

US EPA ARCHIVE DOCUMENT

Data Summary: Solid Fuel Boilers, Low Volatile Metals

	A	B	C		D	E			F	G	H	M	O	P	Q	R	S	T	U
2	Source ID	Cond ID	Facility Information		Combustor Information			APCS	Hazardous	Munitions	Chemical	Mixed	Comm	Gov't	Condition Information				
3	Number	Number	Facility Name	City	Combustor	Combustor	Combustor	Detailed	Wastes	Popping	Weapons	Radioactive	vs On-site	Cond		Cond Description			
4					Category	Class	Type	Acronym		Furnace	Demil	Waste		Dates					
5																			
6	719	719C10	Eastman Chemicals Co. - Tennessee	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No	6/1/1998	CoC; max feedrates			
7	908	908C1	Union Carbide Corporation	South Charleston	Coal boiler	Coal-fired boiler	Pulverized	ESP	Liq	No	No	No	OS	No	5/1/1998	CoC, max haz waste feed rate, max			
8	1009	1009C2	Eastman Chemicals Co. - Arkansas	Batesville	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No	4/1/1999	Trial burn, risk burn; max conditio			
9	1011	1011C1	Eastman Chemicals Co. - Tennessee	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Sludge	No	No	No	OS	No	2/1/1998	CoC; max feedrates			
10	1012	1012C1	Eastman Chemicals Co. - Tennessee	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Biosludge	No	No	No	OS	No	6/1/1997	CoC; max feedrates			
11	1013	1013C10	Celanese	Pampa	Coal boiler	Coal-fired boiler	Pulverized	FF	Liq	No	No	No	OS	No	9/1/1998	CoC; max waste feed rate			
12	1014	1014C10	Celanese	Pampa	Coal boiler	Coal-fired boiler	Pulverized	FF	Liq	No	No	No	OS	No	9/1/1998	CoC; max waste feed rate			
13	1009A	1009C2	Eastman Chemicals Co. - Arkansas	Batesville	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No	4/1/1999	Trial burn, risk burn; max conditio			
14	1011A	1011C1	Eastman Chemicals Co. - Tennessee	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No	2/1/1998	CoC; max feedrates			
15	1011B	1011C1	Eastman Chemicals Co. - Tennessee	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No	2/1/1998	CoC; max feedrates			
16	1012A	1012C1	Eastman Chemicals Co. - Tennessee	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq	No	No	No	OS	No	6/1/1997	CoC; max feedrates			
17	719A	719C10	Eastman Chemicals Co. - Tennessee	Kingsport	Coal boiler	Coal-fired boiler	Stoker	ESP	Liq, sludge	No	No	No	OS	No	6/1/1998	CoC; max feedrates			

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	B	V	W	X	Y	Z	AA	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	BC	BD	BE	BF	BG	BH
2	Cond ID	Spiking			Tier			Sootblow	LVM Emissions				LVM Stack Emission (ug/dscm) - ND in %										
3	Number	Cr	As	Be	Cr	As	Be	Run Number	Campaign Number	Rating	Rating Comments	R1 ND	R1 Emiss	R2 ND	R2 Emiss	R3 ND	R3 Emiss	R SB ND	R SB Emiss	Cond Avg ND	Cond Avg Emiss	No SB ND	No SB Emiss
4																							
5																							
6	719C10	Y	Y	Y	3	3	3	R3	1	CT	2 runs only				257.7					170.1		213.9	257.7
7	908C1	Y	Y	Y	3	3	3	R3	1	CT			44.8		37.8					29.0		40.3	41.3
8	1009C2	Y	Y	Y	3	3	3	No	1	CT	High As stack gas non-detect	0	217.5	40	222.2	38	260.5					233.4	233.4
9	1011C1	Y	Y	Y	3	3	3	R3	1	CT		38	113.5		129.2					173.5		138.8	121.4
10	1012C1	Y	Y	Y	3	3	3	R3	1	CT		48	52.9	32	75.7					54.0		60.9	64.4
11	1013C10	Y			3	1	1	R3	1	NA	Cr only measured in stack gas			5.8		9.6		6.7		6.7		7.4	7.7
12	1014C10	Y			3	1	1	R3	1	NA	Cr only measured in stack gas			3.7		4.6		4.7		4.7		4.3	4.2
13	1009C2	Y	Y	Y	3	3	3	No	1	NA	High As stack gas non-detect, data in lieu	0	217.5	40	222.2	38	260.5					233.4	233.4
14	1011C1	Y	Y	Y	3	3	3	R3	1	NA	Data in lieu	38	113.5		129.2					173.5		138.8	121.4
15	1011C1	Y	Y	Y	3	3	3	R3	1	NA	Data in lieu	38	113.5		129.2					173.5		138.8	121.4
16	1012C1	Y	Y	Y	3	3	3	R3	1	NA	Data in lieu	48	52.9	32	75.7					54.0		60.9	64.4
17	719C10	Y	Y	Y	3	3	3	R3	1	NA	2 runs only, data in lieu				257.7					170.1		213.9	257.7

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	B	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	CR	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CX	CY	CZ	DA	DB	DC		
2	Cond ID	LVM SRE			LVM SRE (%)										LVM SRE Used for Ranking Purposes (%)															
3	Number	Camp	Rating	Comment	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	Cond Avg																			
5																														
6	719C10	1	CT		98.816	99.291			99.065	99.053		98.816	99.291			99.065	99.053			98.816	99.291			99.065	99.053			99.065	99.053	
7	908C1	1	CT		> 99.305	99.368			> 99.514	> 99.343	> 99.337	> 99.305	99.368			> 99.514	> 99.343	> 99.337		> 99.514	> 99.343			> 99.514	> 99.343			> 99.514	> 99.343	
8	1009C2	1	CT		> 98.591	> 98.613	> 98.362		> 98.521	> 98.521	> 98.521	> 98.591	> 98.613	> 98.362		> 98.521	> 98.521	> 98.521		> 98.521	> 98.613	> 98.362			> 98.521	> 98.613	> 98.362		> 98.521	> 98.613
9	1011C1	1	CT		> 99.383	99.204		98.987	> 99.196	> 99.293	> 99.293	> 99.383	99.204			98.987	> 99.196	> 99.293		98.987	> 99.196			98.987	> 99.196			98.987	> 99.196	
10	1012C1	1	CT		> 99.635	> 99.558		99.767	> 99.667	> 99.596	> 99.596	> 99.635	> 99.558			99.767	> 99.667	> 99.596		99.767	> 99.667			99.767	> 99.667			99.767	> 99.667	
11	1013C10	1	CT	Cr only measured in stack gas	> 99.935	> 99.890		> 99.912	> 99.912	> 99.912	> 99.912	> 99.935	> 99.890			> 99.912	> 99.912	> 99.912		> 99.912	> 99.912			> 99.912	> 99.912			> 99.912	> 99.912	
12	1014C10	1	CT	Cr only measured in stack gas	> 99.940	> 99.929		> 99.874	> 99.921	> 99.934	> 99.934	> 99.940	> 99.929			> 99.874	> 99.921	> 99.934		> 99.874	> 99.921			> 99.874	> 99.921			> 99.874	> 99.921	
13	1009C2	1	NA	Data in lieu	> 98.591	> 98.613	> 98.362		> 98.521	> 98.521	> 98.521	> 98.591	> 98.613	> 98.362		> 98.521	> 98.521	> 98.521		> 98.521	> 98.613	> 98.362			> 98.521	> 98.613	> 98.362		> 98.521	> 98.613
14	1011C1	1	NA	Data in lieu	> 99.383	99.204		98.987	> 99.196	> 99.293	> 99.293	> 99.383	99.204			98.987	> 99.196	> 99.293		98.987	> 99.196			98.987	> 99.196			98.987	> 99.196	
15	1011C1	1	NA	Data in lieu	> 99.383	99.204		98.987	> 99.196	> 99.293	> 99.293	> 99.383	99.204			98.987	> 99.196	> 99.293		98.987	> 99.196			98.987	> 99.196			98.987	> 99.196	
16	1012C1	1	NA	Data in lieu	> 99.635	> 99.558		99.767	> 99.667	> 99.596	> 99.596	> 99.635	> 99.558			99.767	> 99.667	> 99.596		99.767	> 99.667			99.767	> 99.667			99.767	> 99.667	
17	719C10	1	NA	Data in lieu	98.816	99.291			99.065	99.053		98.816	99.291			99.065	99.053			98.816	99.291			99.065	99.053			99.065	99.053	

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	B	DD	DE	DG	DI	DJ	DK	DL	DM	DN	DO	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	FF	FG	FH	FI	FJ	FK	FM	FN	
2	Cond ID	LVM Feedrate, Cond Avg (ug/dscm)				LVM Total Feedrate (ug/ds)							LVM HW + Spike Feedrate (ug/t)							Thermal Feedrate										
3	Number	HW	Spike	Coal	Total	R1	R2	R3	R SB	Cond Avg	R1	R2	R3	R SB	Cond Avg	MMBtu/hr Cond Avg														
4						ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	HW	Coal	Total	Total Est											
5																														
6	719C10	3,246	18,148	1,476	22,870			0	23,980			0	21,761	0	22,870			0.04	22,492			0.0	20,298		21,395	74.8	334.1	408.0	489.3	
7	908C1	14	4,007	2,162	6,182	1	6,520	0	5,985			1	6,042	1	6,182	0.1	4,309	0.1	3,875			0.1	3,877		4,020	25.4	250.3	275.7	305.9	
8	1009C2	47	14,927	811	15,784		15,435		16,023		15,902				15,784		14,581		15,210		15,138				14,973	31.2	62.3	93.4	92.8	
9	1011C1	3,257	12,056	1,943	17,256		18,408		16,220				17,140		17,256		16,348		14,480				15,109		15,312	10.7	171.7	182.4	191.1	
10	1012C1	10,775	5,153	2,321	18,249		14,473		17,113				23,162		18,249		12,387		14,741				20,657		15,928	19.2	224.9	244.1	249.2	
11	1013C10	1,251	7,073	217	8,540	1	9,019	1	8,846			1	7,755	1	8,540	0.3	8,799	0.3	8,648			0.3	7,522		8,323	159.9	694.4	854.3	967.7	
12	1014C10	1,168	4,252	263	5,683	2	6,410	2	6,676			3	3,963	2	5,683	0.4	6,072	0.4	6,441			0.7	3,747		5,420	181.1	719.5	900.6	919.1	
13	1009C2	47	14,927	811	15,784		15,435		16,023		15,902				15,784		14,581		15,210		15,138				14,973	31.2	62.3	93.4	92.8	
14	1011C1	3,257	12,056	1,943	17,256		18,408		16,220				17,140		17,256		16,348		14,480				15,109		15,312	10.7	171.7	182.4	191.1	
15	1011C1	3,257	12,056	1,943	17,256		18,408		16,220				17,140		17,256		16,348		14,480				15,109		15,312	10.7	171.7	182.4	191.1	
16	1012C1	10,775	5,153	2,321	18,249		14,473		17,113				23,162		18,249		12,387		14,741				20,657		15,928	19.2	224.9	244.1	249.2	
17	719C10	3,246	18,148	1,476	22,870	0	21,761	0	23,980			0	22,870	0.05					22,492			0.0	20,298		21,395	74.8	334.1	408.0	489.3	

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	B	FO	FP	FQ	FR	FS	FT	FU	FV	FW	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GT	GU	GV	GW	
2	Cond ID	LVM Thermal Emiss Rating			LVM HW Thermal Emiss (lb/10 ¹² Btu)										LVM in HW (lb/10 ⁹ Btu)										
3	Number	Camp No	Rating	Comments	R1	R2	R3	R SB	Cond Avg	R1	R2	R3	R SB	Cond Avg											
4																									
5																									
6	719C10	1	CT		0	1,550	0	771	0				0	1,161		130.90		108.68						119.79	
7	908C1	1	CT		0	263	0	251	0				210	242	0.1	37.82	0.1	39.81	0.0				43.31	0.1	40.31
8	1009C2	1	CT		0	555	40	524	38		615		26	565		39.40		37.80		37.56				38.25	
9	1011C1	1	CT		38	1,391	0	2,008	0				2,260	15	1,886	225.57	252.12					223.21		233.63	
10	1012C1	1	CT		48	534	32	681	0				511	39	575	146.05	153.89					219.53		173.16	
11	1013C10	1	NA	Cr only measured in stack gas	0	31	0	46	0				32	36	0.3	46.83	0.3	42.19					36.34	0.3	41.79
12	1014C10	1	NA	Cr only measured in stack gas	0	16	0	18	0				20	18	0.4	27.31	0.4	25.32					15.88	0.4	22.83
13	1009C2	1	NA		0	555	40	524	38		615			565		39.40		37.80	0.0	37.56				38.25	
14	1011C1	1	NA	Data in lieu	38	1,391	0	2,008	0				2,260	15	1,886	225.57	252.12					223.21		233.63	
15	1011C1	1	NA	Data in lieu	38	1,391	0	2,008	0				2,260	15	1,886	225.57	252.12					223.21		233.63	
16	1012C1	1	NA	Data in lieu	48	534	32	681	0				511	39	575	146.05	153.89					219.53		173.16	
17	719C10	1	NA	Data in lieu	0	1,550	0	771	0						1,161	130.90		108.68						119.79	