

US EPA ARCHIVE DOCUMENT

Data Summary: Solid Fuel Boilers, Total Chlorine

	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	1009	1009C2	Eastman Chemicals Co. - Arkansas Eastman Div	Batesville	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No
7	1009A	1009C2	Eastman Chemicals Co. - Arkansas Eastman Div	Batesville	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No
8	1014	1014C10	Celanese	Pampa	Coal boiler	Coal-fired boiler	Pulverized	FF	Liq	No	No	No	OS	No
9	1011	1011C1	Eastman Chemicals Co. - Tennessee Eastman Div	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Sludge	No	No	No	OS	No
10	1011A	1011C1	Eastman Chemicals Co. - Tennessee Eastman Div	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No
11	1011B	1011C1	Eastman Chemicals Co. - Tennessee Eastman Div	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No
12	1012	1012C1	Eastman Chemicals Co. - Tennessee Eastman Div	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Biosludge	No	No	No	OS	No
13	1012A	1012C1	Eastman Chemicals Co. - Tennessee Eastman Div	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No
14	1013	1013C10	Celanese	Pampa	Coal boiler	Coal-fired boiler	Pulverized	FF	Liq	No	No	No	OS	No
15	719	719C10	Eastman Chemicals Co. - Tennessee Eastman Div	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No
16	719A	719C10	Eastman Chemicals Co. - Tennessee Eastman Div	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No
17	908	908C1	Union Carbide Corporation	South Charleston	Coal boiler	Coal-fired boiler	Pulverized	ESP	Liq	No	No	No	OS	No

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	2	20	21	22	25	29	30	31	32	33	34	35	36	37	38	55	56	57	58	59	60	
2	Cond ID	Condition Information			CI	SB	CI Emissions				CI Stack Emission (ppmv) - ND in %											
3	Number	Cond	Cond Description	Spiking	Tier	Run	Camp	Rating	Rating Comments	R1	R2	R3	R SB	Cond Avg	No SB							
4		Dates				Number	Number			ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Cond Avg	
5																						
6	1009C2	4/1/1999	Trial burn, risk burn; max conditions for fex L			3 No	1	CT	no reported spiking, but Tier III		581.7		765.0		747.8						698.1	698.1
7	1009C2	4/1/1999	Trial burn, risk burn; max conditions for fex L			3 No	1	NA	no reported spiking, but Tier III, data in lieu		581.7		765.0		747.8						698.1	698.1
8	1014C10	9/1/1998	CoC; max waste feed rate	UL		1 R3	1	N	Tier I for chlorine		1.2		1.2				1.1			1.1	1.1	
9	1011C1	2/1/1998	CoC; max feedrates	Y		3 R3	1	CT			181.3		164.4				156.5			167.4	172.8	
10	1011C1	2/1/1998	CoC; max feedrates	Y		3 R3	1	NA	data in lieu		181.3		164.4				156.5			167.4	172.8	
11	1011C1	2/1/1998	CoC; max feedrates	Y		3 R3	1	NA	data in lieu		181.3		164.4				156.5			167.4	172.8	
12	1012C1	6/1/1997	CoC; max feedrates	L		3 R3	1	CT	no reported chlorine spiking, but Tier III		55.8		55.0				35.5			48.8	55.4	
13	1012C1	6/1/1997	CoC; max feedrates	L		3 R3	1	NA	no reported chlorine spiking, but Tier III, data in lieu		55.8		55.0				35.5			48.8	55.4	
14	1013C10	9/1/1998	CoC; max waste feed rate	UL		1 R3	1	N	Tier I for chlorine		1.2		1.1				1.7			1.3	1.1	
15	719C10	6/1/1998	CoC; max feedrates	Y		3 R3	1	CT	R1 not reported; sample train leak check failure				85.2				142.4			113.8	85.2	
16	719C10	6/1/1998	CoC; max feedrates	Y		3 R3	1	NA	R1 not reported; sample train leak check failure, data in lieu				85.2				142.4			113.8	85.2	
17	908C1	5/1/1998	CoC, max haz waste feed rate, max load	Y		3 R3	1	CT			171.2		180.0				167.9			172.4	175.6	

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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	102	103	104	105	106	107	
2	Cond ID	CI SRE			CI SRE (%)											CI SRE Used for Ranking Purposes (%)													
3	Number	Campaign	Rating	Comments	R1	R2	R3	R SB	Cond Avg	No SB			R1	R2	R3	R SB	Cond Avg	No SB			R1	R2	R3	R SB	Cond Avg	No SB			
4		Number								Cond Avg																			
5																													
6	1009C2	1	NA	CI not controlled		4	-17	-20		-11	-11	NA	NA	NA											NA	NA			
7	1009C2	1	NA	CI not controlled		4	-17	-20		-11	-11	NA	NA	NA											NA	NA			
8	1014C10	1	NA	CI not controlled	>	-84						>	-84	>	0	NA	NA								NA	NA			
9	1011C1	1	NA	CI not controlled		-29	-35			-19	-28		-32	NA	NA								NA	NA	NA	NA			
10	1011C1	1	NA	CI not controlled		-29	-35			-19	-28		-32	NA	NA								NA	NA	NA	NA			
11	1011C1	1	NA	CI not controlled		-29	-35			-19	-28		-32	NA	NA								NA	NA	NA	NA			
12	1012C1	1	NA	CI not controlled		44	50			64	53		47	NA	NA								NA	NA	NA	NA			
13	1012C1	1	NA	CI not controlled, data in lieu		44	50			64	53		47	NA	NA								NA	NA	NA	NA			
14	1013C10																												
15	719C10	1	NA	CI not controlled		16	-28				-7		-6	NA	NA										NA	NA			
16	719C10	1	NA	CI not controlled, data in lieu		16	-28				-7		-6	NA	NA										NA	NA			
17	908C1	1	NA	CI not controlled		2	-16				-12		-8	NA	NA								NA	NA	NA	NA			

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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	166	167	169	170
2	Cond ID	Cl Feedrate, Cond Avg (ug/dscm)				Chlorine Total Feedrate (ug/dscm) - By Runs										Chlorine Hazardous Waste + Spike Feedrate MTEC (ug/dscm)							Thermal Feed Cond Avg (MMBtu/h)						
3	Number	HW	Spike	Coal	Total	R1	R2	R3	R SB	Cond Avg	R1	R2	R3	R SB	Cond Avg	HW	Coal	Total	Est Tot										
4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5																													
6	1009C2	937,099	0	13,574	950,672	913,987	991,930	947,626		950,672	904,453	979,222	929,172		937,099	31.2	62.3	93.4	92.8										
7	1009C2	937,099	0	13,574	950,672	913,987	991,930	947,626		950,672	904,453	979,222	929,172		937,099	31.2	62.3	93.4	92.8										
8	1014C10	467	0	2,241	2,708	70	3,180	100	2,472		100	2,472	83	2,708	964	100	221		100	217	31	467	181.1	719.5	900.6	919.1			
9	1011C1	11,121	164,253	23,509	198,884	212,824	185,227		198,600	198,884	188,132	163,128		174,864	175,375	10.7	171.7	182.4	191.1										
10	1011C1	11,121	164,253	23,509	198,884	212,824	185,227		198,600	198,884	188,132	163,128		174,864	175,375	10.7	171.7	182.4	191.1										
11	1011C1	11,121	164,253	23,509	198,884	212,824	185,227		198,600	198,884	188,132	163,128		174,864	175,375	10.7	171.7	182.4	191.1										
12	1012C1	57,381		91,761	149,142	143,332	159,181		144,914	149,142	47,877	67,124		57,143	57,381	19.2	224.9	244.1	249.2										
13	1012C1	57,381		91,761	149,142	143,332	159,181		144,914	149,142	47,877	67,124		57,143	57,381	19.2	224.9	244.1	249.2										
14	1013C10	683		2,137	2,821	56	3,766	100	2,314		100	2,382	100	2,821	1,670	100	186		100	194	19	683	159.9	694.4	854.3	967.7			
15	719C10	8,933	127,307	18,318	154,557	0	147,472	0	161,642			0	154,557		143,250							136,240	74.8	334.1	408.0	489.3			
16	719C10	8,933	127,307	18,318	154,557	0	147,472	0	161,642			0	154,557		143,250							136,240	74.8	334.1	408.0	489.3			
17	908C1	3,034	174,144	64,917	242,440	263,961	235,920				227,440	242,440			191,328							170,023	177,178	25.4	250.3	275.7	305.9		

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	2	171	172	173		174	175	176	177	178	179	187	188	189	190	191	192	193	194	195	203	204	205
2	Cond ID	Thermal Emissions Rating			Chlorine HW Thermal Emiss (lb/10 ⁹ Btu)					Chlorine in HW (lb/MMBtu)													
3	Number	Camp Rating	Comments		R1	R2	R3	R SB	Cond Avg	R1	R2	R3	R SB	Cond Avg									
4		No																					
5																							
6	1009C2	1 NA	Chlorine only controlled through feedrate		2,259.1	2,663.0	2,749.1		2,557.0	0	2,342	2,278	2,298	2,306									
7	1009C2	1 NA	Data in lieu		2,259.1	2,663.0	2,749.1		2,557.0	0	2,342	2,278	2,298	2,306									
8	1014C10	1 NA	Normal		8.3				8.3	0	2,560	100	2,735	2,365	31	2,553							
9	1011C1	1 NA	Chlorine only controlled through feedrate		3,306.0	3,678.6		2,825.9	3,270.2	0	2,560	2,735	2,365	2,553									
10	1011C1	1 NA	Data in lieu		3,306.0	3,678.6		2,825.9	3,270.2	0	2,560	2,735	2,365	2,553									
11	1011C1	1 NA	Data in lieu		3,306.0	3,678.6		2,825.9	3,270.2	0	0,554	0,707	0,617	0,626									
12	1012C1	1 NA	Chlorine only controlled through feedrate		327.4	370.0		229.2	308.9	0	0,554	0,707	0,617	0,626									
13	1012C1	1 NA	Data in lieu		327.4	370.0		229.2	308.9	0	0,009	0,001	0,001	0,004									
14	1013C10									0	0,005	100	0,001	0,001	19	0,002							
15	719C10	1 NA	Chlorine only controlled through feedrate		697.7	932.9			815.3	0	0,797	0,698		0,748									
16	719C10	1 NA	Data in lieu		697.7	932.9			815.3	0	0,797	0,698		0,748									
17	908C1	1 NA	Chlorine only controlled through feedrate		1,613.0	2,234.7		2,162.7	2,003.5	0	1,640	1,932	1,932	1,835									