

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	484
4	EPA ID No.	ARD089234884
5	Facility Name	ARKANSAS EASTMAN
6	Facility Location	
7	City	Batesville
8	State	AR
9	Unit ID Name/No.	NO. 2 INCINERATOR
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Liquid injection
14	Combustor Characteristics	John Zink design
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	WHB/QT/VS/DM
18	APCS General Class	WHB, WQ, HEWS
19	APCS Characteristics	Waste heat boiler, quench, venturi scrubber (John Zink variable throat venturi), demister
20	Hazardous Wastes	Liq
21	Haz Waste Description	
22	Supplemental Fuel	Oil
23		
24	Stack Characteristics	
25	Diameter (ft)	3.0
26	Height (ft)	30.0
27	Gas Velocity (ft/sec)	13.2
28	Gas Temperature (°F)	149.6
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	484C1	
4		
5	Report Name/Date	Trial Burn Report for Arkansas Eastman Company No. 2 Incinerator, Batesville, Arkansas, July 1987
6	Report Prepare	Unknown
7	Testing Firm	Unknown
8	Cond Descr	Trial burn, DEMONSTRATE DRE FOR AQUEOUS WASTE
9	Testing Dates	
10	Cond Dates	Jul-87
11		
12	484C2	
13		
14	Report Name/Date	Trial Burn Report for Arkansas Eastman Company No. 2 Incinerator, Batesville, Arkansas, July 1987
15	Report Prepare	Unknown
16	Testing Firm	Unknown
17	Cond Descr	Trial burn, DEMONSTRATE PM REMOVAL FOR WASTES W/DISSOLVED SALTS
18	Testing Dates	
19	Cond Dates	Jul-87
20		
21	484C3	
22		
23	Report Name/Date	Trial Burn Report for Arkansas Eastman Company No. 2 Incinerator, Batesville, Arkansas, July 1987
24	Report Prepare	Unknown
25	Testing Firm	Unknown
26	Cond Descr	Trial burn, DEMONSTRATE DRE AND HCL REMOVAL FOR HIGHLY CHLORINATED WASTE
27	Testing Dates	
28	Cond Dates	Jul-87

	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Stack Gas Emissions 2													
2														
3														
4														
5														
6	484C1					R1		R2		R3		R4		Cond Avg
7														
8	CO (RA)	E1	ppmv	y		454.1		326.7		521.7				434.1
9														
10	Sampling Train	DRE	E1											
11	Stack Gas Flowrate		dscfm			12111.0		12847.0		10340.0				
12	O2		%			13.2		13.2		12.6				
13	Moisture		%			16.6		19.2		18.9				
14	Temperature		°F			129.0		129.5		129.7				
15														
16	1,2-dichloroethane	DRE	%			99.9992		99.9989		99.9989				
17	Carbon Tetrachloride	DRE	%			99.9977		99.9965		99.9958				
18	Toluene	DRE	%			99.9996		99.9993		99.9995				
19														
20	484C2					R1		R2		R3		R4		Cond Avg
21														
22	PM	E1	gr/dscf	y		0.0620		0.0710		0.0600				0.0643
23	CO (RA)	E1	ppmv	y		71.7		83.7		82.7				79.4
24														
25	Sampling Train		Particuli:	E1										
26	Stack Gas Flowrate		dscfm			12508.0		12044.0		11667.0				
27	O2		%			12.8		12.3		12.2				
28	Moisture		%			21.6		22.6		22.7				
29	Temperature		°F			136.4		135.5		139.4				
30														
31	484C3					R1		R2		R3		R4		Cond Avg
32														
33	CO (RA)	E1	ppmv	y		32.1		35.0		18.3		21.2		26.6
34	HCl	E1	ppmv	y		143.5		144.0		158.2		185.5		157.8
35	Total Chlorine	E1	ppmv	y		143.5		144.0		158.2		185.5		157.8
36														
37	Sampling Train	HCl	E1											
38	Stack Gas Flowrate		dscfm			11701.0		11318.0		10851.0		10848.0		
39	O2		%			11.4		11.4		11.8		12.4		
40	Moisture		%			28.2		29.5		30.0		30.2		
41	Temperature		°F			148.2		149.2		150.3		150.6		
42														
43	1,2-dichloroethane	DRE	%			99.9993				99.9997		99.9996		
44	Carbon Tetrachloride	DRE	%			99.9993				99.9997		99.9998		
45	Toluene	DRE	%			99.9998				99.9999		99.9997		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	
1	Feedstream 2																											
2																												
3																												
4																												
5																												
6	484C1		R1		R2		R3		R1		R2		R3		R4		R1		R2		R3		R4		Cond Avg			
7																												
8	Feedstream Number		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3		F3		F3			
9	Feed Class		Oil		Oil		Oil		Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total		Total			
10	Feed Class 2		MF		MF		MF		HW		HW		HW		HW		Total		Total		Total		Total		Total			
11	Feedstream Description		Aux fuel		Aux fuel		Aux fuel		Liq waste		Liq waste		Liq waste		Liq waste		Total		Total		Total		Total		Total			
12	Feedrate	lb/hr	966		936		978		4554		4488		4488															
13	Heating value	Btu/lb	19900		19800		19800																					
14	Thermal Feedrate	MMBtu/hr	19.2		18.5		19.4																					
15	Ash	wt %	0.03		0.02		0.04																					
16	Chlorine	ppmw	5000		2000		2000																					
17																												
18																												
19	484C2		R1		R2		R3		R1		R2		R3		R4		R1		R2		R3		R4		Cond Avg			
20																												
21	Feedstream Number		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3		F3		F3			
22	Feed Class		Oil		Oil		Oil		Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total		Total			
23	Feed Class 2		MF		MF		MF		HW		HW		HW		HW		Total		Total		Total		Total		Total			
24	Feedstream Description		Aux fuel		Aux fuel		Aux fuel		Liq waste		Liq waste		Liq waste		Liq waste		Total		Total		Total		Total		Total			
25	Feedrate	lb/hr	1524		1440		1308		5448		5412		5442															
26	Heating value	Btu/lb	19800		19800		19800																					
27	Thermal Feedrate	MMBtu/hr	30.2		28.5		25.9																					
28	Ash	wt %	0.02		0.01		0.01																					
29	Chlorine	ppmw	3000		2000		3000																					
30																												
31																												
32	Stack gas flowrate		11701		11318		10851		11701		11318		10851				11701		11318		10851				11290			
33	Oxygen		11.4		11.4		11.8		11.4		11.4		11.8				11.4		11.4		11.8				11.533333			
34																												
35	Estimated Firing Rate	MMBtu/hr															35.66		34.49		31.69				33.93			
36																												
37	Feedrate MTEC Calcs																											
38	Ash	mg/dscm	10.2		5.0		4.9		0.0		0.0		0.0				10.2		5.0		4.9				6.7			
39																												
40	484C3		R1		R2		R3		R1		R2		R3		R4		R1		R2		R3		R4		Cond Avg			
41																												
42	Feedstream Number								F1		F1		F1		F1		F3		F3		F3		F3		F3			
43	Feed Class								Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total		Total			
44	Feed Class 2								HW		HW		HW		HW		Total		Total		Total		Total		Total			
45	Feedstream Description								Liq waste								Total											
46	Feedrate	lb/hr							4260		4278		4218		4212													
47	Heating value	Btu/lb																										
48	Ash	wt %																										
49	Chlorine	ppmw							253521.1		253389.4		253437.6		253323.8													
50																												
51	Gas Flowrate	dscfm							11701		11318		10851		10848		11701		11318		10851				11290			
52	Oxygen	%							11.4		11.4		11.8		12.4		11.4		11.4		11.8				11.533333			
53																												
54	Estimated Firing Rate	MMBtu/hr															35.66		34.49		31.69				33.93			
55																												
56	Feedrate MTEC																											
57	Chlorine	ug/dscm							35989494		37345180		40083563		42811702		35989494		37345180		40083563		42811702		39057485			

	C	D	E	F	G	H
1	Process Information 2					
2						
3	484C1					
4						
5	Combustion Temperature	F	1300	1300	1300	
6	VS Temperature	F	142	145	145	
7	Quench Temperature	F	480	480	485	
8	VS Pressure Drop	in H2O	38	38	38	
9						
10	484C2					
11						
12	Combustion Temperature	F	1300	1300	1300	
13	APCD Temperature	F	144	143	145	
14	APCD Temperature	F	526	538	520	
15	Pressure Drop	in H2O	45	45	45	
16						
17	484C3					
18						
19	Combustion Temperature	F	1300	1300	1300	1300
20	APCD Temperature	F	165	165	168	169
21	APCD Temperature	F	500	500	500	500
22	Pressure Drop	in H2O	50	50	50	50