

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	3017
4	EPA ID No.	ILD005083316
5	Facility Name	McWhorter Cargill Chemical Products
6	Facility Location	
7	City	Carpentersville
8	State	Illinois
9	Unit ID Name/No.	Hazardous Waste Incinerator
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Liquid injection
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	None?
18	APCS General Class	
19	APCS Characteristics	
20	Hazardous Wastes	Liq
21	Haz Waste Description	By-product of the manufacture of synthetic resin. Consisting of "waters of reaction"
22	Supplemental Fuel	
23		
24	Stack Characteristics	
25	Diameter (ft)	1.79
26	Height (ft)	
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	363
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Cond Description	
2		
3	3017C1	
4		
5	Report Name/Date	Trial Burn Report, February 1988
6	Report Prepare	Radian Corporation
7	Testing Firm	Radian Corporation
8	Testing Dates	February 25-28, 1988
9	Cond Dates	Feb-98
10	Condition Descr	Trial burn, max feedrate
11	Content	PM, DRE, HCl

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Stack Gas Emissions 1																	
2																		
3		Comments	Units			7% O2												
4																		
5																		
6	3017C1	Trial Burn				R1	R2	R3	R4	R5	R6	Cond	Avg					
7																		
8	PM	E1	gr/dscf	y		0.0032		0.0048		0.0018								0.0033
9	CO (RA)	E1	ppmv	y		8.7	10.4	9.2	8.6	7.9	7.5							8.72
10	CO (MHRA)	E1	ppmv	y		10.5	10.5	9.5	8.6	8.6	7.6							9.22
11	HC (RA)	E1	ppmv	y		0.2	0.3	0.3	0.3	0.43	0.33							0.30
12	HC (MHRA)	E1	ppmv	y		0.25	0.33	0.33	0.25	0.57	0.33							0.34
13																		
14	HCl		lb/hr				0.0066			0.0							0.0025	
15	Cl2		lb/hr															
16																		
17	POHC	Formaldehyde																
18	POHC Feedrate		lb/hr			64.8		45.1		46.6								
19	Emission Rate	E2	lb/hr			1.30E-03		1.19E-03		2.58E-03								
20	DRE	E2	%			99.9996		99.9997		99.9993								
21																		
22	POHC	Formic Acid																
23	POHC Feedrate		lb/hr				17.4		16.80		20.7							
24	Emission Rate	E2	lb/hr			nd	8.15E-04	nd	6.83E-04	nd	6.61E-04							
25	DRE	E2	%				99.9947		99.9957		99.9965							
26																		
27	Sampling Train	PM, HCl/Cl2	E1															
28	Stack Gas Flowrate		dscfm			1450	1450	1383	1417	1433	1433							1428
29	O2		%			6.27	4.33	5.97	4.1	7.65	3.93							5
30	Moisture		%			28.3	32.4	32.8	33.0	32.6	33.9							32
31	Temperature		°F			360	365	374	354.0	348	378							363
32																		
33	Sampling Train	DRE	E2															
34	Stack Gas Flowrate		dscfm			1517	1517	1450	1500	1517	1500							
35	O2		%															
36	Moisture		%															
37	Temperature		°F															
38																		
39	HCl	E1	ppmv	y			0.68		0.35		0.26							0.43
40	Cl2		ppmv	y														
41	Total Chlorine	E1	ppmv	y			0.68		0.35		0.26							0.43

	B	Y	Z	AA	AB	AC	AD	AE	AF
1	Feedstream 1								
2									
3									
4	3017C1		R4		R5		R6		Cond Avg
5	Feedstream Number		F2		F2		F2		F2
6	Feed Class		Total		Total		Total		Total
7	Feed Class 2		Total		Total		Total		Total
8	Feedstream Description		Total		Total		Total		Total
9	Feed Rate								
10	Feed Rate								
11	Density								
12	Thermal Feedrate								
13	Heating Value								
14	Ash								
15	Chlorine								
16	Stack Gas Flowrate								
17	Oxygen								
18	Estimated Firing Rate								
19									
20									
21									
22									
23	Feedrate MTEC Calculations								
24	Ash	100	43.3	100	53.5	100	43.3	100	45.6
25	Chlorine	100	260.9	100	326.0	100	254.9	100	275.0

	B	C	D	E	F	G	H
1	Process Information						
2							
3	3017C1			R1	R2	R3	R4
4							
5	Oxidizer Chamber Temp	°F		2000	2000	2000	1984