

OMB Control No: XXXX-XXXX  
 Expiration Date: XX/XX/XXXX

Did any of the responses (individual cells) you entered in this tab contain CBI?  
 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 [CBI](#).  
**UK = Unknown. NA = Not Applicable.** See instruction document for details on use of these terms.  
 You may find it helpful to use Excel's "freeze panes" or "split" features when viewing this spreadsheet.

Provide for all entries. Use the Emission Unit ID in the NEI data set for your mill (supplied for Part II) if the individual emission unit is listed there. If emission units are aggregated by collection system in the NEI, then you would list each emission unit separately with a new Emission Unit ID in this tab. See the survey instruction document for more information on matching Emission Unit IDs to the NEI.

Leave columns that do not apply for a given emission unit blank.

Enter the decimal value for control capture efficiency, if available (e.g., 0.90 = 90% capture).

Enter the following codes for emission units that are not emitted through a conveyance such as a collection system or stack: NV = not vented; BLDG = vented into a building; FUGITIVE = fugitive emission source

Use this column for notes or if helpful to relate equipment and process lines to your permit, the NEI, or other information

Write in a description using the common equipment types listed in Attachment 1 of the survey instruction document.

Enter "UK" if unknown, or "pre-1990" if more than 20 years old and the install date is unknown. If the emission unit was substantially upgraded, enter the year of the upgrade as "XXXX-upgrade."

Enter manufacturer ONLY for chemical recovery combustion sources (recovery furnaces, black liquor oxidizers, chemical recovery combustion units, lime kilns, black liquor oxidizers) and boilers. Enter "UK" for unknown. Enter "shop-built" for equipment designed by the mill. Enter 2009 operating hr/yr.

**Instruction:** This should match NEI Site ID used in Part II. Note that in some cases the Emission Unit ID will be the same as a Collection system ID or APCD ID.

**Survey reference:** Equipment identification

Field:	NEI Site ID	Emission Unit ID	Collection system ID (for collection systems 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 installed	Emission unit manufacturer	Emission unit operating hr/yr
<b>Example entry:</b>	99999	LK1					lime kiln	1983	Chanderpur Works	8400
	99999	GENERIC UNIT		0.85		NEI Emission Unit ID = GEN09	generic example row	UK	Wellons	8430

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Enter the exhaust flow rate from the emission unit (if known) in actual cubic feet per minute (acfm).  
 Leave blank for emission units not ducted through a conveyance (e.g., emission units not vented, vented into a building, or fugitive sources).  
 Measured flow rates from stack tests are preferred (if available). Otherwise, provide an estimate or enter "UK" for unknown.  
 Exhaust flow rate measurements may have been performed through stack testing at the emission point after multiple exhaust streams have been combined. If exhaust from the emission unit is combined with exhaust from other emission units, please indicate the emission units IDs with combined exhaust flow.  
 If the emission unit listed in this row has multiple vents, the please enter the total flow from all vents combined and note in column P "multiple vents combined". See instruction document for details.  
 If exhaust from the emission unit is combined with exhaust from other emission units, please indicate the emission units IDs in the next column with combined exhaust flow.  
 Enter the emission unit exhaust gas temperature in degrees Fahrenheit (if known).  
 Enter the emission unit exhaust gas moisture content (% H2O), if known. For example, enter "10" for 10%.  
 If the emission unit has multiple vents and the exhaust flow provided is the total from multiple combined vents, enter the "multiple vents combined" in this column.  
 Specify the location of the flow rate provided. Select from menu (or write in response).

**Instruction:**  
**Survey reference:** Emission unit exhaust parameters (if emitted through a conveyance)

Field:	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	Location of flow rate provided
<b>Example entry:</b>	45,000	290	8		control device outlet
	18,000	150	7		control device outlet

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<p>Provide year. If not known, enter approximate year (e.g., "pre-1990")</p> <p>Select from menu for recovery furnaces subject to subpart BB (straight or cross)</p> <p>[Note: You may enter the compliance option for each emission unit or for the relevant collection system if listed separately.]</p>	<p>Indicate NSPS BB TRS compliance option used to demonstrate NSPS compliance with primary method of control.</p> <p>Select yes/no</p>	<p>If black liquor gasification is used, a diagram and description of the system including any combustion controls or add-on controls used to reduce air pollutants would be helpful.</p>
<b>Instruction:</b>	Subpart MM NESHAP applicability	Black liquor gasification

Field:	Is emission unit subject to NESHAP MM?	Black liquor gasifier capacity (million lb BLS/day)
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<p><b>Example entry:</b></p> <p>1983      new      8 ppm<sub>dv</sub> @ 10% O<sub>2</sub> (lime kilns)</p>	<p>yes</p> <p>no changes required</p> <p>no</p>	<p>1.9</p>
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	no	1.9
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**Instruction:** Complete for each black liquor oxidation (BLO) system. Select from menu Select from menu Enter number Enter numeric value. Use the average from 2009 or target value. Enter numeric value (e.g., enter "45" for the average from 2009 or target value. Complete for each recovery furnace at kraft, soda, sulfite, and co-located kraft/Semichemical pulp mills. "Recovery furnaces" may also be referred to as "black liquor boilers" or "recovery boilers." If you operate an NDCE recovery furnace, indicate if it was previously a DCE recovery furnace that underwent a DCE furnace conversion (e.g., a low odor conversion). Enter year (e.g., 2000) when DCE furnace was converted to an NDCE furnace (if applicable). Enter pre-1990 if conversion was not within the last 20 years, or write in Select from menu Select yes/no/NA Enter numeric capacity value for black liquor solids (BLS) feed rate or red liquor solids (RLS) for sulfite Enter numeric value (e.g., enter "45" for 45%). Use the average from 2009 or target value. Enter % sulfur, chloride, or nitrogen if known. Use the average from 2009 or target value. Input site-specific higher heating value (HHV) of the pulping liquor, if measured. Use the average from 2009 or target value.

**Survey reference:** Black liquor oxidation systems Recovery furnaces

Field:	Emission Unit ID(s) of recovery furnace(s) downstream of BLO	Type of liquor oxidized	BLO type	No. of air oxidation stages	Liquor flow rate, gpm	Liquor solids content, %	Recovery furnace type	Was NDCE formerly a DCE (i.e., has the unit undergone a low odor conversion)?	DCE furnace conversion year (XXXX), if applicable	Type of liquor	Spent liquor solids nominal daily throughput capacity, million lb RLS/day (or million lb RLS/day for sulfite)	Liquor solids % by weight	Liquor solids sulfur % by weight	Liquor solids chloride % by weight	Liquor solids nitrogen % by weight	Liquor HHV Btu/lb dry solids
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**Example entry:**

	RF1	strong	air	1	364	49	DCE	no		black	1.9	65	4.3	0.71	5940
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<p>Enter numeric value in milligrams per liter.          Use the average from 2009 or target value.          Enter NA if TRS emissions would not be expected (e.g., for nonsulfur Semichemical pulp mills)</p>	<p>Complete Table 8 for each kraft or soda lime kiln.          Select from menu</p>	<p>Enter numeric value (i.e., 70% = 70%). Use the average from 2009 or target value.</p>	<p>Enter numeric value for kiln hot end operating temperature (F). Use the average from 2009 or target value.</p>	<p>Enter numeric value for kiln cold end operating temperature (F). Use the average from 2009 or target value.</p>	<p>Select from menu</p>	<p>Select yes/no</p>	<p>Select from menu</p>	<p>Complete for recovery furnaces, semichemical combustion units, and lime kilns.          Do not enter thermal oxidizer information in this column. Thermal oxidizers controlling Part III emission units are addressed in the Part III Controls tab.          Enter numeric value in million Btu per hour (MMBtu/hr) representing the total heat input for all fuels including spent pulping liquor.</p>	<p>Complete for lime kilns, recovery furnaces and chemical recovery combustion units that are used to incinerate NCG or SOG.          List all sources of NCG or SOG, identified by their Collection System IDs or Emission Unit IDs separated by commas, for which the emission unit serves as primary control (e.g., LVHC1, SOG, TALLOIL, ...). Many of these IDs will come from your Part I response.</p>	<p>List all sources of NCG or SOG, identified by their Collection System IDs or Emission Unit IDs separated by commas, for which the emission unit serves as backup control (e.g., LVHC2, HVLC1, ...)</p>
<b>Instruction:</b>	Lime kilns (including rotary lime kilns and fluidized bed calciners)							Fuel-fired equipment	Equipment incinerating NCG or SOG	

Field:	Type of kiln	Lime nominal daily production capacity, ton CaO/d	Lime mud percent solids, %	Kiln hot end temperature (F)	Kiln cold end temperature (F) NCG introduction method	Are SOGs combined with NCGs before being introduced into the kiln? If no, SOG introduction method	Design heat input capacity, MMBtu/hr	NCG/SOG for which the emission unit provides primary control	NCG/SOG for which the emission unit provides backup control
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**Example entry:** rotary 200 71 2000 450 with primary fuel no NA - SOG are not burned in lime kiln LVHC-1

435 STRIPPER

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Hidden columns:

Complete for fuel-fired equipment having a primary fuel type other than spent pulping liquor (e.g., complete for lime kilns).  
 Do not enter thermal oxidizer information in this column. Thermal oxidizers controlling Part II emission units are addressed in the PIIII Controls tab.  
 Enter primary fuel type.  
 Primary fuels for fuel-fired equipment (except black or red liquor)

Optional. Enter the numeric higher heating value (HHV) for non-fossil fuels corresponding to the suggested units in next column. Biomass or black liquor syngas is an example of a non-fossil fuel that could be used in lime kilns.  
 -EPA can assume default HHVs for fossil fuels, or you may opt to enter the HHV for your fossil fuel (e.g., if the fuel is relatively uncommon)  
 Specify units corresponding to the HHV. Use **Btu/gal** for liquid fuels, **MMBtu/ton** (dry basis) for solid fuels, and **Btu/MMscf** for gaseous fuels.

Optional. If biomass is the primary fuel type, specify average moisture content as **fixed** for biomass fuels only (decimal percent by weight, i.e., enter "0.2" for 20%)

Complete for fuel-fired equipment such as recovery furnaces, semichemical combustion units, and lime kilns.  
 Do not enter thermal oxidizer information in this column. Thermal oxidizers controlling Part III emission units are addressed in the PIII Controls tab.  
 Enter decimal percent (e.g., 1 = 100% or 0.9 = 90%). Approximations based on the average from 2009 or a target value will suffice.  
 Enter the numeric higher heating value (HHV) for non-fossil fuels corresponding to the suggested units in next column.  
 HHV. Use **Btu/gal** for liquid fuels, **MMBtu/ton** (dry basis) for solid fuels, and **Btu/MMscf** for gaseous fuels.  
 Select from menu or write in. You may write in more than one condition.  
 Multi-fuel fired units can select "routine use (multi-fuel fired unit)" from the menu.

Include secondary and additional fuels used routinely for multi-fuel fired equipment in these columns.  
 Supplemental or other fuels for fuel-fired equipment

**Instruction:**  
**Survey reference:**

Field:	Primary fuel type	Approximate percent of annual heat input capacity (MMBtu/yr) supplied by primary fuel	Optional: Average HHV of non-fossil primary fuels	Optional: Primary fuel HHV units	Optional: Moisture content for biomass fuel (decimal % by weight)	Supplemental fuel type 1	Approximate percent of annual heat input capacity (MMBtu/yr) supplied by supplemental fuel 1	Optional: Supplemental fuel type 1 HHV (if non-fossil)	Optional: Supplemental fuel type 1 HHV units	Conditions when supplemental fuel type 1 used
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<b>Example entry:</b>	natural gas			1020000000 Btu/MMscf		#6 residual oil		1	150000 Btu/gal	backup
	hog fuel	0.95		12.6 MMBtu/ton	0.23	natural gas		0.05		startup, backup

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Supply startup/shutdown information for equipment (including collection systems or APCDs) that appear in the Emission Unit ID column.  
 Enter approximately how long it takes for the emission unit to startup. Use decimals if less than one hour (e.g., 18 minutes = 0.3 hr).  
 Supply information for routine startup and shutdown events such as events associated with planned mill downtime. (Do not provide information for startup/shutdown events associated with control device or emission unit malfunctions).  
 "Startup" means the setting in operation of an affected source or portion of an affected source for any purpose.  
 Emission Unit Startup and Shutdown

Write in response specifying when startup ends and normal operation begins (e.g., Startup ends when the auxiliary burners switch off and material throughput begins to flow.)  
 "Shutdown" means the cessation of operation of an affected source or portion of an affected source for any purpose.

Enter approximately how long it takes for the emission unit to shutdown. Use decimals if less than one hour (e.g., 18 minutes = 0.3 hr).  
 Write in response specifying when shutdown begins and normal operation ends (e.g., Shutdown begins when material throughput ceases to flow.)

Select from menu or write in

Field:	Approximate duration of emission unit startup (hours)	Measures employed to reduce air emissions during emission unit startup (if any)	What marks the end of emission unit startup and beginning of normal operating conditions?	Approximate duration of emission unit shutdown (hours)	Measures employed to reduce air emissions during shutdown (if any)	What marks the end of normal operating conditions and beginning of emission unit shutdown?
Example entry:	24	Ensure scrubber liquid is flowing during startup once LK1 temperature reaches 200F	LK1 hot end temperature reaches 2000F	18	Continue operating scrubber until temperature in LK1 drops to 200F	Turn down gas burner to 50% flow
	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	Cease flow of liquor through injection nozzles

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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 APCDs) appearing in the Emission Unit ID column. Optional. Enter any comments you have on the data supplied.

**Instruction:**  
**Survey reference:**

**Optional:** Do you wish to recommend a standard that would apply during startup or shutdown of this emission unit? If so, please describe the event to which the standard would apply; the recommended standard (this could be an emission limitation, work practice, or operational standard) that would apply during the period; the basis for the recommended standard; why and how the standard would minimize emissions during the event; and how would compliance be determined and/or monitored. Supply as a separate attachment to your survey response if necessary. **Comments**

**Field:**

**Example entry:** Require compliance with scrubber liquid flow parameter monitoring limit, but not pressure drop parameter monitoring limit (since the pressure drop cannot be maintained without sufficient exhaust flow from the lime kiln).

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Field:	NEI Site ID	Emission Unit ID	Collection system ID (for collection systems 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 installed	Emission unit manufacturer	Emission unit operating hr/yr
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Field:	NEI Site ID	Emission Unit ID	Collection system ID (for collection systems 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 installed	Emission unit manufacturer	Emission unit operating hr/yr
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Field:	NEI Site ID	Emission Unit ID	Collection system ID (for collection systems 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 installed	Emission unit manufacturer	Emission unit operating hr/yr
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Field:	NEI Site ID	Emission Unit ID	Collection system ID (for collection systems 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 installed	Emission unit manufacturer	Emission unit operating hr/yr
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Field:	NEI Site ID	Emission Unit ID	Collection system ID (for collection systems 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 installed	Emission unit manufacturer	Emission unit operating hr/yr
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OMB Control No: XXXX-XXXX  
 Expiration Date: xx/xx/xxxx

Review Draft

Place an "X" in the box below if all permit limits were supplied under Part I

Note: If you already included all of your permit limits in Part I of the survey, then you do not need to complete this spreadsheet. Please mark the box to the right.

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

**Pulp and Paper sector permit data.**

<p><b>Instruction:</b>  <b>Survey reference:</b></p>	<p>Provide for all entries. This should match NEI Site ID used in Part II.</p> <p>Equipment identification</p>	<p>Provide for all entries. Use the Emission Unit ID in the <i>PIII Equip detail</i> 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 <i>PIII Equip detail</i> tab.</p> <p>OPTIONAL column useful for cross-checking permit data and when comparing permit to NEI.</p>	<p>Select from menu or write in</p>	<p>OPTIONAL. Complete this column to avoid restating Federal permit limits in the columns to the right.</p>	<p>Enter numeric value of permit limit coinciding with the pollutant selected.</p> <p>You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure.</p> <p>See the survey instruction document for permit limit units of interest.</p>	
<p><b>Field:</b>  <b>Example entry:</b></p>	<p><b>NEI Site ID</b>          99999          99999</p>	<p><b>Emission Unit ID or Collection System ID</b>          RF1          RF1</p>	<p><b>Identifier used in permit (e.g., emission unit ID, stack ID, etc) - optional</b>          RF01          RF01</p>	<p><b>Pollutant</b>          PM - filterable          Opacity</p>	<p><b>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</b></p>	<p><b>Numeric permit limit 1</b>          0.02          5</p>

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OMB Control No:

Expiration Date:

Review Draft

Note: If you already incl  
UK = Unknown. NA = I  
Pulp and Paper sector

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

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OMB Control No:

Expiration Date:

Review Draft

Note: If you already incl

UK = Unknown. NA = I

Pulp and Paper sector

<p><b>Instruction:</b></p> <p>Enter numeric value of permit limit coinciding with the pollutant selected.</p> <p>You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure.</p> <p>See the survey instruction document for permit limit units of interest.</p> <p>Enter units for permit limit</p>	<p>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).</p> <p>Leave blank if no averaging time is specified in your permit.</p>	<p>Enter numeric value of permit limit coinciding with the pollutant selected.</p> <p>You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure.</p> <p>See the survey instruction document for permit limit units of interest.</p> <p>Enter units for permit limit</p> <p>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).</p> <p>Leave blank if no averaging time is specified in your permit.</p>
<b>Survey reference:</b>		
<b>Field:</b>	<p><b>Numeric permit limit 3</b></p> <p><b>Units for permit limit 3 (including any applicable %O2 or %CO2 correction factors)</b></p> <p><b>Averaging time for permit limit 3 (if applicable)</b></p>	<p><b>Numeric permit limit 4</b></p> <p><b>Units for permit limit 4 (including any applicable %O2 or %CO2 correction factors)</b></p> <p><b>Averaging time for permit limit 4 (if applicable)</b></p>
<b>Example entry:</b>		

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**OMB Control No:**

**Expiration Date:**

[Review Draft](#)

Note: If you already incl

**UK = Unknown. NA = I**

**Pulp and Paper sector**

<p><b>Instruction:</b></p>	<p>Enter numeric value of permit limit coinciding with the pollutant selected.</p> <p>You <u>do not</u> have to provide every limit for pollutants with multiple limits in different units of measure.</p> <p>See the survey instruction document for permit limit units of interest.</p>	<p>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).</p> <p>Leave blank if no averaging time is specified in your permit.</p>	<p>Optional. Enter any comments you have on the data supplied.</p>
<p><b>Survey reference:</b></p>	<p>Enter units for permit limit</p>		
<p><b>Field:</b></p>	<p><b>Numeric permit limit 5</b></p>	<p><b>Units for permit limit 5 (including any applicable %O2 or %CO2 correction factors)</b></p>	<p><b>Averaging time for permit limit 5 (if applicable)</b></p> <p><b>Comments</b></p>
<p><b>Example entry:</b></p>			

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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: XXXX-XXXX  
 Expiration Date: XXXX-XXXX

**Did any of the responses (individual cells) you entered in this tab contain CBI?**  
 Yes. Please to shade the CBI containing cells red and follow the instructions in section C of the survey overview document for submitting CBI.

Complete this table for add-on air pollution controls. Questions regarding combustion controls and process changes are included elsewhere in other survey tabs.  
 UK = Unknown, NA = Not Applicable. See instruction document for details on use of these terms.  
 Complete this tab for air pollution control devices used on the Part III chemical recovery combustion sources listed in Part III Attachment 1.

**Instruction:** Provide for all entries. This Enter APCD\_ID Enter Emission Unit ID or should match NEI Site ID matching the PII Equip detail tab used in Part II. Collection system ID matching the Equip detail tab. Select from menu or write in

Enter the manufacturer of the APCD, if known. Enter "UK" if unknown. Enter "NA" for more than 20 years old and the install date is unknown. If the APCD was substantially upgraded, enter the year of the upgrade as "XXXX-XXXX".

Enter the year installed, if known. Enter "UK" if unknown or "pre-1990" if more than 20 years old and the install date is unknown. If the APCD was substantially upgraded, enter the year of the upgrade as "XXXX-XXXX".

Enter the typical pressure drop across the control device in inches of water

Enter control efficiencies, if known (e.g., enter 99 for 99%).

"Actual" control efficiency is a measured value obtained through inlet/outlet emissions testing. Leave blank if not known or not applicable.

Include control efficiency for specific HAP that you identify. This may be HAPs used as surrogates in a rule (e.g., methanol, chlorine) or other HAP.

You may attach a separate listing of HAPs and control efficiencies if this information is available for a number of compounds.

Field:	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
Example entry:		99999 ANYCONTROL	ANYUNIT	ANYTYPE	Coen	pre-1990	4	98				90	Methanol
		99999 SCRB2	LK1, LVHCL	Scrubber	Ducon	1985	6	95	92		82	50	Formaldehyde, Methanol

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OMB Control No: Expiration Date: <a href="#">Review Draft</a> Complete this table for add-on air po UK = Unknown, NA = Not Applica Complete this tab for air pollution co																					
Instruction:		Complete for thermal oxidizers or incinerators used to control Part III emission sources (such as semi-chemical liquor combustors)							Complete the sorbent injection questions for sorbents injected into the gas stream prior to collection by a fabric filter or other control device for which information is being provided. For example, complete the sorbent injection questions for a dry injection fabric filter system in the same row where you enter information for the fabric filter.				Complete for fabric filters (baghouses) if used to control any Part III emission sources.				Complete the ESP questions for dry ESPs and WESPs				
Survey reference:		Thermal oxidizers/incinerators							Sorbent injection				Fabric filters				ESPs				
Field:	Incinerator type	If RTO, number of canisters	Target firebox temperature (F)	Residence time at operating temperature (sec)	Auxiliary fuel type	Approximate auxiliary fuel use, MMBtu/hr	Heat recovery	What is the recovered heat from the incinerator exhaust used for?	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 number of fields	Number of fields used during normal operation	Specific collection area, ft <sup>2</sup> /1,000 acfm	Have fields/chambers been added to expand the ESP within the last 10 years?	Is WESP preceded by a quench chamber
Example entry:	Single-stage combustion chamber	NA	1300	1.8	natural gas	0.3	no	NA	activated carbon	Hg	100	Polyester	Shake	15	1	7	8	4	466	No	No

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OMB Control No: _____													
Expiration Date: _____													
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Complete this table for add-on air po													
UK = Unknown, NA = Not Applicable													
Complete this tab for air pollution co													
<p>Complete for all types of wet scrubbers (venturi, tray, plate, injection, quench, etc)</p> <p>Enter the numeric value for the scrubber design liquid-to-gas ratio (L/G) in gallons of liquid per 1000 acfm of gas. Use the average from 2009 or a target value.</p> <p>Enter type of alkali added (e.g., NaOH/caustic, KOH, KMNDO). Leave blank if no alkali added.</p> <p>Enter typical gallons per minute of scrubbing fluid (e.g., water) makeup added to the system. Use the average from 2009 or a target value.</p> <p>Select yes/no for scrubbers that control chemical recovery furnaces or Semichemical liquor combustion units. Leave blank for other scrubbers.</p> <p>Complete the scrubber questions and complete the additional questions below related to the packing material</p> <p>Enter water source and usage information for wet control devices such as wet scrubbers, WESP, mist eliminators, absorbers, etc.</p> <p>Do not include spent pulping liquor used in recovery furnace wet bottom ESPs here (as information for wet bottom ESPs is requested in the PII Equip detail tab).</p> <p>Enter the decimal percentage of recirculation gpm flow (e.g., 0.1 for 10%) that is not recirculated back to the control device (i.e., the blowdown percentage). Use the average from 2009 or a target value.</p> <p>Enter numeric value in gallons per minute (gpm). Use the average from 2009 or a target value.</p> <p>Select yes/no</p> <p>Enter end use or disposal method for the blowdown</p>													
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Survey reference:													
Field:													
WESP water flow, gpm	Type of alkali added, if any	Liquid-to-gas ratio (gal/1000 acfm)	Inlet pH of scrubbing liquid	Scrubbing fluid make-up rate, gpm	For recovery furnaces/combustion units: Does scrubber also serve as a direct contact evaporator?	Type of packing material	Packing material depth, ft	Scrubber/absorber cross-sectional area, ft <sup>2</sup>	Water source	Is water recirculated?	Water recirculation rate, gpm	Wastewater (blowdown) %	Wastewater (blowdown) reuse or disposal method
Example entry:		275	8	130	No	plastic packing	3	19.6	treated wastewater	Yes	200	0.1	Treated in onsite wastewater treatment plant
	Caustic	6	10	60					surface water and water from recirculation pond	Yes	350	0.35	Treated in onsite wastewater treatment plant
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Complete this table for add-on air po															
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<p>Complete the solid material questions for control devices that collect or generate solid material to be handled or disposed.</p> <p>Do not include baghouses or cyclones used solely for wood/material handling operations.</p> <p>Provide information for any solid material collected by the APCD (e.g., PM, sorbent, etc.) if it is reused.</p>			<p>Enter the amount of solid material disposed annually (if known) in cubic yards per year (cu yd/yr). Use the average from 2009 or a target value.</p>			<p>Identify any other solid waste associated with the APCD that must be replaced/discharged periodically (e.g., packing material, ceramic saddles).</p> <p>Enter the frequency in which the material must be replaced/discharged, etc.</p>			<p>Enter the amount of material that must be disposed in cubic yards (if known). Use the average from 2009 or a target value.</p>			<p>Select from list or write in. List multiple parameters for the same control device separated by commas (as shown in the example below).</p> <p>List any operating parameters not included in the previous column.</p>		<p>OPTIONAL: Supply approximate capital costs of the parameter monitoring system equipment installed within the past 10 years for this control device. Include in the equipment costs the analyzer and data acquisition system (DAS), if known.</p> <p>OPTIONAL: Enter year for parameter monitoring system costs.</p>	
Instruction:															
Survey reference:															
Solid material handling and disposal															
Parameter monitoring															
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.															
Capital costs of parameter monitoring system, \$															
Base year for parameter monitoring system capital cost (e.g., 2005)															
Field:	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 waste associated with the APCD	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)							
Example entry:	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)		22,000	1999			
								pressure drop, liquid flow rate			34500	2007			

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Supply startup/shutdown information for the equipment that appears in the APCD ID column.  
 Enter approximately how long it takes for the control device to startup. Use decimals if less than one hour (e.g., 18 minutes = 0.3 hr).  
 Supply information for routine startup and shutdown events such as events associated with planned mill downtime. (Do not provide information for startup/shutdown events associated with control device or emission unit malfunctions).  
 "Startup" means the setting in operation of an affected source or portion of an affected source for any purpose.  
**Instruction:**  
**Survey reference:**

List any control device parameter limits that cannot be met during control device startup. Certain parameters may be "instant on" while others are more transient in nature. Examples could include control device temperature that must heat up to a set point, or pressure drop that cannot be achieved due to low exhaust gas flow from the emission unit.  
 The EPA is particularly interested in emission limits or parameter limits originating from the pulp and paper NSPS or NESHAP that cannot be met during control device startup or shutdown.  
 Select from menu if the applicable emission and parameter limits are expected to be met during startup.  
 Write in response (if any).

List any control device parameter limits that cannot be met during control device shutdown. Certain parameters may be "instant off" while others are more transient in nature. Examples could include control device temperature that decreases from the set point as shutdown progresses, or pressure drop that cannot be achieved due to low exhaust gas flow from the emission unit.  
 The EPA is particularly interested in emission limits or parameter limits originating from the pulp and paper NSPS or NESHAP that cannot be met during control device startup or shutdown.  
 Select from menu if the applicable emission and parameter limits are expected to be met during shutdown.  
 Write in response specifying when shutdown begins and normal operation ends (e.g., "Shutdown begins when the burners are shut off.")

Control Device Startup and Shutdown

Field:	Approximate duration of control device startup (hours)	Explain how control device startup is integrated with (dependent upon) emission unit startup/operation	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 startup (if any)	What marks the end of control device startup and beginning of normal operating conditions?	Approximate duration of control device shutdown (hours)	Explain how control device shutdown is integrated with (dependent upon) emission unit shutdown	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?
<b>Example entry:</b>	0.4	Need airflow from emission unit of at least 10,000 acfm in order for injected carbon to properly mix and become entrained in gas stream	carbon injection rate	Ensure water is recirculated through control device throughout startup	route emission unit exhaust damper to control device and switch on carbon injection once process exhaust gas reaches 10,000 acfm	0.4	Need airflow from emission unit of at least 10,000 acfm in order for injected carbon to properly mix and become entrained in gas stream	carbon injection rate	Continue injection of carbon until process gas flow drops to 10,000 acfm; continue water recirculation unit emission unit and carbon injection is shut off	When process gas flow drops to 10,000 acfm and carbon injection is shut off
	3	Control device cannot function as designed unless an air flow rate of 29,000 acfm from the emission unit is achieved.	pressure drop	meet liquid flow parameter limit	Startup ends when the pressure drop parameter limit range is achieved	0.5	Control device cannot function as designed unless an air flow rate of 29,000 acfm from the emission unit is achieved.		Wait until LK is cooled to 200F before switching off liquid flow.	Shut off liquid flow

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<b>OMB Control No:</b>	
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<a href="#">Review Draft</a> Complete this table for add-on air po <b>UK = Unknown, NA = Not Applica</b> Complete this tab for air pollution co	
<p>OPTIONAL QUESTION: 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. <span style="float: right;">Optional. Enter any comments you have on the data supplied.</span></p>	
<b>Instruction:</b>	
<b>Survey reference:</b>	
<b>Field:</b>	<b>Comments</b>
<b>Example entry:</b>	<p>Require compliance with liquid flow parameter limit during startup and shutdown (but not carbon injection rate limit)</p> <p>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)</p>

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OMB Control No: XXXX-XXXX  
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Did any of the responses (individual cells) you entered in this tab contain CBI?  
 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.

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

<b>Instruction:</b>	Provide for all entries. This should match NEI Site ID used in Part II.	Enter Emission Unit ID routing exhaust to the PCC plant. This should match the Emission Unit ID in the <i>PIII Equip detail</i> tab.	Select yes/no	If answer to the previous question is no, please explain if exhaust does not pass through the full emission control system prior to being routed to the PCC plant.	Enter numeric value. Use the average from 2009 or a target value.	Enter decimal percent (e.g., enter "0.15" for 15%). Use the average from 2009 or a target value.	Specify	Select yes/no	Answer "yes" unless the PCC plant is included in your title V permit	Optional. Enter any comments you have on the data supplied.
<b>Survey reference:</b>										

Field:	NEI Site ID	Emission Unit ID routing exhaust to a PCC plant	Does exhaust pass through the emission unit air pollution control device(s) prior to being routed to PCC plant?	If no, explain control configuration relevant to the exhaust stream routed to the PCC plant	hr/yr exhaust routed to PCC plant	Volume percent of exhaust stream routed to PCC plant	Owner of PCC plant	Is PCC plant located on P&P mill property	Does the PCC plant have a separate air permit from the P&P mill?	Comments
<b>Example entry:</b>	99999	LK1	yes		1500	0.15	Carbonate Minerals, Inc	no	yes	

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Did any of the responses (individual cells) you entered in this tab contain CBI?  
 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.

Use this table to identify the specific emission units for which emission test reports are being submitted. EPA will extract the test data from the emission test reports.  
 UK = Unknown. NA = Not Applicable. See instruction document for details on use of these terms.  
 See Attachment 2 of the Part III survey instructions document for a list of emissions 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. Enter combustion controls used during the emission test (e.g., combustion modifications/controls specified in the *PIII Equip detail* tab). Use this column for notes or if helpful to specify the emission points tested (e.g., for equipment with multiple emission points, where only selected emission points/vents were tested). Enter year testing was conducted (i.e., the test date year). List the pollutants tested. Be very specific if the method used was not an EPA method. Specify if APCD inlet or outlet data are provided (or both).

Provide for all entries. This should match NEI Site ID used in Part II. Provide for all entries. Emission Unit IDs should match those used in other tabs such as the *PIII Equip detail* tab. Unlike in Part I, few (if any) collection systems are expected to be reported for Part III emission units. APCD IDs should match those used in other tabs such as the *PIII Equip detail* tab (unless equipment configuration has changed). Enter combustion controls used during the emission test (e.g., combustion modifications/controls specified in the *PIII Equip detail* tab). Use this column for notes or if helpful to specify the emission points tested (e.g., for equipment with multiple emission points, where only selected emission points/vents were tested). Enter year testing was conducted (i.e., the test date year). List the pollutants tested. Be very specific if the method used was not an EPA method. Specify if APCD inlet or outlet data are provided (or both).

Field:	NEI Site ID	Emission Unit ID(s)	Collection system ID(s)	APCD ID(s)	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Process testing notes (optional)	Test report year (XXXX)	Pollutants tested	Test method(s) used	Are Inlet or outlet data provided?
Example entry:		99999 DIG-1, DIG-2, EVAP 99999 LK1	LVHC-1	LK1/SCBR2 SCBR2			2006 2006 PM	methanol PM	M308 M5	inlet and outlet outlet

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Use this table to identify the specific  
 UK = Unknown; NA = Not Applicable  
 See Attachment 2 of the Part III surv

<p><b>Instruction:</b>          This question will be used in determining whether the test data remain representative of your current operations.</p>	<p>Explain any changes in equipment configuration as they relate to representativeness of the emissions test data supplied.</p>	<p>OPTIONAL: Data regarding frequency and cost of testing would help EPA more accurately estimate testing costs associated with the pulp and paper NESHAP and NSPS. OPTIONAL</p>	<p>Optional. Enter any comments you have on the data supplied.</p>
<p><b>Survey reference:</b></p>	<p><b>Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted?</b>          If yes, please explain</p>	<p><b>How often are you required to perform testing of this emission unit for the pollutants listed?</b>          Approximate cost per test, \$</p>	<p><b>Comments</b></p>
<p><b>Field:</b>  <b>Example entry:</b></p>	<p>no no</p>	<p>one-time test only annually</p>	<p>12000 6000</p>

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Field:	NEI Site ID	Emission Unit ID(s)	Collection system ID(s)	APCD_ID(s)	Combustion modifications or controls used to reduce air pollution (from combustion sources)	Process testing notes (optional)	Test report year (XXXX)	Pollutants tested	Test method(s) used	Are inlet or outlet data provided?
100										

Drop Down List	Field
<b>Frequently Used Drop Downs</b>	

**NOTE**

Yes No	<b>CBI Boxes</b>
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All tabs but Permit Limits

Yes No	Were these combustion controls added within the last 10 years? Is emission unit subject to NSPS BB? Is emission unit subject to NESHAP MM? Are SOGs combined with NCGs before being introduced into the kiln? Is this emission unit involved in a subpart MM PM bubble calculation? Heat recovery Is WESP preceded by a quench chamber Have fields/chambers been added to expand the ESP within the last 10 years? Is water recirculated? Has the configuration of the emission unit, combustion controls, collection system, or APCD changed since the test was conducted? Does exhaust pass through the emission unit air pollution control device(s) prior to being routed to PCC plant? Is PCC plant located on P&P mill property Does the PCC plant have a separate air permit from the P&P mill?
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<b>PIII Equip detail Tab</b>	
NV BLDG FUGITIVE	Configuration if not emitted through a conveyance

UK pre-1990	Year emission unit installed
----------------	------------------------------

UK shop-built	Emission unit manufacturer
------------------	----------------------------

inlet to collection system collection system outlet prior to control device, inlet to control device, control device outlet prior to atmospheric release	Location of flow rate provided
--	--------------------------------

low NOx burners quarternary air other {specify}	Combustion 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 Dry sorbent injection Carbon absorber Selective noncatalytic reduction Selective catalytic reduction Boiler (specify Emission Unit ID) Lime kiln (specify Emission Unit ID) Recovery furnace (specify Emission Unit ID) Other - specify type (and Emission Unit ID if applicable) Uncontrolled	APCD1 type APCD2 type APCD3 type APCD4 type
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Reason subject to BB
new modified reconstructed modified or reconstructed (not sure)

Specify TRS compliance option used to demonstrate NSPS subpart BB compliance (if applicable)
8 ppm <sub>dv</sub> @ 10% O <sub>2</sub> (lime kilns) 0.033 lb/ton BLS as H <sub>2</sub> S (SDT - 1986 limit) 0.0168 lb/ton BLS (SDT - 1978 limit) 5 ppm <sub>dv</sub> @ 8% O <sub>2</sub> (straight recovery furnace) 25 ppm <sub>dv</sub> @ 8% O <sub>2</sub> (cross recovery furnace) Meet permit limit more stringent than NSPS

Type of recovery furnace subject to subpart BB
straight cross

Type of liquor oxidized
strong weak

BLO type
air molecular oxygen

Recovery furnace type
DCE NDCE

Was NDCE formerly a DCE (i.e., has the unit undergone a low odor conversion)?
yes no NA

Type of liquor
black red mixture of kraft black liquor and semi hem green liquor

Type of liquid used in the ESP
Oxidized black liquor Unoxidized black liquor water weak liquor NA - wet bottom ESP not used

Wet or dry PM return system (for recovery furnace ESPs)
wet dry

For wet PM return system, specify liquid
Oxidized black liquor Unoxidized black liquor

Type of combustor
fluidized bed reactor recovery furnace smelter rotary liquor kiln pyrolysis reactor

Liquor evaporation equipment
Concentrator DCE None

Cyclone  
Cascade  
Venturi scrubber

Type of DCE

smelt  
ash

Type

SDT scrubber water  
surface water  
fresh water  
process water {specify source}  
treated wastewater  
partially treated wastewater {specify last wastewater treatment unit water passed through}  
mixture {specify sources}

Type and source of water used in tank

rotary  
fluidized bed

Type of kiln

with primary fuel  
with primary combustion air  
dedicated nozzle located near burner  
NA - NCG are not burned in lime kiln

NCG introduction method

with primary fuel  
with primary combustion air  
dedicated nozzle located near burner  
NA - SOG are not burned in lime kiln

If no, SOG introduction method

natural gas  
#2 distillate oil  
#6 residual oil  
bark  
hog fuel  
turpentine  
tall oil  
petroleum coke  
tire-derived fuel  
wastewater treatment plant residuals  
OCC rejects  
allow others

Primary fuel type

Btu/gal  
MMBtu/ton  
Btu/MMscf

Optional: Primary fuel HHV units

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

Supplemental fuel type 1  
Supplemental fuel type 2  
Supplemental fuel type 3  
Supplemental fuel type 4  
Supplemental fuel type 5  
Supplemental fuel type 6

Btu/gal  
MMBtu/ton  
Btu/MMscf

Optional: Supplemental fuel type 1 HHV units

Conditions when supplemental fuel type 1 used

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

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 control NA - applicable emission and parameter limits not expected to be exceeded during startup	Measures employed to reduce air emissions during emission unit startup (if any)
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Continue operating scrubber until temperature in LK1 drops to 200F Temperature drops below 200F	Measures employed to reduce air emissions during shutdown (if any)
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**PI Permit limits**

	Pollutant
TRS SO2 sulfuric acid mist NOx CO Pb or other HAP metals VOC THC HCl Methanol and gaseous organic HAP Opacity PM PM - filterable PM - condensable PM10 PM10 - filterable PM10 - condensable PM2.5 PM2.5 - filterable PM2.5 - condensable	
Subpart MM (P&P combustion source NESHAP) Subpart BB (Kraft NSPS) Subpart BB (Kraft NSPS) - 1978 Subpart BB (Kraft NSPS) - 1986 revision	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
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	Units for permit limit 1 (including any applicable %O2 or %CO2 correction factors) Units for permit limit 2 (including any applicable %O2 or %CO2 correction factors) Units for permit limit 3 (including any applicable %O2 or %CO2 correction factors) Units for permit limit 4 (including any applicable %O2 or %CO2 correction factors) Units for permit limit 5 (including any applicable %O2 or %CO2 correction factors) Units for permit limit 6 (including any applicable %O2 or %CO2 correction factors)
3-hour 12-hour daily test	Averaging time for permit limit 1 (if applicable) Averaging time for permit limit 2 (if applicable) Averaging time for permit limit 3 (if applicable) Averaging time for permit limit 4 (if applicable) Averaging time for permit limit 5 (if applicable)

**PIII Controls**

Type of control device



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  
Dry sorbent injection  
Carbon absorber  
Selective noncatalytic reduction  
Selective catalytic reduction  
Other - *specify type*

Incinerator type

Single-stage combustion chamber  
Two-stage combustion chamber  
Regenerative thermal oxidizer (RTO)

Auxiliary fuel type

natural gas  
propane  
fuel oil  
other {specify}

What is the recovered heat from the incinerator exhaust used for?

preheat incoming emission stream  
produce steam  
produce hot water

Sorbent type

activated carbon  
lime  
other {specify}

List pollutants the sorbent injection was installed to control

acid gases (HCl, SO<sub>2</sub>, HF)  
SO<sub>2</sub>  
Hg  
dioxins

Bag cleaning method

Shake  
Reverse air  
Pulse jet

Water source

surface water  
fresh water  
process water {specify source}  
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 mud washer(s)  
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  
PM and sorbent  
Sorbent

landfill onsite  
landfill offsite  
recycle to causticizing system  
sent to salt cake mix tank  
reuse {specify}

End use/method of disposal for solid material collected

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

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

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.

Explain how control device startup is integrated with (dependent upon) emission unit startup/operation

The applicable emission and parameter limits are expected to be met during startup

List any control device continuous emissions monitoring or operating parameter limits that cannot be met during control device startup

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

Explain how control device shutdown is integrated with (dependent upon) emission unit shutdown

**PCC**

All items were Yes/No Questions. Items were listed with frequent use

**PIII Emissions test data**

PM  
PM2.5-filterable  
PM2.5-cond.  
NOx  
SO2  
CO  
methanol  
THC  
chlorine  
CDD/CDF  
POM/PAH  
Speciated HAP metals  
HCl  
TRS

Pollutants tested

outlet  
inlet  
inlet and outlet

Are inlet or outlet data provided?

annually  
every 2 years  
every 5 years  
one-time test only

How often are you required to perform testing of this emission unit for the pollutants listed?

as requested by the permitting authority

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