

US EPA ARCHIVE DOCUMENT

Data Summary: HCl Production Furnaces, Low Volatile Metals

	A	B	C	D	E	F	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 Onsite	Gov't
3	Number	Number	Facility Name	City	Combustor Category	Combustor Class							
4													
5													
6	2018	2018C2	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/VS/Q/HCLABS/VS/CLWS	Liq	No	No	No	OS	No
7	2018	2018C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/VS/Q/HCLABS/VS/CLWS	Liq	No	No	No	OS	No
8	2022	2022C3	PPG Industries, Inc.	Lake Charles	HCl production furnace	HCl Production Furnace	WHB, WS	Liq	No	No	No	OS	No
9	2022	2022C4	PPG Industries, Inc.	Lake Charles	HCl production furnace	HCl Production Furnace	WHB, WS	Liq	No	No	No	OS	No
10	788	788C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	MGCLREC/VS/SEP/DM	Liq	No	No	No	OS	No
11	845	845C1	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/Q/HCLABS/VS/WS	Liq	No	No	No	OS	No
12	845	845C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/Q/HCLABS/VS/WS	Liq	No	No	No	OS	No
13	851	851C1	The Dow Chemical Company	Pittsburg	HCl production furnace	HCl Production Furnace	Q/HCIABS/WS	Liq	No	No	No	OS	No
14	851	851C3	The Dow Chemical Company	Pittsburg	HCl production furnace	HCl Production Furnace	Q/HCIABS/WS	Liq	No	No	No	OS	No
15	853	853C10	Dupont Dow Elastomers	LaPlace	HCl production furnace	HCl Production Furnace	WQ/3STGHCIABS/S/CWS	Liq	No	No	No	OS	No
16	853	853C11	Dupont Dow Elastomers	LaPlace	HCl production furnace	HCl Production Furnace	WQ/3STGHCIABS/S/CWS	Liq	No	No	No	OS	No
17													
18													
19	Sources Shutdown or No Longer Burning Hazardous Wastes												
20	2017	2017C1	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/Q/HCIABS/VE/CLWS	Liq	No	No	No	OS	No
21	2017A	2017C1	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/Q/HCIABS/VE/CLWS	Liq	No	No	No	OS	No
22	2017	2017C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/Q/HCIABS/VE/CLWS	Liq	No	No	No	OS	No
23	2017A	2017C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/Q/HCIABS/VE/CLWS	Liq	No	No	No	OS	No
24	2020	2020C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/VS/WS	Liq	No	No	No	OS	No
25	786	786C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	DQ/HCLABS/VS/CLWS	Liq	No	No	No	OS	No
26	842	842C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/HCLABS/WS	Liq	No	No	No	OS	No
27	844	844C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/HCLABS/WS	Liq	No	No	No	OS	No
28	844	844C4	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/HCLABS/WS	Liq	No	No	No	OS	No
29	848	848C3	Dow Chemical Company	Freeport	HCl production furnace	HCl Production Furnace	WHB/HCIABS/CWS	Liq	No	No	No	OS	No

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	B	T	U			V	W	X	Y	Z	AA	AD	AE	AF			AG	AH	AI	AJ	AK	AL	BE	BF
2	Cond ID	Condition Information					Spiking			Tier			LVM Emissions			LVM Stack Emission (ug/dscm) - ND in %								
3	Number	Cond	Cond Description			Cr	As	Be	Cr	As	Be	Camp	Rating	Rating Comments		R1	R2		R3		Cond Avg			
4		Dates									Number				ND	Emiss	ND	Emiss	ND	Emiss	ND	Emiss		
5																								
6	2018C2	4/1/1998	Risk burn, normal operating conditions			N					1	N				0.6		0.5		0.7		0.6		
7	2018C3	1/1/1997	COC burn, max waste feed and production rate, max comb ten	Y	N	N	3	1	1		2	NA	Only Cr measured in stack gas			12.3		0.5		20.3		11.0		
8	2022C3	5/1/2001	Normal comb temp			N					1	N			1	5.3	1	4.8	1	4.4	1	4.8		
9	2022C4	5/1/2001	Risk burn, normal op cond, PCB containing material			N					1	N			1	3.8	1	3.9	2	2.0	2	3.2		
10	788C3	11/1/1997	Risk burn, max liq waste feed rate, normal comb temp			N					1	N			7	5.1	23	1.6	11	3.2	11	3.3		
11	845C1	4/1/1998	Trial burn, max waste feed rate, max ash and Cr	Y				3	1	1	1	NA	Only Cr measured in stack gas			3.6		3.1		6.4		4.4		
12	845C3	4/1/1998	Risk burn, above normal feed of liq waste, normal comb temp			N					1	N			32	1.0	94	1.6	39	0.8	60	1.1		
13	851C1	10/31/1995	Trial burn, max comb chamber temp	Y				3	3	1	1	CT				20.9		20.2	1	43.5	1	28.2		
14	851C3	9/30/1995	Risk burn, normal operating conditions			N					1	N				4.1		3.8		4.2		4.0		
15	853C10	4/1/1997	Risk burn, normal operating cond			N					1	N			3	8.9	1	21.3	2	18.3	2	16.1		
16	853C11	4/1/1997	Trial burn test	Y				3	1	1	1	NA	Only Cr measured in stack gas			253.3		482.3		244.1		326.5		
17																								
18																								
19	shutdown or																							
20	2017C1	2/1/1998	Trial burn, max prod rate, min APCS, max waste feed rate	Y				3	1	1	1	NA	Only Cr measured in stack gas			5.7		5.4		5.5		5.5		
21	2017C1	2/1/1998	Trial burn, max prod rate, min APCS, max waste feed rate	Y				3	1	1	1	NA	Only Cr measured in stack gas; data i			5.7		5.4		5.5		5.5		
22	2017C3	2/1/1998	Risk burn, normal operating conditions			N					1	N				0.0		0.0		0.4		0.1		
23	2017C3	2/1/1998	Risk burn, normal operating conditions			N					1	NA	Data in lieu			0.0		0.0		0.4		0.1		
24	2020C3	3/1/2000	Risk burn, normal operating cond of liq feed and comb temp			N					1	N	Liq boiler		1	28.1	1	32.0	1	27.7	1	29.3		
25	786C3	8/1/1998	Risk burn; normal operating conditions			N					1	N			35	4.4	23	5.7	26	4.4	28	4.8		
26	842C3	5/1/1998	Risk burn, normal operating conditions			N					1	N			0	100.1	2	16.9	4	10.7		42.6		
27	844C3	7/1/1998	Risk burn, slightly above normal liq waste feed rate, normal coi	N							1	N				1.4		2.1		1.0		1.5		
28	844C4	4/1/1997	COC burn, max waste feed and production rate, max comb ten	Y					3		2	NA	Only Cr measured in stack gas			22.6		8.9		1.6		11.0		
29	848C3	6/1/1998	Risk burn, above normal liq waste feed rate, normal comb tem	N							1	N			29	0.6	40	0.8	10	1.3	12	0.9		

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	B	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	CD	CE	DD	DE	DI	DJ	DK	DL	DM	DN	DO	EH	EI	
2	Cond ID	LVM SRE			LVM SRE (%)				LVM Feedrate, Cond Avg (ug/dscm)			LVM Total Feedrate (ug/dscm) - By Runs												
3	Number	Campaign	Rating	Comment	R1	R2	R3	Cond Avg	HW	Spike	Total	ND	R1	ND	R2	ND	R3	ND	Cond Avg					
4		Number																						
5																								
6	2018C2	1 NA	Normal	>	95.66 >	90.98 >	85.80 >	92.57	12		12	24	17	43	10	48	9	35					12	
7	2018C3																							
8	2022C3	1 NA	Normal				>	-1,506.31	0		0												0	
9	2022C4																							
10	788C3	1 NA	Normal	>	84.03 >	96.03 >	90.41 >	90.62	83		83	61	82	53	85	59	82	58					83	
11	845C1	1 CT		>	99.30 >	99.37 >	98.73 >	99.13	5	504	509	1	515	1	500	1	512	1					509	
12	845C3	1 NA	Normal	>	99.61 >	93.50 >	93.84 >	98.92	96		96	2	222	53	36	64	31	15					96	
13	851C1	1 CT			98.97	98.98 >	97.71 >	98.91	355	1,619	1,975	0	2,045	0	1,992	0	1,897	0					1,975	
14	851C3	1 NA	Normal		97.84	98.81	96.09	98.04	209		209	0	194	0	323	0	111	0					209	
15	853C10	1 NA	Normal	>	94.43 >	86.97 >	73.55 >	87.65	146		146	9	176	9	178	18	84	11					146	
16	853C11	1 CT			94.95	90.01	94.99	93.34	186	4,740	4,931		5,038		4,854		4,902						4,931	
17																								
18																								
19	shutdown or																							
20	2017C1	1 CT			99.71	99.72	99.71	99.71	28	1,893	1,922		1,980		1,915		1,908						1,922	
21	2017C1	1 NA	Data in lieu		99.71	99.72	99.71	99.71	28	1,893	1,922		1,980		1,915		1,908						1,922	
22	2017C3	1 NA	Normal	>	99.92 >	99.82 >	96.18 >	98.74	14		14	3	12	2	17	2	13	2					14	
23	2017C3	1 NA	Data in lieu	>	99.92 >	99.82 >	96.18 >	98.74	14		14	3	12	2	17	2	13	2					14	
24	2020C3	1 NA	Normal	>	78.51 >	74.79 >	70.47 >	75.04	121		121	3	135	3	131	3	97	3					121	
25	786C3	1 NA	Normal	>	91.62 >	85.22 >	92.46 >	90.31	54		54	7	57	9	42	7	63	7					54	
26	842C3	1 NA	Normal	>	-171.52 >	62.76 >	74.79 >	-2.28	46		46	9	41	9	50	8	46	9					46	
27	844C3	1 NA	Normal	>	83.43 >	80.98 >	78.74 >	81.27	9		10	14	10	11	13	24	6	15					10	
28	844C4	2 CT			98.29	99.20	99.84	99.03	32	1,126	1,159		1,342		1,132		1,002						1,159	
29	848C3	1 NA	Normal	>	72.47 >	42.05 >	36.27 >	51.55	3		3	38	3	46	3	39	3	41					3	