

US EPA ARCHIVE DOCUMENT

Data Summary: Solid Fuel Boilers, Semi Volatile Metals

	1	2	3	4	5	6	7	8	13	15	16	17	18	19
2	Source ID	Cond ID	Facility Information		Combustor Information			APCS	Hazardous	Munitions	Chemical	Mixed	Comm	Gov't
3	Number	Number	Facility Name	City	Combustor	Combustor	Combustor	Detailed	Wastes	Popping	Weapons	Radioactive	vs On-site	
4					Category	Class	Type	Acronym		Furnace	Demil	Waste		
5														
6	719	719C10	Eastman Chemicals Co. - Tennessee	E Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No
7	908	908C1	Union Carbide Corporation	South Charleston	Coal boiler	Coal-fired boiler	Pulverized	ESP	Liq	No	No	No	OS	No
8	1009	1009C2	Eastman Chemicals Co. - Arkansas Ea	Batesville	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No
9	1011	1011C1	Eastman Chemicals Co. - Tennessee	E Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Sludge	No	No	No	OS	No
10	1012	1012C1	Eastman Chemicals Co. - Tennessee	E Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Biosludge	No	No	No	OS	No
11	1009A	1009C2	Eastman Chemicals Co. - Arkansas Ea	Batesville	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No
12	1011A	1011C1	Eastman Chemicals Co. - Tennessee	E Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No
13	1011B	1011C1	Eastman Chemicals Co. - Tennessee	E Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No
14	1012A	1012C1	Eastman Chemicals Co. - Tennessee	E Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No
15	719A	719C10	Eastman Chemicals Co. - Tennessee	E Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No

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	2	20	21		22	23	25	26	29	30	31	32			33	34	35	36	37	38	55	56	57	58	59	60
2	Cond ID	Condition Information			Spiking		Tier		SB	SVM Emissions			SVM Stack Emission (ug/dscm) - ND in %													
3	Number	Cond	Cond Description	Pb	Cd	Pb	Cd	Run	Camp	Rating	Rating Comments	R1	R2	R3	R SB	Cond Avg	No SB									
4	Dates								No	No		ND	ND	ND	ND	ND	ND	ND								
5																										
6	719C10	6/1/1998 CoC; max feedrates		Y	Y			3	3	R3	1	CT	2 runs only				156.2						92.5	124.3		156.2
7	908C1	5/1/1998 CoC, max haz waste feed rate, r		Y	Y			1	3	R3	1	NA	Pb Tier I, not in stack gas, Cd only in stack gas	2.4	2.1							2.8	2.2		2.2	
8	1009C2	4/1/1999 Trial burn, risk burn; max conditi		Y				1	1	No	1	CT	Spiked Pb; made Pb and Cd stack gas; Tier I for	162.7	0.4	168.4		182.9						171.3	171.3	
9	1011C1	2/1/1998 CoC; max feedrates		Y	Y			3	3	R3	1	CT		151.4	163.9							174.0	163.1		157.6	
10	1012C1	6/1/1997 CoC; max feedrates		Y	Y			3	3	R3	1	CT		64.6	59.0							83.7	69.1		62.0	
11	1009C2	4/1/1999 Trial burn, risk burn; max conditi		Y				1	1	No	1	NA	Spiked Pb; made Pb and Cd stack gas; Tier I for	162.7	0.4	168.4		182.9						171.3	171.3	
12	1011C1	2/1/1998 CoC; max feedrates		Y	Y			3	3	R3	1	NA	Data in lieu	151.4	163.9							174.0	163.1		157.6	
13	1011C1	2/1/1998 CoC; max feedrates		Y	Y			3	3	R3	1	NA	Data in lieu	151.4	163.9							174.0	163.1		157.6	
14	1012C1	6/1/1997 CoC; max feedrates		Y	Y			3	3	R3	1	NA	Data in lieu	64.6	59.0							83.7	69.1		62.0	
15	719C10	6/1/1998 CoC; max feedrates		Y	Y			3	3	R3	1	NA	2 runs only, data in lieu				156.2					92.5	124.3		156.2	

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	2	61	62	63	64	65	66	67	68	69	80	81	82	83	84	85	86	87	88	89	90	91	101	103	104	105	106	107
2	Cond ID	SVM SRE			SVM SRE (%)							SVM SRE Used for Evaluation Purposes (%)																
3	Number	Campaign	Rating	Comments	R1	R2	R3	R SB	Cond Avg	No SB	R1	R2	R3	R SB	Cond Avg	No SB												
4		Number								Cond Avg						Cond Avg												
5																												
6	719C10	1	CT		>	>	91.597	>	95.338 >	93.528 >	91.597	>	91.597	>	95.338 >	93.528 >	91.597											
7	908C1	1	NA	Cd only in stack gas	>	99.720 >	99.683	>	99.591 >	99.699 >	99.702 >	99.720 >	99.683	>	99.591 >	99.699 >	99.702											
8	1009C2	1	CT		>	98.335 >	98.338	98.194	>	98.288 >	98.288	98.335 >	98.338	98.194	>	98.288 >	98.288											
9	1011C1	1	CT		>	96.094 >	95.186	>	95.108 >	95.482 >	95.640 >	96.094 >	95.186	>	95.108 >	95.482 >	95.640											
10	1012C1	1	CT		>	98.503	98.816	>	98.975	98.813	98.660	98.503	98.816	98.975	98.813	98.660												
11	1009C2	1	NA	Data in lieu	>	98.335 >	98.338	98.194	>	98.288 >	98.288	98.335 >	98.338	98.194	>	98.288 >	98.288											
12	1011C1	1	NA	Data in lieu	>	96.094 >	95.186	>	95.108 >	95.482 >	95.640 >	96.094 >	95.186	>	95.108 >	95.482 >	95.640											
13	1011C1	1	NA	Data in lieu	>	96.094 >	95.186	>	95.108 >	95.482 >	95.640 >	96.094 >	95.186	>	95.108 >	95.482 >	95.640											
14	1012C1	1	NA	Data in lieu	>	98.503	98.816	>	98.975	98.813	98.660	98.503	98.816	98.975	98.813	98.660												
15	719C10	1	NA	Data in lieu	>	>	91.597	>	95.338 >	93.528 >	91.597	>	91.597	>	95.338 >	93.528 >	91.597											

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	2	108	109	111	113	114	115	116	117	118	119	136	137	138	139	140	141	142	143	144	145	162	163	164	165
2	Cond ID	SVM Feedrate, Cond Avg (ug/dscm) - ND in %				SVM Total Feedrate (ug/dscm) - By Run										SVM HW + Spike Feedrate (ug/dscm) - By Run									
3	Number	HW	Spike	Coal	Total	ND	R1	ND	R2	ND	R3	R SB	ND	Cond Avg	ND	R1	ND	R2	ND	R3	R SB	ND	Cond Avg		
4																									
5																									
6	719C10	601	1,261	129	1,990	7	1,927	7	2,054					7	1,990	0.5			1,922			1	1,801		1,862
7	908C1	85	176	575	836	12	955	13	776			13	778	13	836	33	279	33	252			32	251		261
8	1009C2	7	9,576	426	10,008		9,767		10,135		10,127				10,008		9,347		9,705		9,698				9,582
9	1011C1	719	2,892	157	3,769	4	4,046	4	3,546			4	3,714	4	3,769		3,874		3,404					3,557	3,612
10	1012C1	3,057	2,576	191	5,824		4,318		4,985				8,168		5,824		4,141		4,785					7,973	5,633
11	1009C2	7	9,576	426	10,008		9,767		10,135		10,127				10,008		9,347		9,705		9,698				9,582
12	1011C1	719	2,892	157	3,769	4	4,046	4	3,546			4	3,714	4	3,769		3,874		3,404					3,557	3,612
13	1011C1	719	2,892	157	3,769	4	4,046	4	3,546			4	3,714	4	3,769		3,874		3,404					3,557	3,612
14	1012C1	3,057	2,576	191	5,824		4,318		4,985				8,168		5,824		4,141		4,785					7,973	5,633
15	719C10	601	1,261	129	1,990	7	1,927	7	2,054					7	1,990	0.5		1	1,922				1,801		1,862

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	2	166	167	169	170	171	172	173	174	175	176	177	178	179	187	188	189	190	191	192	193	194	195	200	203	204	205	
2	Cond ID	Thermal Feedrate MMBtu/hr Cond Avg				Thermal Emiss Rating			SVM HW Thermal Emiss (lb/10 ¹² Btu)					SVM in HW (lb/10 ⁹ Btu)														
3	Number					Camp No	Thermal Rating	Comment	R1	R2	R3	R SB	Cond Avg	R1	R2	R3	R SB	Cond Avg										
4		HW	Coal	Total	Total Est																							
5																												
6	719C10	74.8	334.1	408.0	489.3	1	CT		1,012.5	449.1			693.6	0.5	11.6		9.3										10.3	
7	908C1	25.4	250.3	275.7	305.9	1	NA	Cd only, Pb Tier I	30.7	32.4			32.5	32.6	2.5	32.6	2.6							2.8	32.6			2.6
8	1009C2	31.2	62.3	93.4	92.8	1	CT		420.6	0.4	400.8	434.5		418.8		25.3	32.6	24.1				24.1					24.5	
9	1011C1	10.7	171.7	182.4	191.1	1	CT		2,088.0		2,852.8			2,570.0		2,501.5		53.5								52.5	55.4	
10	1012C1	19.2	224.9	244.1	249.2	1	CT		730.8		591.2			868.2		729.0		48.8								84.7	61.4	
11	1009C2	31.2	62.3	93.4	92.8	1	NA	Data in lieu	420.6	0.4	400.8	434.5		418.8		25.3		24.1				24.1					24.5	
12	1011C1	10.7	171.7	182.4	191.1	1	NA	Data in lieu	2,088.0		2,852.8			2,570.0		2,501.5		53.5								52.5	55.4	
13	1011C1	10.7	171.7	182.4	191.1	1	NA	Data in lieu	2,088.0		2,852.8			2,570.0		2,501.5		53.5								52.5	55.4	
14	1012C1	19.2	224.9	244.1	249.2	1	NA	Data in lieu	730.8		591.2			868.2		729.0		48.8								84.7	61.4	
15	719C10	74.8	334.1	408.0	489.3	1	NA	Data in lieu	1,012.5		449.1			693.6	0.5	11.6	0.5	9.3								0.5	10.3	