

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	460
4	EPA ID No.	ILD065237851
5	Facility Name	AKZO CHEMIE AMERICA
6	Facility Location	
7	City	MORRIS
8	State	IL
9	Unit ID Name/No.	
10	Other Sister Facilities	None
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	
22	Supplemental Fuel	?
23		
24	Stack Characteristics	
25	Diameter (ft)	5.0
26	Height (ft)	90.0
27	Gas Velocity (ft/sec)	11.9
28	Gas Temperature (°F)	1824.8
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	460C1	
4		
5	Report Name/Date	POHC Trial Burn Stack Emission Test Series John Zink Thermal Oxidizer, Akzo Chemie, America, Morris, Illinois, Prepared by ARI Environmental, Project # 432-01, September 18-20, 1984
6	Report Prepare	ARI
7	Testing Firm	ARI
8	Cond Descr	?
9	Testing Dates	September 18, 1984
10	Cond Dates	Sep-84
11		
12		
13	460C2	
14		
15	Report Name/Date	POHC Trial Burn Stack Emission Test Series John Zink Thermal Oxidizer, Akzo Chemie, America, Morris, Illinois, Prepared by ARI Environmental, Project # 432-01, September 18-20, 1984
16	Report Prepare	ARI
17	Testing Firm	ARI
18	Cond Descr	?
19	Testing Dates	September 19, 1984
20	Cond Dates	Sep-84
21		
22	460C3	
23		
24	Report Name/Date	POHC Trial Burn Stack Emission Test Series John Zink Thermal Oxidizer, Akzo Chemie, America, Morris, Illinois, Prepared by ARI Environmental, Project # 432-01, September 18-20, 1984
25	Report Prepare	ARI
26	Testing Firm	ARI
27	Cond Descr	?
28	Testing Dates	September 20, 1984
29	Cond Dates	Sep-84

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions 2											
2												
3												
4	460C1					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.0372		0.0298		0.0522		0.0397
7	CO (RA)	E1	ppmv	y		420.0		179.5		225.0		274.8
8	HC (RA)	E1	ppmv	y		3.1		5.6		4.6		4.4
9												
10	Sampling Train	Particulate	E1									
11	Stack Gas Flowrate		dscfm			6727.2		7604.6		7032.9		
12	O2		%			11.0		11.5		11.5		
13	Moisture		%			26.6		26.4		26.3		
14	Temperature		°F			1274.8		1428.5		1426.9		
15												
16	Formaldehyde	DRE	%			99.996		99.992		99.998		
17												
18	460C2					R1		R2		R3		Cond Avg
19												
20	PM	E1	gr/dscf	y		0.0481		0.0404		0.0396		0.0427
21	CO (RA)	E1	ppmv	y		1.1		0.4		1.6		1.0
22	HC (RA)	E1	ppmv	y		8.1		11.4		9.9		9.8
23												
24	Sampling Train	Particulate	E1									
25	Stack Gas Flowrate		dscfm			7939.6		7976.8		7987.5		
26	O2		%			10.6		10.6		10.5		
27	Moisture		%			27.1		27.1		27.1		
28	Temperature		°F			1698.7		1694.2		1678.3		
29												
30	Formaldehyde	DRE	%			99.992		99.993		99.992		
31												
32	460C3					R1		R2		R3		Cond Avg
33												
34	PM	E1	gr/dscf	y		0.0413		0.0401		0.0432		0.0415
35	CO (RA)	E1	ppmv	y		2.2		8.2		10.6		7.0
36	HC (RA)	E1	ppmv	y		10.9		15.3		14.3		13.5
37												
38	Sampling Train	Particulate	E1									
39	Stack Gas Flowrate		dscfm			6700.0		7413.3		7742.0		
40	O2		%			7.5		7.5		7.4		
41	Moisture		%			30.6		31.4		31.5		
42	Temperature		°F			1836.9		1824.8		1812.7		
43												
44	Formaldehyde	DRE	%			99.995		99.993		99.993		

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Feedstream 2																		
2																			
3																			
4	460C1				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
5																			
6	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2
7	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total
8	Feed Class 2				HW		HW		HW		HW		Total		Total		Total		Total
9	Feedstream Description				Waste water		Waste water		Waste water		Waste water		Total		Total		Total		Total
10	Feedrate	lb/hr			2520		2540		2510										
11	Heating value	Btu/lb																	
12	Ash	wt %			0.01		0.03		0.03										
13																			
14	Feedrate MTECs																		
15	Ash	mg/dscm			14.0		39.5		42.2		31.9		14.0		39.5		42.2		31.9
16																			
17																			
18	460C2				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
19																			
20	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2
21	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total
22	Feed Class 2				HW		HW		HW		HW		Total		Total		Total		Total
23	Feedstream Description				Waste water		Waste water		Waste water		Waste water		Total		Total		Total		Total
24	Feedrate	lb/hr			3000		3000		3000										
25	Heating value	Btu/lb																	
26	Ash	wt %			0.02		0.02		0.03										
27																			
28	Feedrate MTECs																		
29	Ash	mg/dscm			27.2		27.1		40.2		31.5		27.2		27.1		40.2		31.5
30																			
31																			
32																			
33	460C3				R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
34																			
35	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2
36	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Total		Total		Total		Total
37	Feed Class 2				HW		HW		HW		HW		Total		Total		Total		Total
38	Feedstream Description				Waste water		Waste water		Waste water		Waste water		Total		Total		Total		Total
39	Feedrate	lb/hr			4706		4692		4708										
40	Heating value	Btu/lb																	
41	Ash	wt %			0.03		0.03		0.02										
42																			
43	Feedrate MTECs																		
44	Ash	mg/dscm			58.4		52.6		33.5		48.2		58.4		52.6		33.5		48.2