















NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	CEMS Date (mm/dd/yyyy)	CEMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-hour average emission value for NOx (ppmdv corrected for %O2)	% O2 correction (by volume, dry basis)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.	OPTIONAL: 1-hour average emission value for NOx	OPTIONAL: % O2 correction (by volume, dry basis)	
			648	1/27/2009	23:00	71	Tons CaO/hr	49	10		21	lb/hr	10
			649	1/28/2009	00:00	71	Tons CaO/hr	47	10		20	lb/hr	10
			650	1/28/2009	01:00	71	Tons CaO/hr	48	10		21	lb/hr	10
			651	1/28/2009	02:00	70	Tons CaO/hr	47	10		20	lb/hr	10
			652	1/28/2009	03:00	55	Tons CaO/hr	47	10		20	lb/hr	10
			653	1/28/2009	04:00	55	Tons CaO/hr	45	10		19	lb/hr	10
			654	1/28/2009	05:00	55	Tons CaO/hr	48	10		21	lb/hr	10
			655	1/28/2009	06:00	55	Tons CaO/hr	42	10		18	lb/hr	10
			656	1/28/2009	07:00	55	Tons CaO/hr	40	10		17	lb/hr	10
			657	1/28/2009	08:00	57	Tons CaO/hr	45	10		19	lb/hr	10
			658	1/28/2009	09:00	72	Tons CaO/hr	51	10		22	lb/hr	10
			659	1/28/2009	10:00	72	Tons CaO/hr	51	10		22	lb/hr	10
			660	1/28/2009	11:00	72	Tons CaO/hr	52	10		22	lb/hr	10
			661	1/28/2009	12:00	72	Tons CaO/hr	40	10		17	lb/hr	10
			662	1/28/2009	13:00	72	Tons CaO/hr	50	10		21	lb/hr	10
			663	1/28/2009	14:00	72	Tons CaO/hr	47	10		20	lb/hr	10
			664	1/28/2009	15:00	71	Tons CaO/hr	40	10		17	lb/hr	10
			665	1/28/2009	16:00	67	Tons CaO/hr	51	10		22	lb/hr	10
			666	1/28/2009	17:00	65	Tons CaO/hr	58	10		25	lb/hr	10
			667	1/28/2009	18:00	65	Tons CaO/hr	62	10		27	lb/hr	10
			668	1/28/2009	19:00	64	Tons CaO/hr	60	10		26	lb/hr	10
			669	1/28/2009	20:00	65	Tons CaO/hr	50	10		21	lb/hr	10
			670	1/28/2009	21:00	65	Tons CaO/hr	50	10		21	lb/hr	10
			671	1/28/2009	22:00	65	Tons CaO/hr	60	10		26	lb/hr	10
			672	1/28/2009	23:00	65	Tons CaO/hr	60	10		26	lb/hr	10
			673	1/29/2009	00:00	65	Tons CaO/hr	50	10		21	lb/hr	10
			674	1/29/2009	01:00	66	Tons CaO/hr	60	10		26	lb/hr	10
			675	1/29/2009	02:00	71	Tons CaO/hr	60	10		26	lb/hr	10
			676	1/29/2009	03:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			677	1/29/2009	04:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			678	1/29/2009	05:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			679	1/29/2009	06:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			680	1/29/2009	07:00	72	Tons CaO/hr	50	10		21	lb/hr	10
			681	1/29/2009	08:00	72	Tons CaO/hr	70	10		30	lb/hr	10
			682	1/29/2009	09:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			683	1/29/2009	10:00	72	Tons CaO/hr	63	10		27	lb/hr	10
			684	1/29/2009	11:00	71	Tons CaO/hr	64	10		28	lb/hr	10
			685	1/29/2009	12:00	70	Tons CaO/hr	65	10		28	lb/hr	10
			686	1/29/2009	13:00	70	Tons CaO/hr	66	10		28	lb/hr	10
			687	1/29/2009	14:00	69	Tons CaO/hr	67	10		29	lb/hr	10
			688	1/29/2009	15:00	65	Tons CaO/hr	60	10		26	lb/hr	10
			689	1/29/2009	16:00	65	Tons CaO/hr	70	10		30	lb/hr	10
			690	1/29/2009	17:00	65	Tons CaO/hr	60	10		26	lb/hr	10
			691	1/29/2009	18:00	65	Tons CaO/hr	70	10		30	lb/hr	10
			692	1/29/2009	19:00	65	Tons CaO/hr	63	10		27	lb/hr	10
			693	1/29/2009	20:00	65	Tons CaO/hr	64	10		28	lb/hr	10
			694	1/29/2009	21:00	65	Tons CaO/hr	65	10		28	lb/hr	10
			695	1/29/2009	22:00	65	Tons CaO/hr	66	10		28	lb/hr	10
			696	1/29/2009	23:00	65	Tons CaO/hr	67	10		29	lb/hr	10
			697	1/30/2009	00:00	60	Tons CaO/hr	70	10		30	lb/hr	10
			698	1/30/2009	01:00	55	Tons CaO/hr	63	10		27	lb/hr	10
			699	1/30/2009	02:00	55	Tons CaO/hr	64	10		28	lb/hr	10
			700	1/30/2009	03:00	55	Tons CaO/hr	65	10		28	lb/hr	10
			701	1/30/2009	04:00	55	Tons CaO/hr	66	10		28	lb/hr	10
			702	1/30/2009	05:00	55	Tons CaO/hr	67	10		29	lb/hr	10
			703	1/30/2009	06:00	55	Tons CaO/hr	70	10		30	lb/hr	10
			704	1/30/2009	07:00	69	Tons CaO/hr	80	10	Malfunction	34	lb/hr	10
			705	1/30/2009	08:00	72	Tons CaO/hr	69	10	Malfunction	30	lb/hr	10
			706	1/30/2009	09:00	72	Tons CaO/hr	65	10	Malfunction	28	lb/hr	10
			707	1/30/2009	10:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			708	1/30/2009	11:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			709	1/30/2009	12:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			710	1/30/2009	13:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			711	1/30/2009	14:00	72	Tons CaO/hr	63	10		27	lb/hr	10
			712	1/30/2009	15:00	72	Tons CaO/hr	64	10		28	lb/hr	10
			713	1/30/2009	16:00	72	Tons CaO/hr	65	10		28	lb/hr	10
			714	1/30/2009	17:00	71	Tons CaO/hr	66	10		28	lb/hr	10
			715	1/30/2009	18:00	72	Tons CaO/hr	67	10		29	lb/hr	10
			716	1/30/2009	19:00	72	Tons CaO/hr	65	10		28	lb/hr	10
			717	1/30/2009	20:00	72	Tons CaO/hr	60	10		26	lb/hr	10
			718	1/30/2009	21:00	72	Tons CaO/hr	71	10		31	lb/hr	10
			719	1/30/2009	22:00	72	Tons CaO/hr	75	10		32	lb/hr	10
			720	1/30/2009	23:00	72	Tons CaO/hr	73	10		31	lb/hr	10



**Review Draft**

OMB Control No: xxx-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.**

Worksheet Title: TRS 12-Hour CEMS Data

Who should complete this spreadsheet? Facilities with digester systems, brown stock washer systems, multiple effect evaporator systems, condensate stripper systems, recovery furnaces, smelt dissolving tanks, and/or lime kilns, subject to the TRS and O2 monitoring requirements in NSPS Subpart BB (or another standard).

**Total Reduced Sulfur (TRS) and Oxygen (O2) Continuous Emissions Monitoring System (CEMS) Data**

<p><b>Instruction:</b></p> <p>Provide for all entries. This should match the NEI Site ID used in all parts of your survey response.</p> <p>Provide for all entries. This ID should match the ID provided in the PIII Equip detail tab.</p> <p>Enter more than 1 APCD if needed (e.g., ESP1/WS1). The ID(s) you specify should match other APCD_ID(s) provided in other parts of your survey response.</p>	<p>See the instruction document if production data are not available in this form.</p> <p>Please enter concentration (ppmdv) corrected for %O2 as required by subpart BB (8% O2 for recovery furnaces; 10% O2 for other equipment for which data are requested).</p> <p>The % O2 correction is by volume (dry basis) (e.g. 8% or 10%).</p> <p>If no, leave blank. If yes, enter "startup," "shutdown," or "malfunction."</p>				<p>OPTIONAL: Please enter CEMS data in alternative units of measure that you specify, corrected for %O2 if needed.</p>				
<p><b>Field:</b></p> <p>NEI Site ID</p> <p>Emission Unit ID (or collection system ID)</p> <p>APCD_ID</p>	<p>12-hour period</p>	<p>CEMS Date (mm/dd/yyyy)</p>	<p>Average Production Rate (value)</p>	<p>Average Production Rate (units)</p>	<p>12-hour average emission value for TRS (ppmdv corrected for %O2)</p>	<p>% O2 correction (by volume, dry basis)</p>	<p>Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.</p>	<p>OPTIONAL: 12-hour average emission value for TRS</p>	<p>Specify Units:</p> <p>OPTIONAL: % O2 correction (by volume, dry basis)</p>
<p>TRS CEM 12-Hour Average Emission Data Points From CY2009, 1/1/2009 - 12/31/2009</p>									
<p>Highest single 12-hour average TRS concentration in CY2009 (under normal operating conditions)</p>									
<p>Highest single 12-hour average TRS concentration in CY2009 (under malfunction)</p>									
<p>Highest single 12-hour average TRS concentration in CY2009 (under conditions of startup or shutdown)</p>									
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**Review Draft**  
**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.**

**Worksheet Title:** TRS Hourly CEMS Data

**Who should complete this spreadsheet?** Facilities with digester systems, brown stock washer systems, multiple effect evaporator systems, condensate stripper systems, recovery furnaces, smelt dissolving tanks, and/or lime kilns, subject to the TRS and O2 monitoring requirements in NSPS Subpart BB (or another standard).

**Total Reduced Sulfur (TRS) and Oxygen (O2) Continuous Emissions Monitoring System (CEMS) Data**

<p><b>Instruction:</b> Provide for all entries. This should match the NEI Site ID used in all parts of your survey response.</p> <p>Provide for all entries. This ID should match the ID provided in the PIII Equip detail tab.</p> <p>Enter more than 1 APCD if needed (e.g., ESP1/WS1). The ID(s) you specify should match other APCD_ID(s) provided in other parts of your survey response.</p>								<p>Please enter concentration (ppmdv) corrected for %O2 as required by subpart BB (8% O2 for recovery furnaces; 10% O2 for other equipment for which data are requested).</p> <p>The % O2 correction is by volume (dry basis) (e.g, 8% or 10%).</p> <p>If no, leave blank. If yes, enter "startup," "shutdown," or "malfunction."</p>	<p>OPTIONAL: Please enter CEMS data in alternative units of measure that you specify, corrected for %O2 if needed.</p>				
<p><b>Field:</b></p>	<p>NEI Site ID</p>	<p>Emission Unit ID (or collection system ID)</p>	<p>APCD_ID</p>	<p>Hour</p>	<p>CEMS Date (mm/dd/yyyy)</p>	<p>CEMS Hour (24-hour clock) (hh:mm)</p>	<p>Hourly Production Rate (value)</p>	<p>Hourly Production Rate (units)</p>	<p>1-hour average emission value for TRS (ppmdv corrected for %O2)</p>	<p>% O2 correction (by volume, dry basis)</p>	<p>Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.</p>	<p>OPTIONAL: 1-hour average emission value for TRS</p>	<p>OPTIONAL: % O2 correction (by volume, dry basis)</p>
				<p>TRS CEM Hourly Emission Data Points From CY2009, 1/1/2009 - 12/31/2009</p>									
				<p>Highest single 1-hour average TRS concentration in CY2009 (under normal operating conditions)</p>									
				<p>Highest single 1-hour average TRS concentration in CY2009 (under malfunction)</p>									
				<p>Highest single 1-hour average TRS concentration in CY2009 (under conditions of startup or shutdown)</p>									
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NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	CEMS Date (mm/dd/yyyy)	CEMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-hour average emission value for TRS (ppmdv corrected for %O2)	% O2 correction (by volume, dry basis)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.	OPTIONAL: 1-hour average emission value for TRS	OPTIONAL: % O2 correction (by volume, dry basis)
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NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	CEMS Date (mm/dd/yyyy)	CEMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-hour average emission value for TRS (ppmdv corrected for %O2)	% O2 correction (by volume, dry basis)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.	OPTIONAL: 1-hour average emission value for TRS	OPTIONAL: % O2 correction (by volume, dry basis)
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NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	CEMS Date (mm/dd/yyyy)	CEMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-hour average emission value for TRS (ppmvd corrected for %O2)	% O2 correction (by volume, dry basis)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.	OPTIONAL: 1-hour average emission value for TRS	OPTIONAL: % O2 correction (by volume, dry basis)
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NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	CEMS Date (mm/dd/yyyy)	CEMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-hour average emission value for TRS (ppmdv corrected for %O2)	% O2 correction (by volume, dry basis)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.	OPTIONAL: 1-hour average emission value for TRS	OPTIONAL: % O2 correction (by volume, dry basis)
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NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	CEMS Date (mm/dd/yyyy)	CEMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-hour average emission value for TRS (ppmdv corrected for %O2)	% O2 correction (by volume, dry basis)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.	OPTIONAL: 1-hour average emission value for TRS	OPTIONAL: % O2 correction (by volume, dry basis)
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**Review Draft**

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.**

Worksheet Title: Opacity COMS Data

**Who should complete this spreadsheet?** Facilities who have installed and operate a COMS to measure opacity to comply with the recovery furnace opacity requirement specified in §60.282(a)(1)(ii) [NSPS Subpart BB]. Facilities with a kraft or soda recovery furnace or lime kiln equipped with an ESP, who have installed and operate a COMS to measure opacity to comply with the opacity monitoring requirements of §63.864(d)(3) and (4) [NESHAP Subpart MM]. Facilities who have installed and operate a COMS for any other reason (e.g., Title V or state operating permit requirement, etc.). You do not need to provide COMS data for power boilers.

**Opacity Continuous Opacity Monitoring System (COMS) Data**

Instruction:	Provide for all entries. This should match the NEI Site ID used in all parts of your survey response.	Provide for all entries. This ID should match the ID provided in the PIII Equip detail tab.	Enter more than 1 APCD if needed (e.g., ESP1/WS1). The ID(s) you specify should match other APCD_ID(s) provided in other parts of your survey response.	See the instruction document if production data are not available in this form.	Please enter the 6-minute average opacity values for each hour (%).												OPTIONAL. Please enter the hourly average opacity for the hour (%) if this is a parameter calculated for your source.	If no, leave blank. If yes, enter "startup," "shutdown," or "malfunction."				
					6-Minute Average Opacity Values																	
					1-6 (%)	7-12 (%)	13-18 (%)	19-24 (%)	25-30 (%)	31-36 (%)	37-42 (%)	43-48 (%)	49-54 (%)	55-60 (%)	Hourly Average (%)	Highest 6-min average (%)			Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.			
Field:	NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	COMS Date (mm/dd/yyyy)	COMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)														
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NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	COMS Date (mm/dd/yyyy)	COMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-6 (%)	7-12 (%)	13-18 (%)	19-24 (%)	25-30 (%)	31-36 (%)	37-42 (%)	43-48 (%)	49-54 (%)	55-60 (%)	Hourly Average (%)	Highest 6-min average (%)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.
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NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	COMS Date (mm/dd/yyyy)	COMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-6 (%)	7-12 (%)	13-18 (%)	19-24 (%)	25-30 (%)	31-36 (%)	37-42 (%)	43-48 (%)	49-54 (%)	55-60 (%)	Hourly Average (%)	Highest 6-min average (%)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.
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**Review Draft**

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.**

Worksheet Pollutant:

**Who should complete this spreadsheet?** Facilities who have installed and operate a CEMS to measure emissions. You do not need to provide CEMS data for power boilers unless the boiler has a CEMS installed to show compliance with a NESHAP subpart S or NSPS subpart BB emission limit.

**Continuous Emissions Monitoring System (CEMS) Data**

<p><b>Instruction:</b> Provide for all entries. This should match the NEI Site ID used in all parts of your survey response.</p> <p>Provide for all entries. This ID should match the ID provided in the PIII Equip detail tab.</p> <p>Enter more than 1 APCD if needed (e.g., ESP1/WS1). The ID(s) you specify should match other APCD ID(s) provided in other parts of your survey response.</p>	<p>CEM Hourly Emission Data Points From CY2009, 1/1/2009 - 12/31/2009</p>				<p>OPTIONAL: Please enter CEMS data in alternative units of measure that you specify, corrected for %O2 if needed.</p>					
<p><b>Field:</b></p>	<p>Hour</p>	<p>CEMS Date (mm/dd/yyyy)</p>	<p>CEMS Hour (24-hour clock) (hh:mm)</p>	<p>Hourly Production Rate (value)</p>	<p>Hourly Production Rate (units)</p>	<p>1-hour average emission value for (ppmdv corrected for %O2)</p>	<p>% O2 correction (by volume, dry basis)</p>	<p>Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.</p>	<p>OPTIONAL: 1-hour average emission value for</p>	<p>OPTIONAL: % O2 correction (by volume, dry basis)</p>
	<p>Highest single 1-hour average concentration in CY2009 (under normal operating conditions)</p>								<p>Specify Units:</p>	
	<p>Highest single 1-hour average concentration in CY2009 (under malfunction)</p>									
	<p>Highest single 1-hour average concentration in CY2009 (under conditions of startup or shutdown)</p>									
	<p>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 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59</p>									

NEI Site ID	Emission Unit ID (or collection system ID)	APCD_ID	Hour	CEMS Date (mm/dd/yyyy)	CEMS Hour (24-hour clock) (hh:mm)	Hourly Production Rate (value)	Hourly Production Rate (units)	1-hour average emission value for (ppmdv corrected for %O2)	% O2 correction (by volume, dry basis)	Was this data average affected by a condition of startup, shutdown, or malfunction? If yes, please specify.	OPTIONAL: 1-hour average emission value for	OPTIONAL: % O2 correction (by volume, dry basis)
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**Review Draft**

**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.**

Completion of this table is OPTIONAL.  
 Complete the table below for CEMS/COMS installed within approximately the last 10 years.  
 If any responses to the following questions are not known, please indicate UK (unknown) or NA (not available).  
 Follow instructions in section D5 of the survey overview document to populate this table

Instruction: Survey overview reference:	Provide for all entries. This should match NEI Site ID used in other portions of your survey response.	Enter Emission Unit ID(s) monitored by the CEMS/COMS	Enter APCD_ID(s) monitored by the CEMS/COMS. Enter more than 1 APCD if needed (e.g., ESP1/WS1)	OPTIONAL: Please enter the capital costs for CEMS equipment installed within the past 10 years. Include in the equipment costs the pollutant analyzer/monitor, PLC, DAS, sampling system, and environmentally controlled shelter. Provide costs for each component of the CEMS separately if possible. Otherwise, provide the total cost for the CEMS.	Enter pollutants monitored by the CEMS/COMS for which costs are provided.	Enter the total capital cost of equipment (including the pollutant analyzer/monitor, PLC, DAS, sampling system, and environmentally controlled shelter).	Provide costs for each component of the CEMS separately if known.					
Field:	NEI Site ID	Emission Unit ID (or collection system ID)	APCD ID	Base year for capital costs provided (e.g., 2005)	Pollutants monitored by the CEMS/COMS	Total capital cost, \$	Analyzer or monitor cost, \$	Programable logic controller (PLC), \$	Data acquisition system (DAS), \$	Sampling system, \$	Environmentally controlled shelter, \$	
Example entry:		99999 RF1 99999 LVHC system	ESP1 LK-1		2001 opacity 2004 TRS	12000 17500	UK	7000 UK	1200 UK	1300 UK	1000 UK	1500