US EPA ARCHIVE DOCUMENT

	B	C
1	**Source Description**	
2		
3	Phase II ID No.	2000
4	EPA ID No.	LAD057117434
5	Facility Name	Georgia Gulf Chemicals and Vinyls, LLC.
6	Facility Location	
7	City	Plaquemine
8	State	LA
9	Unit ID Name/No.	Nebraska Boiler
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired
14	Combustor Characteristics	Watertube boiler. Anderson 2000 A-type package boiler, installed 1991, 190 MMBtu/hr, 130,000 lb/hr superheated steam @ 900 psig
15	Capacity (MMBtu/hr)	190
16	Soot Blowing	Yes
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	NA
20	Hazardous Wastes	Liq, tar
21	Haz Waste Description	Liquid wastes - Distillation bottom tars from the production of phenol/acetone from cumene (K022)
22	Supplemental Fuel	Natural gas, oil
23		Fuel oil
24		
25	Stack Characteristics	
26	Diameter (ft)	6.7
27	Height (ft)	100
28	Gas Velocity (ft/sec)	50.0
29	Gas Temperature (°F)	460
30		
31	Permitting Status	Tier I metals expect Cr+6, Tier III for Cl, Cr+6
32	HWC Burn Status (Date if Terminated)	

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	B	C
1	**Cond Description**	
2		
3	**2000C1**	
4		
5	Report Name/Date	Nebraska Boiler Trial Burn Report, December 1997
6	Report Prepare	Walsh Environmental, Inc.
7	Testing Firm	Walsh Environmental, Inc.
8	Testing Dates	August 25-27, 1997
9	Cond Dates	Aug-97
10	Condition Descr	Trial burn, max waste feed, min comb temp
11	Content	PM, HCl/Cl2, DRE for acetophenone, cumene, phenol
12		
13	**2000C2**	
14		
15	Report Name/Date	Nebraska Boiler Trial Burn Report, December 1997
16	Report Prepare	Walsh Environmental, Inc.
17	Testing Firm	Walsh Environmental, Inc.
18	Testing Dates	August 28 , 1997 - September 2, 1997
19	Cond Dates	Aug-97
20	Condition Descr	Risk burn, normal operating condition
21	Content	DRE, PCDD/PCDF, PM, CO
22		
23	**2000C3**	
24		
25	Report Name/Date	Nebraska Boiler Trial Burn Report, December 1997
26	Report Prepare	Walsh Environmental, Inc.
27	Testing Firm	Walsh Environmental, Inc.
28	Testing Dates	September 3-4, 1997
29	Cond Dates	Sep-97
30	Condition Descr	Trial burn, lower comb temp, DRE
31	Content	CO, DRE for acetophenone, cumene, phenol
32		
33	**2000C4**	
34		
35	Report Name/Date	Nebraska Boiler Trial Burn Report, December 1997
36	Report Prepare	Walsh Environmental, Inc.
37	Testing Firm	Walsh Environmental, Inc.
38	Testing Dates	September 5, 1997
39	Cond Dates	Sep-97
40	Condition Descr	Trial burn, Cr+6 burn, max waste, ash, Cl, comb temp
41	Content	Cr+6, PM, HCl/Cl2

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	**Stack Gas Emissions**														
2															
3		Commen	Units	7% O2											
4															
5															
6	**2000C1**	**Trial Burn**				R1		R2		R3		R4		R5	Cond Avg
7										Sootblow					
8	PM	E1	gr/dscf	y		0.0287		0.0254		0.0232					0.0258
9	CO (MHRA)	E1	ppmv	y		2.58		2.18		1.37		1.45		2.49	2.0
10	HCl		g/s			0.000187		0.000194		0.000196					
11	Cl2		g/s			0.000374		0.000485		0.00049					
12	Benzene		g/s			0.0055		0.0005		0.0155		0.0077		0.0069	
13															
14	POHC DRE	Cumene													
15	Feedrate														
16	Emission Rate	E2													
17	DRE	E2	%			99.99104		99.99996		99.99818		99.99006		99.99678	
18															
19	POHC DRE	Phenol													
20	Feedrate														
21	Emmision Rate	E2													
22	DRE	E2	%			99.99995		99.99998		99.99991		99.9999		99.99993	
23															
24	POHC DRE	Acetophenone													
25	Feedrate														
26	Emission Rate	E2													
27	DRE	E2	%			99.9996		99.99993		99.99989		99.99975		99.99984	
28															
29	Sampling Train	PM, HCl/	E1												
30	Stack Gas Flowrate		dscfm			37970.3		38771.8		40816.9					39186.3
31	O2		%			13.5		13.5		13.5					13.5
32	Moisture		%			16.5		15.5		16.2					16.1
33	Temperature		°F			484.1		482.7		470.4					479.1
34															
35	Sampling Train	DRE	E2												
36	Stack Gas Flowrate		dscfm			41706.6		41136.8		40589.9		40965.8		40840.5	41144.4
37	O2		%			13.02		13.5		13.5		13.5		11.6	13.3
38	Moisture		%			15.6		12.2		15.7		14.4		15.8	14.5
39	Temperature		°F			486.1		482.8		469.6		473.7		475.1	479.5
40															
41	HCl	E1	ppmv	y		0.013		0.013		0.013					0.013
42	Cl2	E1	ppmv	y		0.013		0.017		0.016					0.016
43	Total Chlorine	E1	ppmv	y		0.040		0.047		0.045					0.044
44															
45															
46	**2000C2**	**DRE**				R1		R2		R3					Cond Avg
47										sootblow?					
48	PM	E1	gr/dscf	y		0.0133		0.0195		0.0291					0.0206
49	CO (MHRA)	E1	ppmv	y		1.78		1.96		2.96					2.2
50															
51	POHC DRE	Cumene													
52	Feedrate														
53	Emission Rate														
54	DRE	E2	%			99.99994		99.99973		99.99863					
55															
56	POHC DRE	Phenol													
57	Feedrate														
58	Emission Rate														
59	DRE	E2	%			99.99989		99.99995		99.99999					
60															
61	POHC DRE	Acetophenone													
62	Feedrate														
63	Emission Rate														
64	DRE	E2	%			99.99988		99.99986		99.99983					
65															
66	Sampling Train	PM	E1												
67	Stack Gas Flowrate		dscfm			26895.1		29069.7		26223.1					27396.0
68	O2		%			11		14.5		10.9					12.1
69	Moisture		%			17.3		19.1		18.7					18.4
70	Temperature		°F			437.2		439.1		444.8					440.4
71															

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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
72	Sampling Train	DRE	E2												
73	Stack Gas Flowrate		dscfm			28732.7		24805.2		26033.6					26523.8
74	O2		%			11		10.9		11.2					11.0
75	Moisture		%			17.9		20.2		19.7					19.3
76	Temperature		°F			431.4		434.3		441.7					435.8
77															
78	Sampling Train	PCDD/P(	E3												
79	Stack Gas Flowrate		dscfm			28732.7		24805.2		26033.6					26523.8
80	O2		%			11		10.9		11.2					11.0
81	Moisture		%			17.9		20.2		19.7					19.3
82	Temperature		°F			431.4		434.3		441.7					435.8
83															
84	**2000C3**	**DRE Burn**				R1		R2		R3					Cond Avg
85															
86	CO (MHRA)	E1	ppmv	y		3.71		5.06		2.05					3.6
87															
88	POHC DRE	Cumene													
89	Feedrate														
90	Emission Rate														
91	DRE	E1	%			99.99296		99.98604		99.96546					
92															
93	POHC DRE	Phenol													
94	Feedrate														
95	Emission Rate														
96	DRE	E1	%			99.99987		99.9998		99.99963					
97															
98	POHC DRE	Acetophenone													
99	Feedrate														
100	Emission Rate														
101	DRE	E1	%			99.99953		99.99954		99.99949					
102															
103	Sampling Train	DRE	E1												
104	Stack Gas Flowrate		dscfm			21916.6		21618.1		22094.1					21876.3
105	O2		%			10.9		10.7		11.1					10.9
106	Moisture		%			21.4		21.2		21.3					21.3
107	Temperature		°F			417.6		421.3		420.1					419.7
108															
109	**2000C4**	**Cr+6 Burn**				R1		R2		R3					Cond Avg
110															
111	PM	E1	gr/dscf	y		0.0962		0.1099		0.0924					0.0995
112	CO (MHRA)	E1	ppmv	y		2.36		3.98		2.07					2.8
113	HCl		g/s			0.000189		0.0001915		0.000197					
114	Cl2		g/s			0.000189		0.0001915		0.000197					
115	Chromium (Hex)		g/hr			16.79		18.67		8.7					
116															
117	Sampling Train	PM, HCl/	E1												
118	Stack Gas Flowrate		dscfm			32950.3		32624.9		36820.8					34132.0
119	O2		%			9.4		10.1		11.5					10.3
120	Moisture		%			16.4		16.7		15.4					16.2
121	Temperature		°F			473.9		488		511.3					491.1
122															
123	Sampling Train	Cr+6	E2												
124	Stack Gas Flowrate		dscfm			30355.4		30921.5		38499.2					33258.7
125	O2		%			9.4		10.1		11.5					10.3
126	Moisture		%			13.2		11.5		10.4					11.7
127	Temperature		°F			475.5		487.7		513.8					492.3
128															
129	HCl	E1	ppmv	y		0.010		0.011		0.011					0.011
130	Cl2	E1	ppmv	y		0.005		0.005		0.006					0.005
131	Total Chlorine	E1	ppmv	y		0.020		0.022		0.023					0.021
132	Chromium (Hex)	E2	µg/dscm	y		393.1		456.7		196.1					348.7

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	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	**Feedrates**																								
2																									
3																									
4	**2000C1**	**Trial Burn**			R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3
5																									
6	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3
7	Feed Class				Oil		Oil		Oil		Oil		Raw Material		Raw Material		Raw Material		Raw Material		Total		Total		Total
8	Feed Class 2				MF		MF		MF		MF		RM		RM		RM		RM		Total		Total		Total
9	Feedstream Description				Mixed Oil		Mixed Oil		Mixed Oil		Mixed Oil		Quench Water		Quench Water		Quench Water		uench Water		Total		Total		Total
10	Feed Rate		gpm		13.01		13		13		13								0		0				
11	Feed Rate		lb/hr		7206.8		6960.56		7116.69		7094														
12	Viscosity		cSt								1073														
13	Specific Gravity										1.107														
14	Density		g/ml		1.008		1.107		1.07		1.09		1.006		1.006		1.006		1.006						
15	Heating Value		Btu/lb		15700		16300		16800		16200														
16	Ash		wt %		0.06		0.08		0.06		0.062	nd	0.01	nd	0.01		0.01		0.01						
17	Chlorine		ppmw	nd	20	nd	20	nd	20		20	nd	0.5	nd	0.5		0.5		0.5						
18																									
19	Stack Gas Flowrate		dscfm		37970.3		38771.8		40816.9		39186.3										37970.3		38772		40816.9
20	Oxygen		%		13.5		13.5		13.5		13.5										13.5		13.5		13.5
21																									
22	Thermal Feedrate		MMBtu/hr		113.1		113.5		119.6		114.9										113.1		113.5		119.6
23	Estimated Firing Rate		MMBtu/hr																		90.4		92.3		97.2
24																									
25	*Feedrate MTEC Calculations*																								
26																									
27	Ash		mg/dscm		56.8		71.7		52.2		60.2										56.8		71.7		52.2
28	Chlorine		ug/dscm	100	1894.6	100	1792.0	100	1740.4	100	1809.0									100	1894.6	100	1792.0	100	1740.4
29																									
30	**2000C2**	**Risk Burn**			R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3
31																									
32	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3
33	Feed Class				Oil		Oil		Oil		Oil		Raw Material		Raw Material		Raw Material		Raw Material		Total		Total		Total
34	Feed Class 2				MF		MF		MF		MF		RM		RM		RM		RM		Total		Total		Total
35	Feedstream Description				Mixed Oil		Mixed Oil		Mixed Oil		Mixed Oil		Quench Water		Quench Water		Quench Water		uench Water		Total		Total		Total
36	Feed Rate		lb/hr		3860		3790.03		3812.6		3840.78								0						
37	Viscosity		cSt								1654.7														
38	Specific Gravity				1.09		1.09		1.09		1.09														
39	Density		g/ml		1.1		1.1		1.1		1.1		1.003		1.003		1.003		1.003						
40	Heating Value		Btu/lb		15500		15700		16600		15933.3														
41	Ash		wt %		0.12		0.09		0.18		0.13		0.01		0.01		0.01		0.01						
42	Chlorine		ppmw	nd	20	nd	20	nd	20		20		0.5		0.5		0.5		0.5						
43	Antimony		ppmw	nd	0.5	nd	0.5	nd	0.5		0.5		0.003		0.003		0.003		0.003						
44	Arsenic		ppmw	nd	0.25	nd	0.25	nd	0.25		0.25		0.0008		0.0008		0.0008		0.0008						
45	Barium		ppmw	nd	0.8	nd	0.8	nd	0.8		0.8		0.01		0.01		0.01		0.01						
46	Beryllium		ppmw	nd	0.1	nd	0.1	nd	0.1		0.1		0.01		0.01		0.01		0.01						
47	Cadmium		ppmw	nd	0.1	nd	0.1	nd	0.1		0.1		0.01		0.01		0.01		0.01						
48	Chromium		ppmw		53		51		41		48		0.01		0.01		0.01		0.01						
49	Lead		ppmw	nd	0.5	nd	0.5	nd	0.5		0.5		0.05		0.05		0.05		0.05						
50	Mercury		ppmw	nd	0.2	nd	0.2	nd	0.2		0.2		0.0002		0.0002		0.0002		0.0002						
51	Nickel		ppmw		18		15		14		16		0.02		0.02		0.02		0.02						
52	Selenium		ppmw	nd	0.3	nd	0.3	nd	0.3		0.3		0.003		0.003		0.003		0.003						
53	Silver		ppmw	nd	0.1	nd	0.1	nd	0.1		0.1		0.01		0.01		0.01		0.01						
54	Thallium		ppmw	nd	0.5	nd	0.5	nd	0.5		0.5		0.005		0.005		0.005		0.005						
55																									
56	Stack Gas Flowrate		dscfm		26895.1		29069.7		26223.1		27396.0														
57	Oxygen		%		11		14.5		10.9		12.1														
58																									
59	Thermal Feedrate		MMBtu/hr		59.8		59.5		63.3		61.2										59.8		59.5		63.3
60	Estimated Firing Rate		MMBtu/hr																		0.0		0.0		0.0

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	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
1	**Feedrates**																		
2																			
3																			
4	**2000C1**		Cond Avg																
5																			
6	Feedstream Number		F3																
7	Feed Class		Total																
8	Feed Class 2		Total																
9	Feedstream Description		Total																
10	Feed Rate																		
11	Feed Rate																		
12	Viscosity																		
13	Specific Gravity																		
14	Density																		
15	Heating Value																		
16	Ash																		
17	Chlorine																		
18																			
19	Stack Gas Flowrate		39186.3																
20	Oxygen		13.5																
21																			
22	Thermal Feedrate		114.9																
23	Estimated Firing Rate		93.3																
24																			
25	*Feedrate MTEC Calculation*																		
26																			
27	Ash		60.2																
28	Chlorine	100	1809.0																
29																			
30	**2000C2**		Cond Avg																
31																			
32	Feedstream Number		F3																
33	Feed Class		Total																
34	Feed Class 2		Total																
35	Feedstream Description		Total																
36	Feed Rate																		
37	Viscosity																		
38	Specific Gravity																		
39	Density																		
40	Heating Value																		
41	Ash																		
42	Chlorine																		
43	Antimony																		
44	Arsenic																		
45	Barium																		
46	Beryllium																		
47	Cadmium																		
48	Chromium																		
49	Lead																		
50	Mercury																		
51	Nickel																		
52	Selenium																		
53	Silver																		
54	Thallium																		
55																			
56	Stack Gas Flowrate		26523.8																
57	Oxygen		11.0																
58																			
59	Thermal Feedrate		61.2																
60	Estimated Firing Rate		83.9																

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	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
61																									
62	*Feedrate MTEC Calculations*																								
63																									
64	Ash		mg/dscm		64.5		67.6		97.0		76.3										64.5		67.6		97.0
65	Chlorine		ug/dscm	100	1074.5	100	1501.6	100	1077.7	100	1217.9									100	1074.5	100	1501.6	100	1077.7
66	Antimony		ug/dscm	100	26.9	100	37.5	100	26.9	100	30.4									100	26.9	100	37.5	100	26.9
67	Arsenic		ug/dscm	100	13.4	100	18.8	100	13.5	100	15.2									100	13.4	100	18.8	100	13.5
68	Barium		ug/dscm	100	43.0	100	60.1	100	43.1	100	48.7									100	43.0	100	60.1	100	43.1
69	Beryllium		ug/dscm	100	5.4	100	7.5	100	5.4	100	6.1									100	5.4	100	7.5	100	5.4
70	Cadmium		ug/dscm	100	5.4	100	7.5	100	5.4	100	6.1									100	5.4	100	7.5	100	5.4
71	Chromium		ug/dscm		2847.3		3829.2		2209.3		2961.9										2847.3		3829.2		2209.3
72	Lead		ug/dscm	100	26.9	100	37.5	100	26.9	100	30.4									100	26.9	100	37.5	100	26.9
73	Mercury		ug/dscm	100	10.7	100	15.0	100	10.8	100	12.2									100	10.7	100	15.0	100	10.8
74	Nickel		ug/dscm		967.0		1126.2		754.4		949.2										967.0		1126.2		754.4
75	Selenium		ug/dscm	100	16.1	100	22.5	100	16.2	100	18.3									100	16.1	100	22.5	100	16.2
76	Silver		ug/dscm	100	5.4	100	7.5	100	5.4	100	6.1									100	5.4	100	7.5	100	5.4
77	Thallium		ug/dscm	100	26.9	100	37.5	100	26.9	100	30.4									100	26.9	100	37.5	100	26.9
78	SVM		ug/dscm	100	16.1	100	22.5	100	16.2	100	18.3									100	16.1	100	22.5	100	16.2
79	LVM		ug/dscm	0.7	2866.1	0.68	3855.5	0.85	2228.1	0.7	2983.2									0.66	2866.1	0.68	3855.5	0.85	2228.1
80																									
81	**2000C3**	**DRE Burn**			R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3
82																									
83	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3
84	Feed Class				Oil		Oil		Oil		Oil		Raw Material		Raw Material		Raw Material		Raw Material		Total		Total		Total
85	Feed Class 2				MF		MF		MF		MF		RM		RM		RM		RM		Total		Total		Total
86	Feedstream Description				Mixed Oil		Mixed Oil		Mixed Oil		Mixed Oil		Quench Water		Quench Water		Quench Water		uench Water		Total		Total		Total
87	Feed Rate		gpm		3.5		3.5		3.52		3.52														
88	Feed Rate		lb/hr		1946		1923		1895		1921														
89	Viscosity		csc		1429.3		1429.3		1429.3		1429.3														
90	Specific Gravity				1.095		1.095		1.095		1.095														
91	Density		g/ml		1.11		1.097		1.075		1.09		1.007		1.007		1.007		1.007						
92	Heating Value		Btu/lb		15300		15800		15600		15566.7														
93	Ash		wt %		0.35		0.35		0.36		0.35		0.01		0.01		0.01		0.01						
94	Chlorine		ppmw	nd	20	nd	20	nd	20		20		0.5		0.5		0.5		0.5						
95																									
96	Stack Gas Flowrate		dscfm		21916.6		21618.1		22094.1		21876.3														
97	Oxygen		%		10.9		10.7		11.1		10.9														
98																									
99	Thermal Feedrate		MMBtu/hr		29.8		30.4		29.6		29.9										29.8		30.4		29.6
100	Estimated Firing Rate		MMBtu/hr																		0.0		0.0		0.0
101																									
102	*Feedrate MTEC Calculations*																								
103																									
104	Ash		mg/dscm		115.2		113.2		116.8		113.9										115.2		113.2		116.8
105	Chlorine		ug/dscm	100	658.1	100	646.6	100	648.7	100	650.9									100	658.1	100	646.6	100	648.7
106																									
107	**2000C4**	**Cr+6 Burn**			R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3
108																									
109	Feedstream Number				F1		F1		F1		F1		F2		F2		F2		F2		F3		F3		F3
110	Feed Class				Oil		Oil		Oil		Oil		Raw Material		Raw Material		Raw Material		Raw Material		Oil		Oil		Oil
111	Feed Class 2												RM		RM		RM		RM						
112	Feedstream Description				Mixed Oil		Mixed Oil		Mixed Oil		Mixed Oil		Quench Water		Quench Water		Quench Water		uench Water		Fusel Oil*		Fusel Oil*		Fusel Oil*
113	Feed Rate		lb/hr		4227.9		4216.97		4238.82		4228										854.63		701.56		1815.55
114	Specific Gravity										1.092										0.85		0.85		0.85
115	Ash		wt %		0.37		0.35		0.32		0.35		0.01		0.01		0.01		0.01		4.2		4.5		4.25
116	Chlorine		ppmw	nd	20	nd	20	nd	20		20		0.5		0.5		0.5		0.5		9600		12500		10440
117	Chromium		ppmw		44		42		42		43		0.01		0.01		0.01		0.01		156.0		159		115
118																									
119	*Fusel oil spiked with chromium and chlorine; spiking amount not known																								
120																									

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	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
61																			
62	*Feedrate MTEC Calculation*																		
63																			
64	Ash		76.3																
65	Chlorine	100	1217.9																
66	Antimony	100	30.4																
67	Arsenic	100	15.2																
68	Barium	100	48.7																
69	Beryllium	100	6.1																
70	Cadmium	100	6.1																
71	Chromium		2961.9																
72	Lead	100	30.4																
73	Mercury	100	12.2																
74	Nickel		949.2																
75	Selenium	100	18.3																
76	Silver	100	6.1																
77	Thallium	100	30.4																
78	SVM	100	18.3																
79	LVM	0.7	2983.2																
80																			
81	**2000C3**		Cond Avg																
82																			
83	Feedstream Number		F3																
84	Feed Class		Total																
85	Feed Class 2		Total																
86	Feedstream Description		Total																
87	Feed Rate																		
88	Feed Rate																		
89	Viscosity																		
90	Specific Gravity																		
91	Density																		
92	Heating Value																		
93	Ash																		
94	Chlorine																		
95																			
96	Stack Gas Flowrate		21876.27																
97	Oxygen		10.9																
98																			
99	Thermal Feedrate		29.9																
100	Estimated Firing Rate		70.1																
101																			
102	*Feedrate MTEC Calculation*																		
103																			
104	Ash		115.0																
105	Chlorine	100	651.1																
106																			
107	**2000C4**		Cond Avg		R1		R2		R3		Cond Avg		R1		R2		R3		Cond Avg
108																			
109	Feedstream Number		F3		F4		F4		F4		F4								
110	Feed Class		Oil		Total		Total		Total		Total								
111	Feed Class 2				Total		Total		Total		Total		MF		MF		MF		MF
112	Feedstream Description		Fusel Oil*		Total		Total		Total		Total								
113	Feed Rate																		
114	Specific Gravity																		
115	Ash																		
116	Chlorine																		
117	Chromium																		
118																			
119	*Fusel oil spiked with chrom																		
120																			

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	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
121	Stack Gas Flowrate		dscfm		32950.3		32624.9		36820.8		34132.0		32950.3		32624.9		36820.8		34132.0		32950.3		32625		36820.8
122	Oxygen		%		9.4		10.1		11.5		10.3		9.4		10.1		11.5		10.3		9.4		10.1		11.5
123																									
124	Estimated Firing Rate		MMBtu/hr																						
125																									
126	*Feedrate MTEC Calculations*																								
127																									
128	Ash		mg/dscm		153.2		155.4		145.2		152.1										351.5		332.3		825.7
129	Chlorine		ug/dscm	100	828.1	100	887.8	100	907.2	100	869.4										80348.6		92309.3		202832.8
130	Chromium		ug/dscm		1821.8		1864.3		1905.1		1869.2										1305.7		1174.2		2234.3

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	B	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
121	Stack Gas Flowrate		34132.0		32950.3		32624.9		36820.8		34132.0								
122	Oxygen		10.3		9.4		10.1		11.5		10.3								
123																			
124	Estimated Firing Rate				121.3		112.9		111.0		115.6								
125																			
126	*Feedrate MTEC Calculation*																		
127																			
128	Ash		503.2		504.7		487.7		970.9		654.4		504.7		487.7		970.9		654.4
129	Chlorine		125163.5	1	80762.6	1	92753.2	1	203286.4	1	125600.7	1	80762.6	1	92753.2	0	203286.4	1	125600.7
130	Chromium		1571.4		3127.5		3038.5		4139.4		3435.1		3127.5		3038.5		4139.4		3435.1

	A	B	C
1	**Process Information**		
2			
3	**2000C1**		Cond Avg
4			
5	Comb Temp	F	2352
6	Steam Production	M lb/hr	89.1
7			
8	**2000C2**		
9			
10	Comb Temp	F	2173
11	Steam Production	M lb/hr	59.8
12			
13	**2000C3**		
14			
15	Comb Temp	F	1993
16	Steam Production	M lb/hr	44.2
17			
18	**2000C4**		
19			
20	Comb Temp	F	2448
21	Steam Production	M lb/hr	79.7

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1		**PCDD/PCDF**																
2		N																
3		Facility Name and ID:	Georgia Gulf Corporation															
4		Condition ID:	2000C2															
5		Condition/Test Date:	Risk burn, normal operating condition, August 28 - September 2, 1997															
6																		
7			I-TEF			Run 1					Run 2						Run 3		
8			Wght Fact		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ		Total	TEQ	Total	TEQ
9					Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND		Full ND	Full ND	1/2 ND	1/2 ND
10		Detected in sample volume (ng)																
11		2,3,7,8-TCDD	1		0.004	0.0040	0.004	0.0040		0.004	0.004	0.004	0.004		0.008	0.008	0.008	0.008
12		1,2,3,7,8-PCDD	0.5		0.007	0.0035	0.007	0.0035		0.02	0.010	0.020	0.010	nd	0.020	0.010	0.010	0.005
13		1,2,3,4,7,8-HxCDD	0.1		0.020	0.0020	0.020	0.0020		0.02	0.002	0.020	0.002		0.020	0.002	0.020	0.002
14		1,2,3,6,7,8-HxCDD	0.1		0.020	0.0020	0.020	0.0020		0.03	0.003	0.030	0.003		0.020	0.002	0.020	0.002
15		1,2,3,7,8,9-HxCDD	0.1		0.020	0.0020	0.020	0.0020		0.04	0.004	0.040	0.004		0.040	0.004	0.040	0.004
16		1,2,3,4,6,7,8-HpCDD	0.01		0.040	0.0004	0.040	0.0004		0.21	0.002	0.210	0.002		0.100	0.001	0.100	0.001
17		OCDD	0.001		0.130	0.0001	0.130	0.0001		0.36	0.000	0.360	0.000		0.180	0.000	0.180	0.000
18		2,3,7,8-TCDF	0.1		0.080	0.0080	0.080	0.0080		0.17	0.017	0.170	0.017		0.200	0.020	0.200	0.020
19		1,2,3,7,8-PCDF	0.05		0.010	0.0005	0.010	0.0005		0.02	0.001	0.020	0.001	nd	0.030	0.002	0.015	0.001
20		2,3,4,7,8-PCDF	0.5		0.030	0.0150	0.030	0.0150		0.08	0.040	0.080	0.040		0.080	0.040	0.080	0.040
21		1,2,3,4,7,8-HxCDF	0.1		0.010	0.0010	0.010	0.0010		0.05	0.005	0.050	0.005		0.040	0.004	0.040	0.004
22		1,2,3,6,7,8-HxCDF	0.1		0.007	0.0007	0.007	0.0007		0.02	0.002	0.020	0.002		0.020	0.002	0.020	0.002
23		2,3,4,6,7,8-HxCDF	0.1		0.010	0.0010	0.010	0.0010		0.04	0.004	0.040	0.004		0.040	0.004	0.040	0.004
24		1,2,3,7,8,9-HxCDF	0.1		0.010	0.0010	0.010	0.0010		0.006	0.001	0.006	0.001	nd	0.007	0.0007	0.004	0.0004
25		1,2,3,4,6,7,8-HpCDF	0.01		0.010	0.0001	0.010	0.0001		0.17	0.002	0.170	0.002	nd	0.030	0.0003	0.015	0.0002
26		1,2,3,4,7,8,9-HpCDF	0.01		0.010	0.0001	0.010	0.0001	nd	0.02	0.000	0.010	0.000		0.006	0.0001	0.006	0.0001
27		OCDF	0.001		0.010	0.0000	0.010	0.0000		0.00029	0.000	0.000	0.000		0.007	0.0000	0.007	0.0000
28																		
29		Gas sample volume (dscf)				126.42		126.42			115.54		115.54			133.16		133.16
30		O2 (%)				11.00		11.00			10.9		10.9			11.20		11.20
31																		
32		PCDD/PCDF (ng in sample)				0.04		0.04			0.097		0.097			0.0997		0.0935
33		PCDD/PCDF (ng/dscm @ 7% O2)		0.0		0.016		0.016	0.2		0.041		0.041	12.5		0.038		0.035
34																		
35		TEQ Cond Avg	0.031															