

US EPA ARCHIVE DOCUMENT

Data Summary: Liquid Fuel Boilers, PCDD/PCDF

	1	2	3	4	5	6	7	8	9	10	13	15	16	17	18	19
2	Source ID	Cond ID	Facility Information		Combustor Information			APCS Detailed Acronym	Dry vs Wet APCS	Waste Heat Boiler	Hazardous Wastes	Munitions Popping Furnace	Chemical Weapons Demil	Mixed Radioactive Waste	Comm vs Onsite	Gov't
3	Number	Number	Facility Name	City	Combustor Category	Combustor Class	Combustor Type									
4																
6	232	232C10	Solutia (Chocolate Bayou Plant)	Alvin	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
7	232	232C11	Solutia (Chocolate Bayou Plant)	Alvin	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
8	720	720C10	Celanese Ltd., Chemical Group Clear Lak	Pasadena	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
9	721	721C12	Celanese Ltd	Bay City	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
10	735	735C4	Reilly Industries, Inc.	Indianapolis	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
11	735	735C3	Reilly Industries, Inc.	Indianapolis	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
12	737	737C4	Reilly Industries, Inc.	Indianapolis	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
13	737	737C3	Reilly Industries, Inc.	Indianapolis	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
14	756	756C10	DSM Copolymer Inc.	Addis	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
15	759	759C3	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Unknown	No	Liq	No	No	No	OS	No
16	760	760C4	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
17	761	761C5	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
18	767	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
19	771	771C1	Kalama Chemical (BF Goodrich)	Kalama	Liquid boiler	Liquid-fired boiler	Liquid-fired	FF	Dry	No	Liq	No	No	No	OS	No
20	771	771C2	Kalama Chemical (BF Goodrich)	Kalama	Liquid boiler	Liquid-fired boiler	Liquid-fired	FF	Dry	No	Liq	No	No	No	OS	No
21	812	812C3	Rubicon, Inc	Geismar	Liquid boiler	Liquid-fired boiler	Liquid-fired	Q/WS	Wet	No	Liq	No	No	No	OS	No
22	813	813C3	Rubicon, Inc.	Geismar	Liquid boiler	Liquid-fired boiler	Liquid-fired	FF	Dry	No	Liq	No	No	No	OS	No
23	814	814C2	Rubicon, Inc	Geismar	Liquid boiler	Liquid-fired boiler	Liquid inject	None	None	No	Liq	No	No	No	OS	No
24	815	815C2	Rubicon, Inc	Geismar	Liquid boiler	Liquid-fired boiler	Liquid inject	None	None	No	Liq	No	No	No	OS	No
25	818	818C13	Westvaco	DeRidder	Liquid boiler	Liquid-fired boiler	Liquid inject	ESP	Dry	No	Liq, solid	No	No	No	OS	No
26	822	822C2	Exxon Chemical Co.	Baton Rouge	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
27	828	828C1	Angus Chemical Company	Sterlington	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
28	833	833C12	BASF Corporation	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
29	834	834C11	BASF	Geismar	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
30	836	836C13	BASF	Geismar	Liquid boiler	Liquid-fired boiler	Liquid-Fired	None	None	No	Liq	No	No	No	OS	No
31	843	843C3	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
32	911	911C13	Sunoco Inc. (R&M) Haverhill Plant	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
33	1016	1016C1	BASF Corporation	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	WS	Wet	No	Liq	No	No	No	OS	No
34	1018	1018C12	Celanese Ltd	Bishop	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
35	2000	2000C2	Georgia Gulf Chemicals and Vinyls, LLC.	Plaquemine	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq, tar	No	No	No	OS	No
36	2001	2001C3	Dow Chemical Co.	Plaquemine	Liquid boiler	Liquid-fired boiler	Liquid-fired	HCI/ABS/CWS	Wet	No	Liq	No	No	No	OS	No
37	2002	2002C3	Dow Chemical Co.	Plaquemine	Liquid boiler	Liquid-fired boiler	Liquid-fired	Q/HCIABS/CWS	Wet	No	Liq	No	No	No	OS	No
38	2003	2003C3	Dow Chemical Co.	Plaquemine	Liquid boiler	Liquid-fired boiler	Liquid-fired	Q/HCIABS/CWS	Wet	No	Liq	No	No	No	OS	No
39	2012	2012C2	E.I. Du Pont Nemours & Company, Inc.	Victoria	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Unknown	No	Liq	No	No	No	OS	No
40	2013	2013C4	E.I. Du Pont De Nemours & Company, Inc	Victoria	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Unknown	No	Liq	No	No	No	OS	No
41	2016	2016C2	E.I. Du Pont De Nemours & Company, Inc	Victoria	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Unknown	No	Liq	No	No	No	OS	No
42	2021	2021C3	Union Carbide Coporation	Texas City	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liquid waste	No	No	No	OS	No
43	2001A	2001C3	Dow Chemical Co.	Plaquemine	Liquid boiler	Liquid-fired boiler	Liquid-fired	HCI/ABS/CWS	Wet	No	Liq	No	No	No	OS	No
44	2012A	2012C2	E.I. Du Pont Nemours & Company, Inc.	Victoria	Liquid boiler	Liquid-fired boiler	Liquid-fired	?	Unknown	No	Liq	No	No	No	OS	No
45	232A	232C10	Solutia (Chocolate Bayou Plant)	Alvin	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
46	232A	232C11	Solutia (Chocolate Bayou Plant)	Alvin	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
47	721A	721C12	Celanese Ltd	Bay City	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
48	759A	759C3	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	Unknown	No	Liq	No	No	No	OS	No
49	761A	761C5	E.I. duPont de Nemours & Co., Inc.	Orange	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
50	767A	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
51	767B	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
52	767C	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
53	767D	767C8	Goodyear Tire and Rubber Company	Beaumont	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
54	822A	822C2	Exxon Chemical Co.	Baton Rouge	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
55	843A	843C3	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
56	843B	843C3	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
57	911A	911C13	Aristech Chemical Corporation	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
58	911B	911C13	Aristech Chemical Corporation	Haverhill	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
59	2020	2020C3	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	WHB/VS/WS	Wet	Yes	Liq	No	No	No	OS	No
60	Sources Shutdown or No Longer Burning Hazardous Wastes															
61	753	753C10	Union Carbide Corp.	Hahnville	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No
62	849	849C5	Dow Chemical Company	Freeport	Liquid boiler	Liquid-fired boiler	Liquid-fired	VS/WS	Wet	No	Liq	No	No	No	OS	No

Data Summary: Liquid Fuel Boilers, PCDD/PCDF

	2	20	21	28	29	30	31	32	33	34	35	36	37	38	55	56	57	58	59	60		
2	Cond ID	Condition Information			Dry	SB	DF Emissions			D/F Stack Emission (ng TEQ/dscm)												
3	Number	Cond Description			APCD	Run	Camp	Rating	Rating	Comments	R1		R2		R3		R SB		Cond Avg		No SB	
4		Dates			Temp RA		No				ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Cond Avg
6	232C10	9/1/1997	Trial burn; low temp "worst-case" organic destruction	No		1	N			100	0.0212	100	0.0163	100	0.0177		100	0.0184	100	0.0184		
7	232C11	9/1/1997	Trial burn; max waste feed, max prod rate	No		1	N			92	0.0028	100	0.0047	85	0.0015		95	0.0030	95	0.0030		
8	720C10	12/1/1998	Risk burn	No		1	N			100	0.0270	100	0.0164	19	0.0029		95	0.0154	95	0.0154		
9	721C12	7/1/1998	Risk burn; typical feedrate	No		1	N			17	0.0043	16	0.0044	21	0.0045		18	0.0044	18	0.0044		
10	735C4	10/1/1999	Trial burn; min comb temp and DRE	No		1	N			100	0.0085	100	0.0054	100	0.0078		100	0.0072	100	0.0072		
11	735C3	10/1/1999	Trial burn; max waste feedrates	R3		1	N			100	0.0064	100	0.0065	100		0.0058	100	0.0062	100	0.0065		
12	737C4	11/1/1999	Trial burn, min comb temp, min steam prod rate	No		1	N			100	0.0051	100	0.0034	98	0.0038		99	0.0041	99	0.0041		
13	737C3	11/1/1999	Trial burn, high feed rate, max steam prod	R3		1	N			100	0.0189	100	0.0177	100		0.0177	100	0.0181	100	0.0183		
14	756C10	4/1/1998	Risk burn	No		1	N			100	0.0369	100	0.0248	100	0.0365		100	0.0328	100	0.0328		
15	759C3	7/1/1998	Risk burn	No		1	N			100	0.0050	99	0.0056	100	0.0034		99	0.0047	99	0.0047		
16	760C4	6/30/1994	Risk burn	No		1	N			98	0.0048	97	0.0043	98	0.0046		98	0.0045	98	0.0045		
17	761C5	12/1/1998	Risk burn	No		1	N			79	0.0041	91	0.0013	99	0.0017		86	0.0023	86	0.0023		
18	767C8	1/1/1998	Risk burn, worst case cond, max waste feed and max prod	No		1	N			0	0.0000	0	0.0000	0	0.0000		0	0.0000	0	0.0000		
19	771C1	6/1/1996	Trial burn; max comb temp, max prod rate, max benzene	R3		1	N	Assume normal FF c		95	0.0089	90	0.0105	98		0.0182	95	0.0125	95	0.0097		
20	771C2	6/1/1996	Trial burn; min comb temp and min prod rate, max moisture/methanol feed	R3		1	N	Assume normal FF c		92	0.0064	83	0.0093	92		0.0077	89	0.0078	89	0.0079		
21	812C3	7/1/1997	Risk burn; max organic liquid feed	No		1	N			93	0.3785		0.3152	66	0.3715		56	0.3551	56	0.3551		
22	813C3	8/1/1997		410	No	1	N	FF operated at 410F		37	2.8613	97	3.2314	33	0.9863		64	2.3597	64	2.3597		
23	814C2	6/1/1997	Trial burn, risk burn; max feed rate	No		1	N			79	0.0857	44	0.0234	86	0.1062		79	0.0718	79	0.0718		
24	815C2	6/1/1997		No		1	N			99	0.0430	94	0.0392	100	0.0376		98	0.0399	98	0.0399		
25	818C13	6/1/1998	Coc testing	No		1	N	Assume normal ESF		19	0.0322	14	0.0367	37	0.0132		20	0.0273	20	0.0273		
26	822C2	7/1/1997	Risk burn, max waste feed	No		1	N			57	0.0465	57	0.0198	61	0.0250		58	0.0305	58	0.0305		
27	828C1	4/1/1997	Risk burn -- normal conditions	No		1	N				0.1008	2	0.0917	9	0.0913		4	0.0946	4	0.0946		
28	833C12	5/1/1998	Risk burn	No		1	N			28	0.0065	38	0.0063	88	0.0092		56	0.0073	56	0.0073		
29	834C11	3/1/1997	Risk burn, worst case op cond (max temp, feedrates, prod rates)	No		1	N			47	0.0096	93	0.0078	100	0.0064		76	0.0079	76	0.0079		
30	836C13	2/1/1997	Risk burn; worst case (max temp., feedrates, production rates)	No		1	N			65	0.0309	98	0.0414	71	0.0361		80	0.0361	80	0.0361		
31	843C3	2/1/1998	Risk burn, slightly above normal operating conditions	No		1	N			88	0.0041	94	0.0051	98	0.0042		93	0.0044	93	0.0044		
32	911C13	11/1/2001	CoC; HHC waste fuel low range	No		1	N			100	0.0242	100	0.0234	100	0.0798		100	0.0425	100	0.0425		
33	1016C1	9/1/1998	Trial Burn/Risk Burn	No		1	N			0	0.1999	0	0.1911	0	0.1867		0	0.1926	0	0.1926		
34	1018C12	6/1/1998	Risk burn at max. liquid waste feedrates + min. natural gas flowrate	No		1	N			100	0.0058	100	0.0040	100	0.0101		100	0.0066	100	0.0066		
35	2000C2	8/1/1997	Risk burn, normal operating condition	R3		1	N			0	0.0162	0	0.0411	13		0.0378	5	0.0317	5	0.0287		
36	2001C3	9/1/1997	Risk burn; normal operating conditions	No		1	N				0.4100		0.4085		0.4867		0	0.4351	0	0.4351		
37	2002C3	8/1/1997	Risk burn; normal op cond	No		1	N			13	0.0407	1	0.1171	2	0.1173		4	0.0917	4	0.0917		
38	2003C3	8/1/1997	Risk burn; normal op conditions	No		1	N			23	0.0216	22	0.0207	44	0.0215		30	0.0212	30	0.0212		
39	2012C2	5/1/1999	Risk burn	No		1	N			98	0.0075	98	0.0049	99	0.0054		98	0.0059	98	0.0059		
40	2013C4	2/1/1999	Risk burn, normal op cond w/ Cr spike	No		1	N			0	0.0472	0	0.0399	26	0.0080		2	0.0317	2	0.0317		
41	2016C2	2/1/1999	Risk burn	No		1	N			65	0.0034	64	0.0032	88	0.0030		72	0.0032	72	0.0032		
42	2021C3	3/1/2000	Risk burn, max feedrate.	No		1	N			23	0.0241	18	0.0260	8	0.0502		14	0.0334	14	0.0334		
43	2001C3	9/1/1997	Risk burn; normal operating conditions	No		1	NA	Data in lieu			0.4100		0.4085		0.4867		0	0.4351	0	0.4351		
44	2012C2	5/1/1999	Risk burn	No		1	NA	Data in lieu		98	0.0075	98	0.0049	99	0.0054		98	0.0059	98	0.0059		
45	232C10	9/1/1997	Trial burn; low temp "worst-case" organic destruction	No		1	NA	Data in lieu		100	0.0212	100	0.0163	100	0.0177		100	0.0184	100	0.0184		
46	232C11	9/1/1997	Trial burn; max waste feed, max prod rate	No		1	NA	Data in lieu		92	0.0028	100	0.0047	85	0.0015		95	0.0030	95	0.0030		
47	721C12	7/1/1998	Risk burn; typical feedrate	No		1	NA	Data in lieu		17	0.0043	16	0.0044	21	0.0045		18	0.0044	18	0.0044		
48	759C3	7/1/1998	Risk burn	No		1	NA	Data in lieu		100	0.0050	99	0.0056	100	0.0034		99	0.0047	99	0.0047		
49	761C5	12/1/1998	Risk burn	No		1	NA	Data in lieu		79	0.0041	91	0.0013	99	0.0017		86	0.0023	86	0.0023		
50	767C8	1/1/1998	Risk burn, worst case cond, max waste feed and max prod	No		1	NA	Data in lieu		0	0.0000	0	0.0000	0	0.0000		0	0.0000	0	0.0000		
51	767C8	1/1/1998	Risk burn, worst case cond, max waste feed and max prod	No		1	NA	Data in lieu		0	0.0000	0	0.0000	0	0.0000		0	0.0000	0	0.0000		
52	767C8	1/1/1998	Risk burn, worst case cond, max waste feed and max prod	No		1	NA	Data in lieu		0	0.0000	0	0.0000	0	0.0000		0	0.0000	0	0.0000		
53	767C8	1/1/1998	Risk burn, worst case cond, max waste feed and max prod	No		1	NA	Data in lieu		0	0.0000	0	0.0000	0	0.0000		0	0.0000	0	0.0000		
54	822C2	7/1/1997	Risk burn, max waste feed	No		1	NA	Data in lieu		57	0.0465	57	0.0198	61	0.0250		58	0.0305	58	0.0305		
55	843C3	2/1/1998	Risk burn, slightly above normal operating conditions	No		1	NA	Data in lieu		88	0.0041	94	0.0051	98	0.0042		93	0.0044	93	0.0044		
56	843C3	2/1/1998	Risk burn, slightly above normal operating conditions	No		1	NA	Data in lieu		88	0.0041	94	0.0051	98	0.0042		93	0.0044	93	0.0044		
57	911C13	11/1/2001	CoC; HHC waste fuel low range	No		1	NA	Data in lieu		100	0.0242	100	0.0234	100	0.0798		100	0.0425	100	0.0425		
58	911C13	11/1/2001	CoC; HHC waste fuel low range	No		1	NA	Data in lieu		100	0.0242	100	0.0234	100	0.0798		100	0.0425	100	0.0425		
59	2020C3	3/1/2000	Risk burn, normal operating cond of liq feed and comb temp					1 N Wet		6	0.09	0	0.14	0	0.13		1	0.12				
60			shutdown or l																			
61	753C10	3/1/1998	Risk burn -- normal operating conditions	R3		1	N			1	0.0105	7	0.0071	12		0.0066	6	0.0081	6	0.0088		
62	849C5	6/1/1998	Risk burn, slightly above normal conditions	No		1	N			7	0.0150	9	0.0129	17	0.0077		10	0.0118	10	0.0118		

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2	Source ID	Cond ID	Facility Information		Combustor Information			APCS	Dry	Waste	Hazardous	Munitions	Chemical	Mixed	Comm	Gov't
3	Number	Number	Facility Name	City	Combustor	Combustor	Combustor	Detailed	vs Wet	Heat	Wastes	Popping	Weapons	Radioactive	vs Onsite	
4					Category	Class	Type	Acronym	APCS	Boiler		Furnace	Demil	Waste		
63	910	910C3	Union Carbide Corporation	Texas City	Liquid boiler	Liquid-fired boiler	Liquid-fired	None	None	No	Liq	No	No	No	OS	No

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	2	20	21	28	29	30	31	32	33	34	35	36	37	38	55	56	57	58	59	60		
2	Cond ID	Condition Information			Dry	SB	DF Emissions			D/F Stack Emission (ng TEQ/dscm)												
3	Number	Cond	Cond Description		APCD	Run	Camp	Rating	Rating	Comments	R1	R2	R3	R	SB	Cond Avg	No SB					
4		Dates			Temp RA		No				ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss	ND	Cond Avg
63	910C3	5/1/1999	Risk burn, max liquid waste			R3		1	N		33	0.0069	48	0.0054	41		0.0038	40	0.0053	40	0.0061	