

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	465
4	EPA ID No.	VAD065385296
5	Facility Name	ALLIED FIBERS
6	Facility Location	
7	City	HOPEWELL
8	State	VA
9	Unit ID Name/No.	LIQUID 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	QT/S
18	APCS General Class	WQ, LEWS
19	APCS Characteristics	Quench, scrubber
20	Hazardous Wastes	Liq
21	Haz Waste Description	
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	4.5
26	Height (ft)	100.0
27	Gas Velocity (ft/sec)	3.0
28	Gas Temperature (°F)	177.0
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	465C1	
4		
5	Report Name/Date	Stationary Source Sampling Report, Reference No. 6036, Allied Fibers, Hopewell, Virginia, October 12-14, 1988
6	Report Prepare	Entropy
7	Testing Firm	Entropy
8	Cond Descr	MAXIMUM FEED RATE
9	Testing Dates	October 12, 1988
10	Cond Dates	Oct-88
11		
12	465C2	
13		
14	Report Name/Date	Stationary Source Sampling Report, Reference No. 6036, Allied Fibers, Hopewell, Virginia, October 12-14, 1988
15	Report Prepare	Entropy
16	Testing Firm	Entropy
17	Cond Descr	LOW FLOW
18	Testing Dates	October 13, 1988
19	Cond Dates	Oct-88
20		
21	465C3	
22		
23	Report Name/Date	Stationary Source Sampling Report, Reference No. 6036, Allied Fibers, Hopewell, Virginia, October 12-14, 1988
24	Report Prepare	Entropy
25	Testing Firm	Entropy
26	Cond Descr	HIGH HCL
27	Testing Dates	October 14, 1988
28	Cond Dates	Oct-88

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions 2											
2												
3												
4	465C1					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.1180		0.0548		0.0618		0.0782
7	HCl	E1	ppmv	y		3.0		0.2		0.4		1.2
8	Total Chlorine	E1	ppmv	y		3.0		0.2		0.4		1.2
9												
10	Sampling Train	Halogens	E1									
11	Stack Gas Flowrate		dscfm			5203.0		4958.0		5158.0		
12	O2		%			7.9		7.9		7.9		
13	Moisture		%									
14	Temperature		°F									
15												
16	1,2-Dichloropropane	DRE	%			99.9981		99.9921		99.9999		
17	Tetrachloroethene	DRE	%			99.9985		99.995		99.9998		
18												
19	465C2					R1		R2		R3		Cond Avg
20												
21	PM	E1	gr/dscf	y		0.0390		0.0297		0.0312		0.0333
22	HCl	E1	ppmv	y		0.4		0.7		0.4		0.5
23	Total Chlorine	E1	ppmv	y		0.4		0.7		0.4		0.5
24												
25	Sampling Train	PM/HCl	E1									
26	Stack Gas Flowrate		dscfm			4988.0		5333.0		4975.0		
27	O2		%			7.4		7.4		7.4		
28	Moisture		%									
29	Temperature		°F									
30												
31	465C3					R1		R2		R3		Cond Avg
32												
33	HCl	E1	ppmv	y		4.8		0.2		0.4		1.8
34	Total Chlorine	E1	ppmv	y		4.8		0.2		0.4		1.8
35												
36	Sampling Train	HCl	E1									
37	Stack Gas Flowrate		dscfm			5135.0		5020.0		4936.0		
38	O2		%			9.2		9.2		9.2		
39	Moisture		%									
40	Temperature		°F									
41												
42	1,2-Dichloropropane	DRE	%			99.9999		99.9998		99.9999		
43	Tetrachloroethene	DRE	%			99.9998		99.9996		99.9994		

	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																			
1	Feedstream 2																																											
2																																												
3																																												
4	465C1		R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2																					
5																																												
6	Feedstream Number		F1		F1		F1		F2		F2		F2																															
7	Feed Class		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW																															
8	Feed Class 2																																											
9	Feedstream Description		Composite Feed		Composite Feed		Composite Feed		Aqueous		Aqueous		Aqueous										Vent Feed		Vent Feed																			
10	Feedrate	lb/hr	1251		1209		1265		1937		1930		1961																															
11	Heating value	Btu/lb	6220		2060		1870		241		422		497																															
12	Ash	wt %	0.161		0.018		0.022		0.006		0.0029		0.0016																															
13	Chlorine	ppmw	34852		22167		22292		527		1161		811																															
14	Thermal Feedrate	MMBtu/hr	7.8		2.5		2.4		0.5		0.8		1.0																															
15	Gas flowrate	dscfm	5203		4958		5158		5203		4958		5158																															
16	Oxygen	%	8		8		8		8		8		8																															
17																																												
18	Estimated Firing Rate	MMBtu/hr																																										
19																																												
20	<i>Feedrate MTECS</i>																																											
21	Ash	mg/dscm	103.5		11.7		14.4		6.0		3.0		1.6		109.5		14.8		16.1																									
22	Chlorine	ug/dscm	2399956		1544554		1562222		56146		129097		88083		2456102		1673651		1650304																									
23																																												
24	465C2		R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2																					
25																																												
26	Feedstream Number		F1		F1		F1		F2		F2		F2										F3		F3																			
27	Feed Class		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW										Gaseous HW		Gaseous HW																			
28	Feed Class 2																																											
29	Feedstream Description		Composite Feed		Composite Feed		Composite Feed		Aqueous		Aqueous		Aqueous										Vent Feed		Vent Feed																			
30	Feedrate	lb/hr	828		795		796		1494		1494		1484																															
31	Heating value	Btu/lb	1840		1520		2090		288		340		429																															
32	Thermal Feedrate	MMBtu/hr	1.5		1.2		1.7		0.4		0.5		0.6																															
33	Ash	wt %	0.016		0.016		0.015		0.0081		0.0095		0.0063																															
34	Chlorine	ppmw	22343		17107		20980		284		242		449																															
35	Chlorine	lb/hr																					71		313																			
36																																												
37	Gas flowrate	dscfm	4988		5333		4975		4988		5333		4975										4988		5333																			
38	Oxygen	%	7		7		7		7		7		7										7		7																			
39																																												
40	Estimated Firing Rate	MMBtu/hr																																										
41																																												
42	<i>Feedrate MTECS</i>																																											
43	Ash	mg/dscm	7.1		6.4		6.4		6.5		7.1		5.0		13.6		13.5		11.4																									
44	Chlorine	ug/dscm	991661		681845		897515		22781		18099		35847		4954287		16853943		17862530				3939844		16153999																			
45																																												
46	465C3		R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2																					
47																																												
48	Feedstream Number		F1		F1		F1		F2		F2		F2										F3		F3																			
49	Feed Class		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW										Gaseous HW		Gaseous HW																			
50	Feed Class 2																																											
51	Feedstream Description		Composite Feed		Composite Feed		Composite Feed		Aqueous		Aqueous		Aqueous										Vent Feed		Vent Feed																			
52	Feedrate	lb/hr							1579		1582		1563																															
53	Heating value	Btu/lb																																										
54	Ash	wt %																																										
55	Chlorine	ppmw							332489		355247		316059																															
56	Chlorine	lb/hr																					451		479																			
57																																												
58	Gas flowrate	dscfm	5135		5020		4936		5135		5020		4936										5135		5020																			
59	Oxygen	%	9		9.2		9.2		9		9.2		9.2										9.2		9.2																			
60																																												

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1	Feedstream 2										
2											
3											
4	465C1		R3		R1		R2		R3		Cond Avg
5											
6	Feedstream Number				F3		F3		F3		F3
7	Feed Class				Total		Total		Total		Total
8	Feed Class 2				Total		Total		Total		Total
9	Feedstream Description		Vent Feed		Total		Total		Total		Total
10	Feedrate										
11	Heating value										
12	Ash										
13	Chlorine										
14	Thermal Feedrate										
15	Gas flowrate				5203		4958		5158		5106
16	Oxygen				8		8		8		8
17											
18	Estimated Firing Rate				21.59		20.62		21.45		21.22
19											
20	<i>Feedrate MTECS</i>										
21	Ash				109.5		14.8		16.1		46.8
22	Chlorine				2456102		1673651		1650304		1926686
23											
24	465C2		R3		R1		R2		R3		Cond Avg
25											
26	Feedstream Number		F3		F4		F4		F4		F4
27	Feed Class		Gaseous HW		Total		Total		Total		Total
28	Feed Class 2				Total		Total		Total		Total
29	Feedstream Description		Vent Feed		Total		Total		Total		Total
30	Feedrate										
31	Heating value										
32	Thermal Feedrate										
33	Ash										
34	Chlorine										
35	Chlorine		306								
36											
37	Gas flowrate		4975		4988		5333		4975		5099
38	Oxygen		7		7		7		7		7
39											
40	Estimated Firing Rate				21.54		23.03		21.48		22.01
41											
42	<i>Feedrate MTECS</i>										
43	Ash				13.6		13.5		11.4		12.8
44	Chlorine		16929169		4954287		16853943		17862530		13223587
45											
46	465C3		R3		R1		R2		R3		Cond Avg
47											
48	Feedstream Number		F3		F4		F4		F4		F4
49	Feed Class		Gaseous HW		Total		Total		Total		Total
50	Feed Class 2				Total		Total		Total		Total
51	Feedstream Description		Vent Feed		Total		Total		Total		Total
52	Feedrate										
53	Heating value										
54	Ash										
55	Chlorine										
56	Chlorine		266								
57											
58	Gas flowrate		4936		5135		5020		4936		5030.3333
59	Oxygen		9.2		9.2		9.2		9.2		9.2
60											

	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	
31	Estimated Firing Rate		MMBtu/hr																							
32																										
33	<i>Feedrate MTECs</i>																									
34	Ash		mg/dscm		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
35	Chlorine		ug/dscm		32432696		35513771		31747972		60293926		65782626		48843034		27861230		30268855							

	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
61	Estimated Firing Rate				19.24		18.81		18.49		18.84
62											
63	<i>Feedrate MTECs</i>										
64	Ash				0.0		0.0		0.0		0.0
65	Chlorine		17095062		60293926		65782626		48843034		58306529