removal of "total HAP" as calculated as specified in subpart S (kg/Mg ODP)	Q3 mass flow rate of methanol entering the system (kg/Mg ODP)	Q3 value of F _{bio} (MeOH) determined according to 40 63 Appendix C	quarterly methanol CFR measurement and value of "r" as specified in subpart S), %
Example entry:	NA	4	11.5	0.35	0.03	0.97	94		5.9	0.92		5.3	9.8	0.98	95
3 4 5 6 7 7 8 8 9 10 10 11 11 11 11 11 11 11 11 11 11 11															
80 81 82 83 84 85 85 93 93 93 93 93 93 93 93 93 93 93 93 93															

OMB Control No: Expiration Date: Review Draft	_				
WWTP = wastewater treatment p Provide a flow diagram of each W UK = Unknown. NA = Not App Use this table to specify any End	plant WVTP blicat				
use this table to specify any red	eral/:				
Instruction:		Fourth quarter (Q4) compliance			Ontinnal Enter any comments you have on the data subnied
Survey reference:					
Field:	Q3 mass removal of "total HAP" calculated as specified in subpart S (kg/Mg ODP)	Q4 mass flow rate of methanol entering the system (kg/Mg ODP)	Q4 value of F _{bic} (MeOH) determined according to 40 CFR 63 Appendix C	Q4 percent reduction in total HAP (calculated using the quarterly methanol Q4 mass removal of "total HAP measurement and value of "r" as calculated as specified in specified in subpart S), "s subpart S (kg/Mg ODP)	Comments
Evample entry:		123	0.95	97	
		88.d	0.33	JE	
0					
2 3 4 5					
5 7 3 9					
0 1 2 3					
4 5 6 7					
8 9 0 1					
2 3 4 5					
6 7 8 9					
0 1 2 3					
4 5 5 7					
, 8 9 0					
- 2 3 4					
6 7 8					
50 51 52					
55 55 56					
57 58 59 70					
1 12 73 74					
5					

OMB Control No:	xxxx-xxxx		Did any of the responses (individual cells) y	ou entered in this tab contain CBI?			
Expiration Date: Beview Draft	xx/xx/xxxx		If yes, be sure to shade the CBI-containing cells	red and follow the instructions in section C of the su	rvey overview document for submitting CBI.		
			If you are required to submit a Part III respo	nșe, are you deferring until Part III submittal o	f any of the test data required in Attachment	1 to the Part I survey instructions?	
Use this table to identify the speci	fic emission units for which emission to cable. See instruction document for d	est reports are being submitted. EPA will extract t etails on use of these terms	he test data from the emission test reports.				
See Attachment 3 of the Part I sur	vey instruction document for a list of e	missions test reports to be submitted.					
			Leave columns that do not apply for a given				
			emission unit blank.				
			Specify the collection system if applicable.	Provide the APCD used during the emissions test.			
		Provide for all entries Emission Unit IDs should	(Examples of collection systems include closed	APCD IDs should match those used in other tabs	Enter combustion controls used during the	Use this column for notes or if helpful to specify the emission points tested (e.g., for equipment	Enter year testing
	Provide for all entries. This should	match those used in other tabs such as the PI	Collection system IDs should match those used in	such as the PI Equip detail tab (unless equipment	modifications/controls specified in the PI Equip	with multiple emission points, where only selected	d (i.e., the test date
Instruction: Survey reference:	match NEI Site ID used in Part II.	Equip detail tab.	other tabs such as the PI Equip detail tab.	configuration has changed).	detail tab)	emission points/vents were tested)	year)
					Combustion modifications or controls used		
Field			Collection system (D(s)		to reduce air pollution (from combustion	Process testing notes (antional)	Test report
Example entry:	99999	DIG-1, DIG-2, EVAP	LVHC-1	LK1/SCBR2	sources)	Process testing notes (optional)	2006
	99999	LK1		SCBR2			2006
1							
3							
4							
6							
7							
9							
10							
11							
13							
14							
16							
17							
18 19							
20							
21							
23							
24							
25 26							
27							
28							
30							

					Combustion modifications or controls used to reduce air pollution (from combustion		Test report
Field:	NEI Site ID	Emission Unit ID(s)	Collection system ID(s)	APCD_ID(s)	sources)	Process testing notes (optional)	year (XXXX)
52							
53							
54							
55							
56							
57							
50							
60							
61							
62							
63							
64 67							
00 66							
67							
68							
69							
70							
/1							
73							
74							
75							
76							
77							
78 79							
80							
81							
82							
83							
85							
86							
87							
88							
89							
90 91							
92							
93							
94							
95							
90 97							
98							
99							
100							

OMB Control No: Expiration Date:

Review Draft

Use this table to identify the specific **UK = Unknown**. **NA = Not Applic** See Attachment 2 of the Part Lourie

See Attachment 3 of the Part I surve								
Instruction:	List the pollutants tested. Separate multiple pollutants by commas.	Enter the EPA test method number (e.g., MS, MTE). Be very specific if the method used was not an EPA method.	Specify if APCD inlet or outlet data are provided (or both)	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.	OPTIONAL: Data regarding frequency and cost of testing would help EPA more accurately estimate testing costs associated with the pulp and paper NESHAF and NSPS.	OPTIONAL	Optional. Enter any comments you have on the data supplied.
Survey reference:								
Field:	Pollutants tested	Test method(s) used	Are inlet or outlet data provided?	Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?	If yes, please explain	How often are you required to perform testing of this emission unit for the pollutants listed?	Approximate cost per test, \$	Comments
Example entry:	methanol	M308	inlet and outlet	no		one-time test only	12000	
	PM	M5	outlet	no		annually	6000	

Drop Down List	Field	NOTE
Frequently Used Dran Dawns		
a requency over prop powns		•
		_
Yes	CBI Box All tabs but Permit Limits	All tabs but Permi
No		
	Could dealer and the second	ACII
yes	Silidii bushless	IVIIII
no UK		
		_
	P&P NESHAP subpart S	Mill
Applies	Paper/web coating NESHAP subpart JJJJ	Mill
NA NA Sumthatia Area Sauraa	Other NESHAP (list subparts)	
INA-Synthetic Area Source		_
Applies	Kraft NSPS subpart BB	Mill
NA		
	Has the mill taken steps within the last 10 years to control makeup water quality for the	equip
	causticizing emission unit such that air emissions from any equipment would be reduced?	
	Is the stripper integrated with the multiple effect evaporator system?	equip
	Is emission unit subject to NESHAP subpart S?	equip
	Does the mill purchase secondary fiber pulp?	Mill
	Is natural gas supply currently available to the mill (e.g., truck delivery or pipeline)?	Mill
	Does the mill purchase virgin pulp?	Mill
	Does the mill produce virgin pulp?	controls
	Is WESP preceded by a quench chamber	controls
	Have fields/chambers been added to expand the ESP within the last 10 years?	controls
	Is water recirculated?	pulp
	Sawmill residues Chips produced offsite	pulp
	Chips produced onsite	pulp
	For 1MP or pressurized groundwood systems, is a heat recovery system used?	bleaching
	Is the bleaching line preceded by O2 delignification?	bleaching
	Are chorme of chormated compounds used in any stage of the bleaching line:	bleaching
	Does stage 6 use chlorine or chlorinated compounds?	bleaching
	Does stage 4 use chlorine or chlorinated compounds?	bleaching
	Does stage 3 use chlorine or chlorinated compounds?	bleaching
	Does stage 1 use chlorine or chlorinated compounds?	WW
	Have air emissions associated with the WWTP been estimated (e.g., with 40 CFR part 63 Appendix C and WATER9 or another model)?	WW
	Have air emissions associated with the WWTP been measured?	ww
	Has fenceline monitoring for air emissions (including WWTP air emissions) been performed since the mill came into compliance with the cluster rules (NESHAP subpar	t
	S and the pulp and paper effluent limitations)?	
	Does the mill have permit limits (including occupational health limits) related to air	Emission
	pollutants specifically from wastewater sources?	Emiocian
Yes	APCD changed since the test was conducted?	LINISSION
No	If you are required to submit a Part III response, are you deferring until Part III	

major area (true) synthetic minor UK

Primary NAICS
322110-Pulp Mills
322121-Paper (except Newsprint) Mills
322122-Newsprint Mills
322130-Paperboard Mills
322211-Corrugated and Solid Fiber Box Manufacturing
322212-Folding Paperboard Box Manufacturing
322213-Setup Paperboard Box Manufacturing
322214-Fiber Can, Tube, Drum, and Similar Products Manufacturing
322215-Non-Folding Sanitary Food Container Manufacturing
322221-Coated and Laminated Packaging Paper Manufacturing
322222-Coated and Laminated Paper Manufacturing
322223-Coated Paper Bag and Pouch Manufacturing
322224-Uncoated Paper and Multiwall Bag Manufacturing
322225-Laminated Aluminum Foil Manufacturing for Flexible Packaging Uses
322226-Surface-Coated Paperboard Manufacturing
322231-Die-Cut Paper and Paperboard Office Supplies Manufacturing
322232-Envelope Manufacturing
322233-Stationery, Tablet, and Related Product Manufacturing
322291-Sanitary Paper Product Manufacturing
322299-All Other Converted Paper Product Manufacturing

Worldwide employees <50 Facility employees 50-99 100-499 500-749 750-999 >1000

Expect DDDDD to apply Expect CISWI to apply

Expect DDDDD and/or CISWI to apply (to be determined based on final applicability of these rules) NĂ

D Da Db Dc

K Ka Other NSPS (list subparts)

Kb GG Other (enter 40 CFR part 60 subpart) NA

yes

yes - use pre-consumer fiber yes - use post-consumer fiber

yes - use pre- and post-consumer fiber

no

Dissolving pulp Softwood chemical market pulp Hardwood chemical market pulp Types of market pulp produced by the mill

Does the mill produce pulp from secondary fiber?

Boiler NESHAP subpart DDDDD (or CISWI emission guidelines/NSPS) that are under development

Boiler NSPS

yes-bleaching
yes-brightening
yes-bleaching and brightening
yes-other {specify}
20

other (specify type)

UK pre-1990

Paper grade 1 Paper grade 2 newsprint Paper grade 3 coated free sheet Paper grade 4 uncoated free sheet coated groundwood Paper grade 5 uncoated groundwood Paper grade 6 tissue & sanitary Paper grade 7 specialty packaging & industrial Paper grade 8 kraft packaging Paper grade 9 Paper grade 10 linerboard corrugating medium solid bleached board recycled board construction paper and board

Is bleaching or brightening performed at the mill?

PI Equip detail Tab	
	Configuration if not emitted through a conveyance
NV	
BLDG	
FUGITIVE	

inlet to collection system collection system outlet prior to control device, inlet to control device, control device outlet

prior to atmospheric release

Combustion controls low NOx burners quarternary air other {specify}

Recovery furnace ESP (dry bottom) Recovery furnace ESP (wet bottom) ESP (dry) Wet ESP (WESP) Scrubber - venturi Scrubber - quench Scrubber - packed bed Scrubber Absorber Mist eliminator Thermal oxidizer/incinerator Regenerative thermal oxidizer Multicyclone Cyclone (excluding product recovery cyclones) Fabric filter (baghouse) Condenser Gravel bed

APCD2 type APCD3 type

APCD1 type APCD4 type

Year emission unit installed

Location of flow rate provided

Reason subject to BB

new modified reconstructed modified or reconstructed (not sure) collects emissions from BB emission units

5 ppmdv @ 10% O2 (combustion control)

5 ppmdv, uncorrected for O2 (control other than combustion) combust gases in lime kiln or recovery furnace subject to subpart BB combust gases at 1200oF for at least 0.5 sec incinerating brown stock washer gases is not feasible uncontrolled digester gases contain <0.01 lb TRS/ton ADP 8 ppmdv @ 10% O2 (lime kilns) 0.033 lb/ton BLS as H2S (SDTs) 5 ppmdv @ 8% O2 (straight recovery furnace) 25 ppmdv @ 8% O2 (cross recovery furnace) Meet permit limit more stringent than NSPS Specify TRS compliance option used to demonstrate NSPS subpart BB compliance (if applicable) Specify TRS compliance option used for backup method of control (if applicable)

Reduce total HAP emissions by 98 wt%

Subpart S compliance option used (for primary method of control) Subpart S compliance option used (for backup method of control, if applicable)

Provide reason if not controlled to meet subpart S

Reduce total HAP concentration at the outlet of thermal oxidizer to <20 ppmv @ 10% O2 (dry basis)

Reduce total HAP emissions using a thermal oxidizer operating >1600F and >.75 secs residence time

Use a boiler, LK, or RF in which the HAP gas stream in introduced with the primary fuel into the flame zone

Use a boiler or RF with a heat input capacity >150 MMBtu/hr (44 MW) in which the HAP gas stream is introduced with the combustion air

Clean condensate alternative (§63.447).

0.89 lb/ton ODP (for Ca- or Na-based sulfite pulping)

92% reduction by weight (for Ca- or Na-based sulfite pulping)

2.2 lb/ton ODP (for Mg-based or NH3-based sulfite pulping)

87% reduction by weight (for Mg-based or NH3-based sulfite pulping)

Systems of this type at existing sources are not subject to subpart S Mill is a synthetic area source The system does not match the definitions for controlled systems in subpart S. Provide reason (e.g., due to specific location of the system in the process line). Exception 63.443(a)(ii)(A): knotter system with HAP emissions <0.1 lb/ton ODP Exception 63.443(a)(ii)(B): screen system with <0.2 lb/ton ODP, Exception 63.443(a)(ii)(C): knotter and screen system with combined emissions <0.3 lb/ton ODP

Exception 63.443(a)(iv)(A): decker uses only fresh water or paper machine white water

Exception 63.443(a)(iv)(B): decker uses process water with < 400 ppmw Mill received equivalency by permit approval Mill undertook innovations project Emissions from this unit were offset using CCA Other - specify

Batch or continuous

Batch Continuous

	Wood type (HW, SW, HW/SW swing)
HW	
SW	
HW/SW swing	
HW and SW	
Non-wood	
	Washer types and sequence
vacuum drum	
diffusion	
pressure	
Delt	
	Type of shower water used in decker
contaminated condensates	
clean condensates	
white water	
NA	
141 L	
	Type of stripper
steam	
air	
	Primary reason for installation of the stripper
TRS control	
BOD reduction	
water conservation	
subpart S kraft pulping condensate standards	
nonchiorinated organic HAP control	
	Tank contents
weak black liquor	
strong black liquor	
high density pulp	
white liquor	
green inquor	
	Tank control technique
Open tank	-
FR =fixed roof	
EFR = external floating roof	
IFR = internal floating roof	
Collection system and control device	
Emissions routed to process (enter Emission Unit ID)	
	If floating roof is used, type of seal
NA N	
Mechanical shoe primary seal (MS1)	
MS1 with shoe mounted secondary (MESA)	
MS1 with rim mounted secondary (MESA)	
Induite mounteed primary seal (LM1)	
vanor mounted primary seal (VM1)	
M1 with rim mounted secondary (VM2)	

Pond contents

Untreated process condensates from {specify process - e.g., evaporator, blow heat recovery} surface water fresh water process water {specify source} treated wastewater

partially treated wastewater {specify last wastewater treatment unit water passed through} mixture {specify sources}

	Primary fuel type
natural gas	Supplemental fuel type 1
#2 distillate oil	11 51
#6 residual oil	
bark	
hog fuel	
turpentine	
tall oil	
petroleum coke	
tire-derived fuel	
wastewater treatment plant residuals	
OCC rejects	

Btu/gal MMBtu/ton Btu/MMscf Optional: Primary fuel HHV units Optional: Supplemental fuel type 1 HHV units

routine use (multi-fuel fired unit) startup backup shutdown pilot light during upset conditions seasonally during curtailments or peak prices when turpentine prices are low when tall oil prices are low Conditions when supplemental fuel type 1 used

Measures employed to reduce air emissions during emission unit startup (if any) emission unit and control device operates in compliance with NSPS and NESHAP parameter limits during emission unit startup emission unit and control device operates during emission unit startup (but not necessarily in compliance with all NSPS/NESHAP parameter limits) backup/alternate control NA - applicable emission and parameter limits not expected to be exceeded during startup Measures employed to reduce air emissions during shutdown (if any)

continue routing emissions to LVHC-1 collection system and primary or backup control system

continue routing emissions to LVHC-1 collection system and primary or backup control system

stop routing process condensates to stripper before beginning shutdown NA - applicable emission and parameter limits not expected to be exceeded during shutdown

emission unit and control device operates during emission unit startup (but not necessarily in compliance with all NSPS/NESHAP parameter limits) continue routing emissions to LVHC-1 collection system and primary or backup control system

Temperature drops below 200F

PI Permit limits

Source(s) of makeup water added to mud washer or precoat filter

SO2
sulfuric acid mist
NOx
CO
Pb or other HAP metals
VOC
THC
HCl
Methanol and gaseous organic HAP
Chlorine and chlorinated HAP
Opacity
PM
PM - filterable
PM - condensable
PM10
PM10 - filterable
PM10 - condensable
PM2.5
PM2.5 - filterable
PM2.5 - condensable

If the permit limit is identical to the Federal NESHAP or NSPS limit, you may enter the NESHAP/NSPS subpart here rather than restating the Federal limit in the columns to the right

Units for permit limit 1 (including any applicable %O2 or %CO2 correction factors)

Subpart S (P&P NESHAP) Subpart MM (P&P combustion source NESHAP) Subpart BB (Kraft NSPS) Subpart BB (Kraft NSPS) - 1978 Subpart BB (Kraft NSPS) - 1986 revision

gr/dscf @ 8% O2 gr/dscf @ 10% O2 lb/ton BLS ppmdv @ 8% O2 ppmdv @ 10% O2 lb/ton BLS (as H2S) lb/MMBtu ppmdv % reduction % opacity

	Averaging time for permit limit 1 (if applicable)
3-hour	Averaging time for permit limit 2 (if applicable)
12-hour	Averaging time for permit limit 3 (if applicable)
daily	Averaging time for permit limit 4 (if applicable)
test	Averaging time for permit limit 5 (if applicable)

PI Controls

Recovery furnace ESP (dry bottom) Recovery furnace ESP (wet bottom) ESP (dry) Wet ESP (WESP) Scrubber - venturi Scrubber - quench Scrubber - packed bed Scrubber Absorber Mist eliminator Thermal oxidizer/incinerator Regenerative thermal oxidizer Multicyclone Cyclone (excluding product recovery cyclones) Fabric filter (baghouse) Condenser Gravel bed

Type of control device

	Incinerator type
Single-stage combustion chamber Two-stage combustion chamber	
Regenerative thermal oxidizer (RTO)	
	What is the recovered heat from the incinerator exhaust used for?
preheat incoming emission stream	
produce steam	
	Sorbort tupo
activated carbon	Sorben type
lime the Grant D	
other (specify)	
	List collectors the contraction constrained to control
acid gases (HCl, SO2, HF)	List ponutants the soluent injection was installed to control
SO2	
Hg dioxins	
	Bag cleaning method
Shake	Sug creaning incurve
Reverse air	
r mac let	
	Water source
surface water	
fresh water	
treated wastewater	
partially treated wastewater {specify last wastewater treatment unit water passed through} mixture {specify sources}	
	Wastewater (blowdown) reuse or disposal method
Treated in onsite wastewater treatment plant	
Recycled to SDT	
Recycled to process: {specify equipment receiving water using Emission Unit ID OR APCD_ID}	
POTW Other {specify}	
	Type of material collected
PM	Jr
PM and sorbent Sorbent	
	End use/method of disposal for solid material collected
landfill onsite	Like doe method of disposal for some matched contened
lantfill offsite recycle to causticizing system	
1	

sent to salt cake mix tank reuse {specify}

pressure drop liquid flow rate voltage current temperature (specify if inlet, outlet, bed, or other temperature) pН percent solids in recycle water other (specify)

List continuous parameter monitoring systems used for this control device (e.g., pressure drop, liquid flow)

Explain how control device startup is integrated with (dependent upon) emission unit startup/operation Control device is started up and meets required operating parameter limits before emission unit is started up. Control device cannot be started prior to emission unit starting up due to safety issue or risk of property damage. {Explain} Control device cannot function as designed unless an air flow rate of {specify} acfm from the emission unit is achieved.

List any control device continuous emissions monitoring or operating parameter limits that cannot be met during control device startup The applicable emission and parameter limits are expected to be met during startup

Explain how control device shutdown is integrated with (dependent upon) emission unit shutdown Control device continues to operate and meets required operating limits while emission unit is shut down. Control device cannot operate during emission unit shut down due to safety issue or risk of property

Control device cannot function as designed unless an air flow rate of {specify} acfm from the emission unit is achieved.

Pulp prod

damage. {Explain}

Pulping	processes
kraft	•
soda	
semi-chemical	
sulfite-NH3	
sulfite-Ca	
Chemi-themo-mechanical pulp (CTMP)	
stone groundwood (SGW)	
pressurized groundwood (PGW)	
thermo-mechanical pulping (TMP)	
refiner mechanical pulping (RMP)	
secondary fiber	
non-wood	

Non-wood material cotton bagasse kenaf other {specify}

Byproducts

batch continuous Is tall oil acidulation reactor batch or continuous?

Kraft condensates

	Kraft condensate stream
Digester systems	
Turpentine recovery systems	
Evaporator systems	
HVLC collection systems	
Combined systems	
Other systems {describe}	
37	Is condensate stream collected and treated according to subpart S?
Yes	
NU Dartially	
Pattally	
	Indicate volume reduction option being used, or other reason why condensate stream is
	not collected and controlled
NA-system does not exist at mill	
1 20	
2R 2B	
20	
	For condensates treated by steam stripping, specify the control option used
92% total HAP reduction (by weight)	For condensates treated by biological treatment, specify the control option used
32 /8 total HAP reduction (by weight)	Enocify condencate treatment method (if other than cteam strinning or high-gical
Remove 6.6 pounds/ton ODP	specify condensate treatment method (if other than steam stripping or biological treatment)
210 ppmw at the outlet of the control device	(current)
Remove 10.2 pounds/ton ODP	
330 ppmw at the outlet of the control device	
Remove prorated mass of pounds/ton ODP {specify limit}	
In series:	Please describe if multiple treatment methods used for this condensate
As backup:	
Other:	
CCA	
	CCA debit or credit generating emission point?
debit (uncontrolled)	
debit (under controlled)	
credit	
	Clean condensate alterative technology applied
NA-debit source	orean condensate anerative technology applied
stand-alone biological treatment unit	
steam stripper	
other - specify	
Blaching	
Directing	
	Is the process ECF, PCF or TCF?
ECF - elemental chlorine free	
PCF - processed chlorine free	
ICF - totally chlorine free	
	Material type
HW only	······yr*
SW only	

mixture of HW and SW secondary fiber non-wood fiber

	Stage 1 control method
	Stage 2 control method
	Stage 3 control method
NA	Stage 4 control method
scrubber {enter APCD_ID}	Stage 5 control method
other {describe}	Stage 6 control method

	Stage 1 chloroform control option(s) used to demonstrate subpart S compliance
NA (no chlorine or chlorinated compounds used in this stage)	Stage 2 chloroform control option(s) used to demonstrate subpart S compliance
NA (mechanical, non-wood, or secondary fiber mill)	Stage 3 chloroform control option(s) used to demonstrate subpart S compliance
NA (synthetic area source) Use no chlorine or hypochlorite AND meet effluent guidelines/standards	Stage 4 chloroform control option(s) used to demonstrate subpart S compliance
Use no chlorine or hypochlorite	Stage 5 chloroform control option(s) used to demonstrate subpart S compliance
Meet effluent guidelines/standards	Stage 6 chloroform control option(s) used to demonstrate subpart S compliance

NA (no chlorine or chlorinated compounds used in this stage)	Stage 1 chlorinated HAP control option used to demonstrate subpart S compliance
NA (synthetic area source)	
99% reduction (by weight) measured as total chlorinated HAP	Stage 2 chlorinated HAP control option used to demonstrate subpart S compliance
	Stage 3 chlorinated HAP control option used to demonstrate subpart S compliance
99% reduction (by weight) measured as methanol	Stage 4 chlorinated HAP control option used to demonstrate subpart S compliance
Outlet concentration < 10 ppmv measured as total chlorinated HAP	ongo
Outlet concentration < 10 ppmv measured as methanol	Stage 5 chlorinated HAP control option used to demonstrate subpart S compliance
Total outlet mass emission levels for all subject stages < 0.002 lb/ton ODP	Stage 6 chlorinated HAP control option used to demonstrate subpart S compliance

For mills that use chlorine dioxide (ClO2) bleaching, describe any process or control measures used to reduce emissions of carbon monoxide (CO) from bleaching processes.

NA - ClO2 bleaching is not performed None (no CO control measure)

Paper prod

Fourdrinier cylinder twin-wire other {specify} Type of paper machine as currently configured

bleached unbleached mixture of bleached and unbleached (please specify) Is furnish mixture bleached or unbleached?

mixture of bleached and unbleached (please specify)

coated free sheet uncoated free sheet coated groundwood uncoated groundwood tissue & sanitary Paper grade produced

specialty packaging & industrial	
kraft packaging	
linerboard	
corrugating medium	
solid bleached board	
construction paper and board	
other (specify type)	
ould (speen) (spe)	
	For unblanched pulse, has the mill taken store (e.g., installed a series proved to raise the
	volume and pulps, has the first steps (e.g., instance a steps pless) to fase the consistency of the pulp in high density storage in order to reduce emissions associated with the fluid in the unbleached pulp?
no	
ves {please explain}	
	Indicate firing method and fuel type if air drying is used
steam-heated (indirect-fired)	
direct fired (natural gas)	
direct-fired {specify fuel}	
HAP additives	
	Units for amount
gal/day	
lb/day	
lb/ton paper	
ga/year	
ID/yeai	
ww	
	Does the mill perform onsite wastewater treatment beyond operation of a clarifier for
	suspended solids removal?
Yes	
No - Mill wastewater treatment is outsourced to a POTW	
[No - Mill wastewater treatment is outsourced to a separate wastewater treatment plant owned/operated by	
[enter company name].	
Livo - Otner (predse expiditi)	
	If mill wastewater treatment is outsourced to a POTW or private entity, indicate pre-
	treatment steps occuring onsite at the mill.
Primary clarification	
Secondary clarification	
Primary and secondary clarification	
Uther: { specify }	

For kraft pulp mills outsourcing wastewater treatment, is biological treatment performed at the WWTP used to demonstrate compliance with the subpart S kraft condensate standards? Yes – Biological treatment occurring at the wastewater treatment entity (POTW or private company) is used to comply with the subpart S standards for kraft condensates. No – The mill uses a methods other than biological treatment to comply with the kraft condensate standards.

Explain how wastewater treatment system emissions are accounted for in your air permit if you answered "no" to the previous 3 questions

Air emissions associated with wastewater treatment are not addressed in the air operating permit. NA

Aerated stabilization basin (aerated surface impoundment) Activated-sludge biological treatment Anaerobic treatment Packaged system (specify e.g., UNOX system) Other (specify) General type of wastewater treatment system

Identify upstream process wastewater treatment systems that reduce wastewater treatment unit air emissions of nonchlorinated organic HAP and TRS (including H2S).

steam stripper (enter Emission Unit ID) biological treatment unit wastewater thermal oxidizer (enter Emission Unit ID) Other (specify)

Describe any upstream practices or pollution prevention measures that reduce wastewater treatment unit air emissions of chlorinated HAP.

Use only nonchlorinated bleaching compounds Use ClO2 bleaching (instead of chlorine or hypochlorite) Other (specify)

PI Emissions test data

	Pollutants tested
PM	
PM2.5-filterable	
PM2.5-cond.	
NOx	
SO2	
CO	
methanol	
THC	
chlorine	
CDD/CDF	
POM/PAH	
Speciated HAP metals	
HCI	
TRS	
	Are inlet or outlet data provided?
outlet	-

inlet inlet and outlet

How often are you required to perform testing of this emission unit for the pollutants listed? every 2 years every 5 years one-time test only as requested by the permitting authority