

US EPA ARCHIVE DOCUMENT

Data Summary: Liquid Fuel Boilers, Semi Volatile Metals

	A	B	C	D	E	F	G	H	M	O	P	Q	R	S
2	Source ID	Cond ID	Facility Information		Combustor Information			APCS Detailed Acronym	Hazardous Wastes	Munitions Popping Furnace	Chemical Weapons Demil	Mixed Radioactive Waste	Comm vs On-site	Gov't
3	Number	Number	Facility Name	City	Combustor Category	Combustor Class	Combustor Type							
4														
5														
6	232	232C11	Solutia (Chocolate Bayou Plant)	Alvin	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
7	724	724C2	Merichem Company	Houston	Liquid boiler	Liquid-fired boiler	Liquid-fired	Q/ME	Liq	No	No	No	OS	No
8	759	759C3	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired		Liq	No	No	No	OS	No
9	760	760C4	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
10	761	761C5	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
11	767	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
12	812	812C2	Rubicon, Inc	Geismar	Liquid boiler	Liquid-fired boiler	Liquid-fired	Q/WS	Liq	No	No	No	OS	No
13	813	813C3	Rubicon, Inc.	Geismar	Liquid boiler	Liquid-fired boiler	Liquid-fired	FF	Liq	No	No	No	OS	No
14	814	814C2	Rubicon, Inc	Geismar	Liquid boiler	Liquid-fired boiler	Liquid injection, process heater	None	Liq	No	No	No	OS	No
15	815	815C2	Rubicon, Inc	Geismar	Liquid boiler	Liquid-fired boiler	Liquid injection, process heater	None	Liq	No	No	No	OS	No
16	819	819C1	Rhone-Poulenc AG Company	Charleston	Liquid boiler	Liquid-fired boiler	Liquid-fired	ESP	Liq	No	No	No	OS	No
17	843	843C3	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
18	901	901C1	Diversified Scientific Services, Inc.	Kingston	Liquid boiler	Liquid-fired boiler,	Liquid-fired	SD/FF/PBS/RH/HEPA	Liq	No	No	Yes	Comm	No
19	901	901C2	Diversified Scientific Services, Inc.	Kingston	Liquid boiler	Liquid-fired boiler,	Liquid-fired	SD/FF/PBS/RH/HEPA	Liq	No	No	Yes	Comm	No
20	911	911C11	Sunoco Inc. (R&M) Haverhill Plant	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
21	911	911C10	Sunoco Inc. (R&M) Haverhill Plant	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
22	912	912C4	Sunoco Inc. (R&M) Haverhill Plant	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
23	232A	232C11	Solutia (Chocolate Bayou Plant)	Alvin	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
24	759A	759C3	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired		Liq	No	No	No	OS	No
25	761A	761C5	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
26	767A	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
27	767B	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
28	767C	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
29	767D	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
30	819A	819C1	Rhone-Poulenc AG Company	Charleston	Liquid boiler	Liquid-fired boiler	Liquid-fired	ESP	Liq	No	No	No	OS	No
31	843A	843C3	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
32	843B	843C3	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
33	911A	911C11	Aristech Chemical Corporation	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
34	911A	911C10	Aristech Chemical Corporation	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
35	911B	911C11	Aristech Chemical Corporation	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
36	911B	911C10	Aristech Chemical Corporation	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Liq	No	No	No	OS	No
37	2020	2020C3	Dow Chemical Company	Freeport	HCl productio	HCl Production Furnace		WHB/VS/WS	Liq	No	No	No	OS	No
38														
39	Sources Shutdown or No Longer Burning Hazardous Wastes													
40	849	849C5	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	VS/WS	Liq	No	No	No	OS	No

Data Summary: Liquid Fuel Boilers, Semi Volatile Metals

	B	T	U		V	W	Y	Z	AC	AD	AE	AF			AG	AH	AI	AJ	AK	AL	BC	BD	BE	BF	BG	BH	
2	Cond ID	Condition Information				Spiking		Tier		SB	SVM Emissions			SVM Stack Gas (ug/dscm)													
3	Number	Cond Description				Pb	Cd	Pb	Cd	Runs	Camp	Rating	Rating Comments		R1		R2		R3		R SB		Cond Avg		No SB		
4	Dates									Number	No				ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	
5																											
6	232C11	9/1/1997	Trial burn; max waste feed, max prod rate	N					No	1	N			100	1	100	2	100		1			100		1	100	1
7	724C2	7/1/1996	CoC; max waste feed (spiked ash, chlorine, Y				3	1	No	1	NA	Pb only measured in stack gas			37		21		20					26	0	26	
8	759C3	7/1/1998	Risk burn	N					No	1	N	need total waste feedrate to calc MTEC:	100	75	100	29	100	35			100		46	100	46		
9	760C4	6/30/1994	Risk burn	N					No	1	N	need total waste feedrate to calc MTEC:	100	83	100	33	100	22			100		46	100	46		
10	761C5	12/1/1998	Risk burn	N					No	1	N	need total waste feedrate to calc MTEC:	100	44	100	31	100	38			100		38	100	38		
11	767C8	1/1/1998	Risk burn, worst case cond, max waste feec	N					No	1	N			5		33		17					18	0	18		
12	812C2	7/1/1997	Trial burn, risk burn; max feed rate	N					No	1	N			4	14	100	17	100	23			75	18	75	18		
13	813C3	8/1/1997		N					No	1	N			97	28	94	31	96	67			96	42	96	42		
14	814C2	6/1/1997	Trial burn, risk burn; max feed rate	N					No	1	N			1	11	1	7	1	8			1	8	1	8		
15	815C2	6/1/1997		N					No	1	N			1	8	1	11	1	9			1	9	1	9		
16	819C1	3/1/1998	CoC; high haz waste feed rate	N	N		1	1	R2	1	NA	Cd only in stack gas		100	2	100		100	2		2	100	1	100	2		
17	843C3	2/1/1998	Risk burn, slightly above normal operating c	N					No	1	NA			100	0	100	1	100	1			100	1	100	1		
18	901C1	2/1/1996	CoC, max feed, flow, and prod rate, max ter	Y			3	3	No	1	IB	Mixed waste			4		2		1				3	0	3		
19	901C2	2/1/1996	CoC, max feed and flowrate, min pressure c	Y			3	3	No	1	CT	Mixed waste			8		3		5				5	0	5		
20	911C11	11/1/2001	CoC; HHC waste fuel high range	N					No	0	N				10	3	24		20			1	18	1	18		
21	911C10	11/1/2001	CoC; LHC waste fuel high range	N					No	0	N				25		18		27			0	23	0	23		
22	912C4	10/1/2001	CoC; LHC waste fuel high range	N					No	1	N			100	26	0	29	100	39			69	31	69	31		
23	232C11	9/1/1997	Trial burn; max waste feed, max prod rate	N					No	1	NA	Data in lieu		100	1	100	2	100	1			100	1	100	1		
24	759C3	7/1/1998	Risk burn	N					No	1	NA	need total waste feedrate to calc MTEC:	100	75	100	29	100	35			100		46	100	46		
25	761C5	12/1/1998	Risk burn	N					No	1	NA	need total waste feedrate to calc MTEC:	100	44	100	31	100	38			100		38	100	38		
26	767C8	1/1/1998	Risk burn, worst case cond, max waste feec	N					No	1	NA	Data in lieu			5		33		17				18	0	18		
27	767C8	1/1/1998	Risk burn, worst case cond, max waste feec	N					No	1	NA	Data in lieu			5		33		17				18	0	18		
28	767C8	1/1/1998	Risk burn, worst case cond, max waste feec	N					No	1	NA	Data in lieu			5		33		17				18	0	18		
29	767C8	1/1/1998	Risk burn, worst case cond, max waste feec	N					No	1	NA	Data in lieu			5		33		17				18	0	18		
30	819C1	3/1/1998	CoC; high haz waste feed rate	N	N		1	1	R2	1	NA	Cd only in stack gas; data in lieu		100	2	100		100	2		2	100	1	100	2		
31	843C3	2/1/1998	Risk burn, slightly above normal operating c	N					No	1	NA	Data in lieu		100	0	100	1	100	1			100	1	100	1		
32	843C3	2/1/1998	Risk burn, slightly above normal operating c	N					No	1	NA	Data in lieu		100	0	100	1	100	1			100	1	100	1		
33	911C11	11/1/2001	CoC; HHC waste fuel high range	N					No	0	NA	Data in lieu			10		24		20				18	0	18		
34	911C10	11/1/2001	CoC; LHC waste fuel high range	N					No	0	NA	Data in lieu			25		18		27			0	23	0	23		
35	911C11	11/1/2001	CoC; HHC waste fuel high range	N					No	0	NA	Data in lieu			10		24		20				18	0	18		
36	911C10	11/1/2001	CoC; LHC waste fuel high range	N					No	0	NA	Data in lieu			25		18		27			0	23	0	23		
37	2020C3	3/1/2000	Risk burn, normal operating cond of liq feed	N	N		1	1		1	N			11	1.4	13	1.2	27	1.5			18	1.4				
38																											
39	shutdown or																										
40	849C5	6/1/1998	Risk burn, slightly above normal conditions	N					No	1	N				3		2	100	2			12	3	31	3		

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	B	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CZ	DA	DB	DC	
2	Cond ID	SVM SRE			SVM SRE (%)										SVM SRE Used For Ranking Purposes (%)										
3	Number	Campaign	Rating	Comment	R1	R2	R3	Cond Avg	No SB								R1	R2	R3	Cond Avg	No SB				
4		Number							Cond Avg																
5																									
6	232C11																								
7	724C2																								
8	759C3																								
9	760C4																								
10	761C5																								
11	767C8																								
12	812C2																								
13	813C3																								
14	814C2																								
15	815C2																								
16	819C1																								
17	843C3	1 NA		SVM not controlled; SRE set to 0, normal >	96.817 >	97.411 >	96.933 >	97.099 >	97.099	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
18	901C1	1 CT			99.980	99.988	99.993	99.987	99.987	99.980	99.988	99.993	99.987	99.987	99.980	99.988	99.993	99.987	99.987	99.987	99.987	99.987	99.987	99.987	
19	901C2	1 IB			99.992	99.997	99.994	99.994	99.994	99.992	99.997	99.994	99.994	99.994	99.992	99.997	99.994	99.994	99.994	99.994	99.994	99.994	99.994	99.994	
20	911C11	0 NA		SVM not controlled; SRE set to 0; normal	13.990	-99.240	-80.069	-55.689	-55.689	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
21	911C10																								
22	912C4																								
23	232C11																								
24	759C3																								
25	761C5																								
26	767C8																								
27	767C8																								
28	767C8																								
29	767C8																								
30	819C1																								
31	843C3	1 NA		SVM not controlled; SRE set to 0; data in >	96.817 >	97.411 >	96.933 >	97.099 >	97.099	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
32	843C3	1 NA		SVM not controlled; SRE set to 0; data in >	96.817 >	97.411 >	96.933 >	97.099 >	97.099	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
33	911C11	0 NA		SVM not controlled; SRE set to 0; data in lieu	13.990	-99.240	-80.069	-55.689	-55.689	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
34	911C10																								
35	911C11	0 NA		SVM not controlled; SRE set to 0; data in lieu	13.990	-99.240	-80.069	-55.689	-55.689	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
36	911C10																								
37	2020C3	1 NA		Normal	>	26.7 >	38.6 >	54.3 >	42.4																
38																									
39	shutdown or																								
40	849C5	1 NA		Normal		93.071	94.052 >	94.249 >	93.793 >	93.793	93.071	94.052 >	94.249 >	93.793 >	93.793	93.071	94.052 >	94.249 >	93.793 >	93.793 >	93.793 >	93.793 >	93.793	93.793	

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	B	DJ	DK	DL	DM	DN	DO	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	FF	FG	FH	FI	FJ	FL	FM	FN	FO	FP	FQ		
2	Cond ID	SVM Feedrate Total (ug/dscm)										SVM Feedrate Hazardous Wastes and Spike (ug/dscm)										Thermal Feedrate (MMBtu/hr)				Thermal Emiss Rating				
3	Number	R1	R2	R3	R SB	Cond Avg	R1	R2	R3	R SB	Cond Avg	R1	R2	R3	R SB	Cond Avg	HW	MF	Total	Est Total	Camp No	Rating	Comments							
4		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND														
5																														
6	232C11	100	34	100	41	100	36			100	37	100	34	100	41	100	36			100	37	128.6		128.6	560.6	1	N	Normal		
7	724C2																					16.7		16.7	70.3	1	IB	Pb spike, Cd norma		
8	759C3																											154.6		
9	760C4																													
10	761C5																													
11	767C8																													
12	812C2	50	75	50	79	50	80			100	78	50	75	50	79	50	80			100	78	28.8		28.8	30.2	1	N	Normal		
13	813C3	100	16	100	17	100	16			100	16	100	16	100	16	100	16			100	16									
14	814C2	100	39	100	38	100	37			100	38	100	39	100	38	100	37			100	38	19.4	4.5	23.9	19.7	1	N	Normal		
15	815C2	100	32	100	32	100	33			100	32	100	32	100	32	100	33			100	32	18.3	6.6	24.9	21.1	1	N	Normal		
16	819C1	100	86		100	79	100	74	100	80	100	86		100	79	100	74	100	80	77.0	43.9	121.0	132.7	1	NA	Data in lieu				
17	843C3	25	15	11	34	9	42			13	31	25	15	11	34	9	42			13	31	48.7	20.7	69.4	76.0	1	N	Normal		
18	901C1		20,079		20,593		19,058			19,910		20,079		20,593		19,058				19,910		13.7	2.8	16.5	16.7	1	IB			
19	901C2		88,674		82,190		91,870			87,578		88,674		82,190		91,870				87,578		2.6	1.7	4.4	3.7	1	CT			
20	911C11		12		12		11			12		12		12		11				12								171.3		
21	911C10		10		10		10			10		10		10		10				10								153.6		
22	912C4																					75.5	69.8	145.2	162.8	1	N	Normal		
23	232C11	100	34	100	41	100	36			100	37	100	34	100	41	100	36			100	37	128.6		128.6	560.6	1	NA	Normal		
24	759C3																											154.6		
25	761C5																													
26	767C8																													
27	767C8																													
28	767C8																													
29	767C8																													
30	819C1	100	86		100	79	100	74	100	80	100	86		100	79	100	74	100	80	77.0	43.9	121.0	132.7	1	NA	Data in lieu				
31	843C3	25	15	11	34	9	42			13	31	25	15	11	34	9	42			13	31	48.7	20.7	69.4	76.0	1	NA	Data in lieu		
32	843C3	25	15	11	34	9	42			13	31	25	15	11	34	9	42			13	31	48.7	20.7	69.4	76.0	1	NA	Data in lieu		
33	911C11		12		12		11			12		12		12		11				12								171.3		
34	911C10		10		10		10			10		10		10		10				10								153.6		
35	911C11		12		12		11			12		12		12		11				12								171.3		
36	911C10		10		10		10			10		10		10		10				10								153.6		
37	2020C3	93	26	92	25	89	29			91	27																			
38																														
39	shutdown or																													
40	849C5	0	41	0	40	0	41			0	41	0	41	0	40	0	41			0	41	27.1		27.1	43.3	1	N	Normal		

Data Summary: Liquid Fuel Boilers, Semi Volatile Metals

	B	FR	FS	FT	FU	FV	FW	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GT	GU	GV	GW	
2	Cond ID	SVM HW Thermal Emiss (lb/10 ¹² Btu)										SVM in HW (lb/10 ⁹ Btu)									
3	Number	R1		R2		R3		R SB		Cond Avg		R1		R2		R3		R SB		Cond Avg	
4																					
5																					
6	232C11	100	3.26	100	8.64	100	4.27		100	5.39	100	0.13	100	0.15	100	0.13			100		0.14
7	724C2	0	125.90	0	75.28	0	72.66		0	91.28	0	79.32	0	77.02	0	79.56			0		78.63
8	759C3																				
9	760C4																				
10	761C5																				
11	767C8																				
12	812C2	4	11.99	100	14.55	100	19.95		75	15.50	50	0.07	50	0.07	50	0.07			100		0.07
13	813C3																				
14	814C2	1	9.21	1	5.74	1	6.90		1	7.29	100	0.03	100	0.03	100	0.03			100		0.03
15	815C2	1	7.20	1	9.85	1	7.90		1	8.32	100	0.03	100	0.03	100	0.03			100		0.03
16	819C1	100	3.30	100		100	3.14	3.15	100	3.19	100	0.12	0		100	0.11		0.11	100		0.12
17	843C3	100	0.61	100	1.17	100	1.71		100	1.16	25	0.02	11	0.05	9	0.06			13		0.04
18	901C1									2.74											
19	901C2									6.27											
20	911C11																				
21	911C10																				
22	912C4	100	5.42	0	57.54	100	82.37		69	48.44											
23	232C11	100	3.26	100	8.64	100	4.27		100	5.39	100	0.13	100	0.15	100	0.13			100		0.14
24	759C3																				
25	761C5																				
26	767C8																				
27	767C8																				
28	767C8																				
29	767C8																				
30	819C1		3.30				3.14	3.15		3.19		0.12			0.11			0.11			0.12
31	843C3		0.61		1.17		1.71			1.16		0.02		0.05	0.06						0.04
32	843C3		0.61		1.17		1.71			1.16		0.02		0.05	0.06						0.04
33	911C11																				
34	911C10																				
35	911C11																				
36	911C10																				
37	2020C3																				
38																					
39	shutdown or																				
40	849C5		3.80		3.15		3.21			3.39		0.05		0.05	0.06						0.05