	B	C
1	**Source Description**	
2		
3	Phase I ID No.	3020
4	EPA ID No.	
5	Facility Name	General Electric Company, Silicones Products Division
6	Facility Location	
7	City	Waterford
8	State	NY
9	Unit ID Name/No.	#2 Fixed Box Incinerator
10	Other Sister Facilities	
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Liquid injection
14	Combustor Characteristics	Liquid injection incinerator manufactured by Bigelow Liptak Co. The incinerator chamber is a refractory/insulation system encased by a steel outer shell and has a volume of 3640 cubic feet. The construction is suitable for chamber temperatures of 2300 °F
15	Capacity (MMBtu/hr)	40 MMBtu/hr
16	Soot Blowing	
17	APCS Detailed Acronym	QC/PCS/IWS
18	APCS General Class	WQ, LEWS, IWS
19	APCS Characteristics	Quench Chamber, Packed Column Scrubber, Two-stage Ionizing Wet Scrubber (A cross-tie duct enables some of the flue gas from Incinerator #2 to routed through the APCS of Incinerator #1). Incinerator #1 was turned off during the trial burn.
20	Hazardous Wastes	Liq
21	Haz Waste Description	Non Polar Solvents: Primarily toluene 45-65%, HV-14900 Btu/lb, Cl < 0.3%, Si~5.4%. POHC Mixture:Mixture of NPS Waste, carbon Tetrachloride, and chlorobenzene. Acid Polor Solvents: Liquid mixture of water, HCl and polar solvents, HV < 100 Btu/lb, Cl~5.8%, Si~1.4%, Spiked with As, Be, Cr. Waste Slurry:Mixture of chlorinated silanes and silicon powder, HV < 10,000 btu/lb, Cl~30%, Si~25%. Vent Gases: Gases from process vents and wastewater stripper unit
22	Supplemental Fuel	Oil
23		No.2 Fuel Oil
24		
25	Stack Characteristics	
26	Diameter (ft)	3.0
27	Height (ft)	100
28	Gas Velocity (ft/sec)	
29	Gas Temperature (°F)	
30		
31	Permitting Status	
32	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**3020C1**	
4		
5	Report Name/Date	Trial Burn Report for No.2 Fixed Box Incinerator, Vol-1, July 9, 1992
6	Report Preparation	Industrial and Environmental Analysts(IEA), Inc
7	Testing Firm	IEA
8	Testing Dates	February 26, 1992
9	Cond Dates	Feb-92
10	Condition Descr	Trial burn, maximum heat duty, maximum ash and chlorine feed
11	Content	PM, HCl/Cl_2, CO, HC, Metals, Hexavalent Chromium, SVOC, VOC
12		
13	**3020C2**	
14		
15	Report Name/Date	Trial Burn Report for No.2 Fixed Box Incinerator, Vol-1, July 9, 1992
16	Report Preparation	Industrial and Environmental Analysts(IEA), Inc
17	Testing Firm	IEA
18	Testing Dates	February 27, 1992
19	Cond Dates	Feb-92
20	Condition Descr	Trial burn, maximum heat duty, reduced ash and chlorine feed
21	Content	PM, HCl/Cl_2, CO, HC, Metals, Hexavalent Chromium, SVOC, VOC
22		
23	**3020C3**	*Need copy of report; have results provided by GE*
24		
25	Report Name/Date	
26	Report Preparation	
27	Testing Firm	
28	Testing Dates	May 1, 2001
29	Cond Dates	May-01
30	Condition Descr	Mini burn
31	Content	D/F

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 1**											
2												
3												
4												
5												
6			**3020C1**	**Trial Burn**	**Stack 1(North)**			R1		R2		R3
7												
8			PM		gr/dscf	y		0.0155		0.0156		0.0127
9			CO (RA)		ppmv			8.8		9.7		9.8
10			HC (RA)		ppmv							
11			HCl		lb/dscf			2.46E-08		1.30E-07		7.54E-08
12			Cl2		lb/dscf			8.79E-07		8.78E-07		1.70E-06
13												
14			Sampling Train	PM, HCl/Cl2								
15			Stack Gas Flowrate		dscfm			7200		7300		7300
16			O2		%			12.7		12.6		13.0
17			Moisture		%			2.1		1.9		2.3
18			Temperature		°F			59.9		58.2		57.5
19												
20												
21					**Stack 2 (South)**			R1		R2		R3
22												
23			PM		gr/dscf	y		0.0072		0.0058		0.0056
24			CO (RA)		ppmv			7.0		10.9		7.0
25			HC (RA)		ppmv			7.6		2.7		2.7
26			HCl		lb/dscf			1.27E-07		9.21E-08		9.87E-08
27			Cl2		lb/dscf			6.40E-07		7.26E-07		1.30E-06
28												
29			Sampling Train	PM, HCl/Cl2								
30			Stack Gas Flowrate		dscfm			6700		6900		6800
31			O2		%			11.3		11.1		11.1
32			Moisture		%			2.1		1.8		1.4
33			Temperature		°F			58.3		56.9		58.1
34												
35	**3020C1**	Comments	Units	7% O2		R1		R2		R3		Cond Avg
36	**Composite (Stacks 1& 2)**											
37												
38												
39	PM	E1	gr/dscf	y		0.0115		0.0108		0.0093		0.0105
40	CO (RA)		ppmv			7.9		10.3		8.4		8.9
41	HC (RA)		ppmv			7.6		2.7		2.7		4.3
42	HCl		lb/dscf			7.40E-08		1.12E-07		8.66E-08		9.07E-08
43	Cl2		lb/dscf			7.64E-07		8.04E-07		1.51E-06		1.03E-06
44												
45												
46	POHC DRE	Carbon tetrachloride										
47	POHC Feedrate		lb/hr			558		532		487		526
48	Emission Rate	E1	lb/hr			0.00557		0.00510		0.00306		0.00458
49	DRE	E1	%			99.99900		99.99904		99.99937		99.99914
50												
51	POHC DRE	Toluene										
52	POHC Feedrate		lb/hr			746		635		594		658
53	Emission Rate	E1	lb/hr			0.0659		0.0448		0.0315		0.04740
54	DRE	E1	%			99.9912		99.9929		99.9947		99.99293
55												
56	POHC DRE	Chlorobenzene										
57	POHC Feedrate		lb/hr			111		105		91		102
58	Emission Rate	E1	lb/hr			0.000750		0.000690		0.000605		0.00068
59	DRE	E1	%			99.99932		99.99934		99.99934		99.99933
60												
61	Arsenic		lb/hr			8.15E-05		8.05E-05		6.84E-05		
62	Antimony		lb/hr		nd	4.66E-05	nd	4.89E-05		9.56E-05		
63	Barium		lb/hr			6.96E-04		3.34E-04		3.11E-04		
64	Beryllium		lb/hr		nd	4.67E-05	nd	4.89E-05	nd	4.80E-05		
65	Cadmium		lb/hr			6.72E-05		4.23E-05		1.04E-04		
66	Chromium		lb/hr			4.37E-04		3.44E-04		3.18E-03		
67	Chromium (Hex)		lb/hr		nd	4.83E-05		6.21E-05		9.11E-05		
68	Copper		lb/hr			2.20E-02		1.47E-02		1.73E-02		
69	Lead		lb/hr			1.41E-04		6.69E-05		6.79E-05		
70	Mercury		lb/hr			4.14E-04		4.18E-04		2.43E-04		
71	Nickel		lb/hr			3.03E-04	nd	1.96E-04		3.54E-03		

	B	C	D	E	F	G	H	I	J	K	L	M
72	Selenium		lb/hr		nd	3.74E-05	nd	3.91E-05	nd	3.84E-05		
73	Silver		lb/hr			3.91E-04	nd	1.96E-04		4.71E-03		
74	Thallium		lb/hr		nd	1.87E-05	nd	1.96E-05	nd	1.83E-05		
75	Zinc		lb/hr			9.75E-03		6.97E-03		9.26E-03		
76												
77												
78	Sampling Train	PM, HCl/Cl2	E1									
79	Stack Gas Flowrate		dscfm			13900		14200		14100		14067
80	O2		%			12.0		11.9		12.1		12.0
81	Moisture		%			2.1		1.9		1.9		1.9
82	Temperature		°F			59.1		57.6		57.8		58.2
83												
84	Sampling Train	Metals	E2									
85	Stack Gas Flowrate		dscfm			13900		14200		14100		14067
86	O2		%			12.0		11.9		12.1		12.0
87	Moisture		%									
88	Temperature		°F									
89												
90	HCl	E1	ppmv	y		1.222		1.813		1.441		1.492
91	Cl2	E1	ppmv	y		6.489		6.717		12.888		8.7
92	Total Chlorine	E1	ppmv	y		14.20		15.25		27.22		18.9
93	CO (RA)	E1	ppmv	y		12.4		15.8		13.3		13.8
94	HC (RA)	E1	ppmv	y		11.9		4.1		4.2		6.7
95												
96	Arsenic	E2	ug/dscm	y		2.45		2.32		2.04		2.27
97	Antimony	E2	ug/dscm	y	nd	1.40	nd	1.41		2.85		1.89
98	Barium	E2	ug/dscm	y		20.88		9.64		9.26		13.26
99	Beryllium	E2	ug/dscm	y	nd	1.40	nd	1.41	nd	1.43		1.41
100	Cadmium	E2	ug/dscm	y		2.02		1.22		3.10		2.11
101	Chromium	E2	ug/dscm	y		13.11		9.93		94.7		39.24
102	Chromium (Hex)	E2	ug/dscm	y	nd	1.45		1.79		2.7		1.98
103	Copper	E2	ug/dscm	y		660.1		424.5		515.1		533.23
104	Lead	E2	ug/dscm	y		4.23		1.93		2.02		2.73
105	Mercury	E2	ug/dscm	y		12.4		12.1		7.24		10.6
106	Nickel	E2	ug/dscm	y		9.09	nd	5.66		105.4		40.05
107	Selenium	E2	ug/dscm	y	nd	1.12	nd	1.13	nd	1.14		1.13
108	Silver	E2	ug/dscm	y		11.73	nd	5.66		140.2		52.54
109	Thallium	E2	ug/dscm	y	nd	0.56	nd	0.57	nd	0.54		0.56
110	Zinc	E2	ug/dscm	y		292.6		201.3		275.7		256.51
111	SVM	E2	ug/dscm	y		6.25		3.15		5.12		4.84
112	LVM	E2	ug/dscm	y		16.96		13.67		98.15		42.9
113												
114												
115			**3020C2**	**Trial Burn**	**Stack 1(North)**			R1		R2		R3
116				Comments	Units	7% O2						
117			PM		gr/dscf	y		0.0197		0.0277		0.0252
118			CO (RA)		ppmv			13.1		7.2		5.4
119			HC (RA)		ppmv							
120			HCl		lb/dscf			2.67E-08		1.36E-07		3.08E-08
121			Cl2		lb/dscf			5.14E-07		1.25E-06		2.45E-06
122												
123			Sampling Train	PM, HCl/Cl2								
124			Stack Gas Flowrate		dscfm			7200		7100		6800
125			O2		%			12.6		12.8		12.7
126			Moisture		%			1.4		1.9		1.5
127			Temperature		°F			59.1		58.3		57.3
128												
129												
130					**Stack 2 (South)**			R1		R2		R3
131												
132			PM		gr/dscf	y		0.0153		0.011		0.0151
133			CO (RA)		ppmv			3.1		3.1		5.2
134			HC (RA)		ppmv			1.2		1.9		0.0
135			HCl		lb/dscf			8.09E-08		1.11E-07		1.35E-07
136			Cl2		lb/dscf			2.53E-07		1.07E-06		1.41E-06
137												
138			Sampling Train	PM, HCl/Cl2								
139			Stack Gas Flowrate		dscfm			6500		6700		6900
140			O2		%			11.3		11.3		11.1
141			Moisture		%			1.7		1.8		1.6
142			Temperature		°F			58.8		58.1		54.7

	B	C	D	E	F	G	H	I	J	K	L	M
143												
144	**3020C2**					R1		R2		R3		Cond Avg
145	**Composite (Stacks 1& 2)**											
146												
147	PM	E1	gr/dscf	y		0.0176		0.0196		0.0201		0.0191
148	CO (RA)		ppmv			8.4		5.2		5.3		6.3
149	HC (RA)		ppmv			1.2		1.9		0.0		1.0
150	HCl		lb/dscf			5.24E-08		1.24E-07		8.33E-08		8.65E-08
151	Cl2		lb/dscf			3.90E-07		1.16E-06		1.93E-06		1.16E-06
152												
153												
154	POHC DRE	Carbon tetrachloride										
155	POHC Feedrate		lb/hr			507		651		618		592
156	Emission Rate	E2	lb/hr			0.00456		0.00478		0.00589		0.00508
157	DRE	E2	%			99.99910		99.99927		99.99921		99.99919
158												
159	POHC DRE	Toluene										
160	POHC Feedrate		lb/hr			934		840		896		890
161	Emission Rate	E2	lb/hr			0.0257		0.0240		0.0253		0.02500
162	DRE	E2	%			99.9973		99.9971		99.9972		99.99720
163												
164	POHC DRE	Chlorobenzene										
165	POHC Feedrate		lb/hr			101		130		120		117
166	Emission Rate	E2	lb/hr			0.001002		0.000769		0.000880		0.00088
167	DRE	E2	%			99.99901		99.99941		99.99927		99.99923
168												
169	Arsenic		lb/hr			9.02E-05		9.12E-05		1.04E-04		9.51E-05
170	Antimony		lb/hr		nd	4.72E-05	nd	4.90E-05	nd	4.77E-05		4.80E-05
171	Barium		lb/hr			2.43E-04		3.30E-04		3.42E-04		3.05E-04
172	Beryllium		lb/hr		nd	4.72E-05	nd	4.90E-05		5.13E-05		4.92E-05
173	Cadmium		lb/hr			3.92E-05		7.58E-05		3.86E-05		5.12E-05
174	Chromium		lb/hr			8.66E-04		4.12E-03		2.12E-03		2.37E-03
175	Chromium (Hex)		lb/hr			8.77E-05		1.41E-04		1.41E-04		1.23E-04
176	Copper		lb/hr			1.29E-02		1.31E-02		2.11E-02		1.57E-02
177	Lead		lb/hr			4.47E-05		1.27E-04		7.95E-05		8.37E-05
178	Mercury		lb/hr			7.21E-05		1.29E-04		2.49E-04		1.50E-04
179	Nickel		lb/hr			1.14E-03		3.57E-03		1.52E-03		2.08E-03
180	Selenium		lb/hr		nd	3.77E-05	nd	3.92E-05	nd	3.81E-05		3.83E-05
181	Silver		lb/hr			1.98E-04		1.71E-04		1.91E-04		1.87E-04
182	Thallium		lb/hr		nd	1.89E-05	nd	1.96E-05	nd	1.91E-05		1.92E-05
183	Zinc		lb/hr			5.00E-03		5.66E-03		7.08E-03		5.91E-03
184												
185												
186	Sampling Train	PM, HCl/Cl2	E1									
187	Stack Gas Flowrate		dscfm			13700		13800		13700		13733
188	O2		%			12.0		12.1		11.9		12.0
189	Moisture		%			1.5		1.9		1.6		1.6
190	Temperature		°F			59.0		58.2		56.0		57.7
191												
192	Sampling Train	Metals	E2									
193	Stack Gas Flowrate		dscfm			13700		13800		13700		13733
194	O2		%			12.0		12.1		11.9		12.0
195	Moisture		%									
196	Temperature		°F									
197												
198	HCl	E1	ppmv	y		0.862		2.058		1.357		1.425
199	Cl2	E1	ppmv	y		3.299		9.929		16.130		9.8
200	Total Chlorine	E1	ppmv	y		7.46		21.92		33.62		21.0
201	CO (RA)	E1	ppmv	y		13.0		8.2		8.1		9.8
202	HC (RA)	E1	ppmv	y		1.9		3.0		0.0		1.6
203												
204	Arsenic	E2	ug/dscm	y		2.73		2.77		3.12		2.87
205	Antimony	E2	ug/dscm	y	nd	1.43	nd	1.49	nd	1.43		1.45
206	Barium	E2	ug/dscm	y		7.36		10.03		10.26		9.22
207	Beryllium	E2	ug/dscm	y	nd	1.43	nd	1.49		1.54		1.49
208	Cadmium	E2	ug/dscm	y		1.19		2.30		1.16		1.55
209	Chromium	E2	ug/dscm	y		26.24		125.17		63.61		71.67
210	Chromium (Hex)	E2	ug/dscm	y		2.66		4.28		4.23		3.72
211	Copper	E2	ug/dscm	y		390.90		397.99		633.12		474.00
212	Lead	E2	ug/dscm	y		1.35		3.86		2.39		2.53
213	Mercury	E2	ug/dscm	y		2.18		3.92		7.47		4.5

	B	C	D	E	F	G	H	I	J	K	L	M
214	Nickel	E2	ug/dscm	y		34.54		108.46		45.61		62.87
215	Selenium	E2	ug/dscm	y	nd	1.14	nd	1.19	nd	1.14		1.16
216	Silver	E2	ug/dscm	y		6.00		5.20		5.73		5.64
217	Thallium	E2	ug/dscm	y	nd	0.57	nd	0.60	nd	0.57		0.58
218	Zinc	E2	ug/dscm	y		151.51		171.96		212.44		178.64
219	SVM	E2	ug/dscm	y		2.54		6.16		3.54		4.08
220	LVM	E2	ug/dscm	y		30.41		129.43		68.27		76.0

	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 1**																										
2																											
3																											
4	**3020C1**	**Trial burn**			R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3
5																											
6	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3		F4		F4		F4
7	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Slurry HW		Slurry HW		Slurry HW
8	Feed Class 2																										
9	Feedstream Description				NPS Waste		NPS Waste		NPS Waste		APS Waste		APS Waste		APS Waste		POHC Mix		POHC Mix		POHC Mix		Slurry		Slurry		Slurry
10	Feed Rate		lb/hr		834.9		843.5		794.4		4849		4806		4741		852.2		871.7		826.3		2432		2510		2522
11	Heating Value		Btu/lb		17100		17250		17300	nd	100	nd	100	nd	100		6000		6000		6100		6467		6500		6767
12	Specific Gravity				0.86		0.86		0.84		1.00		0.98		0.96		1.31		1.3		1.28		1.24		1.27		1.26
13																											
14	Ash		%		1.51		1.68		1.54		0.11		0.1		0.11		0.67		0.53		0.46		23		30.3		29.5
15	Chlorine		%		0.28		0.13		0.15		2.22		2.18		2.21		52.8		48.6		44.9		26.9		24		26.2
16	Silicon		%		2.5		2.8		2.5		0.11		0.21		0.09		1.8		1.8		2.1		29.6		28		33.4
17																											
18	Carbon Tetrachloride		mg/kg		12500		12500		12500		25		25		31.5		680000		600000		590000		62		65		65
19	Toluene		mg/kg		740000		670000		660000		1300		1400		1700		91000		81000		75000		49		65		65
20	Chlorobenzene		mg/kg		12500		12500		12500		25		25		31.5		130000		120000		110000		62		65		65
21																											
22	Arsenic		mg/L		5		5		5		1780		1680		2350		5		5		5		59.8		53.1		47.6
23	Antimony		mg/L		30		30		30		71.6		67.8		30		30		30		30		12.09		12.1		11.7
24	Barium		mg/L		5		5		5		18.1		17.2		16.4		25.5		18.2		20.8		10.54		8.89		8.19
25	Beryllium		mg/L		2.5		2.5		2.5		66.4		58.4		58.6		2.5		2.5		2.5		0.329		0.3048		0.2898
26	Cadmium		mg/L		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		2.5		1.24		1.2065		1.197
27	Chromium		mg/L		5		5		5		6810		5960		6200		25.7		20.9		28.2		102.2		90.424		66.906
28	Copper		mg/L		12.5		12.5		12.5		70.2		62.4		66.2		335		229		305		64769		53763		48048
29	Lead		mg/L		7.5		7.5		7.5		18.5		16.5		17.5		7.5		7.5		7.5		12.09		24.257		11.718
30	Mercury		mg/L		10		10		10		10.0		23.5		10		10		10		26.9		0.006		0.00635		0.0063
31	Nickel		mg/L		20		20		20		1060		902		1010		20		20		40.5		73.8		73.152		58.968
32	Selenium		mg/L		2.5		12.5		12.5		2.5		2.5		2.5		12.5		12.5		12.5		12.5		12.1285		11.718
33	Silver		mg/L		5		5		5		5.0		5.0		5.0		5		5		5		1.98		2.0		1.8
34	Thallium		mg/L		5		5		5		5.0		5.0		5.0		5		5		5		12.1		12.1		11.7
35	Zinc		mg/L		46.9		58.5		59.5		223		142		151		3560		1660		2360		7725		6430		5771
36																											
37																											
38	Stack Gas Flowrate		dscfm		13900		14200		14100		13900		14200		14100		13900		14200		14100		13900		14200		14100
39	Oxygen		%		12.0		11.9		12.1		12.0		11.9		12.1		12.0		11.9		12.1		12.0		11.9		12.1
40																											
41	Thermal Feedrate		MMBtu/hr		14.3		14.6		13.7		0.5		0.5		0.5		5.1		5.2		5.0		15.7		16.3		17.1
42	Estimated Firing Rate		MMBtu/hr																								
43																											
44																											
45	*Feedrate MTEC Calculations*																										
46	Ash		mg/dscm		378		409		364		160		139		155		171		133		113		16784		21961		22152
47	Chlorine		ug/dscm		70145		31664		35479		3230062		3025387		3119637		13501471		12233310		11046531		19630054		17395049		19673798
48	Silicon		ug/dscm		626297		681999		591318		160048		291436		127044		460277		453086		516653		21600357		20294223		25080338
49																											
50	Arsenic		ug/dscm		146		142		141		258987		237907		345548		98		97		96		3517		3030		2838
51	Antimony		ug/dscm		874		850		845		10418		9601		4411		586		581		577		711		692		698
52	Barium		ug/dscm		146		142		141		2634		2436		2411		498		352		400		620		507		488
53	Beryllium		ug/dscm		73		71		70		9661		8270		8617		49		48		48		19		17		17
54	Cadmium		ug/dscm		73		71		70		364		354		368		49		48		48		73		69		71
55	Chromium		ug/dscm		146		142		141		990843		844004		911659		502		405		542		6013		5161		3987
56	Copper		ug/dscm		364		354		352		10214		8837		9734		6539		4434		5862		3811660		3068269		2863439
57	Lead		ug/dscm		218		212		211		2692		2337		2573		146		145		144		711		1384		698
58	Mercury		ug/dscm		291		283		282		1455		3328		1470		195		194		517		0		0		0
59	Nickel		ug/dscm		583		566		563		154228		127734		148512		390		387		778		4342		4175		3514
60	Selenium		ug/dscm		73		354		352		364		354		368		244		242		240		737		692		698

	B	AD	AF	AH	AJ	AL	AN	AP	AR
1	**Feedstream 1**								
2									
3									
4	**3020C1**	R1	R2	R3	R1	R2	R3	Cond Avg	Cond Avg
5									
6	Feedstream Number				F5	F5	F5	F5	F6
7	Feed Class				Total	Total	Total	Total	Spike
8	Feed Class 2	HW	HW	HW	Total	Total	Total	Total	Spike
9	Feedstream Description				Total	Total	Total	Total	Spike
10	Feed Rate				8968	9031	8884	8961	
11	Heating Value								
12	Specific Gravity								
13									
14	Ash								
15	Chlorine								
16	Silicon								
17									
18	Carbon Tetrachloride								
19	Toluene								
20	Chlorobenzene								
21									
22	Arsenic								
23	Antimony								
24	Barium								
25	Beryllium								
26	Cadmium								
27	Chromium								
28	Copper								
29	Lead								
30	Mercury								
31	Nickel								
32	Selenium								
33	Silver								
34	Thallium								
35	Zinc								
36									
37									
38	Stack Gas Flowrate				13900	14200	14100	14067	
39	Oxygen				12.0	11.9	12.1	12	
40									
41	Thermal Feedrate				35.6	36.6	36.3	36	
42	Estimated Firing Rate				39.6	41.2	39.9	40	
43									
44									
45	*Feedrate MTEC Calculati*								
46	Ash	17494	22643	22784	17494	22643	22784	20974	
47	Chlorine	36431732	32685410	33875445	36431732	32685410	33875445	34330863	
48	Silicon	22846979	21720744	26315353	22846979	21720744	26315353	23627692	
49									
50	Arsenic	262748	241175	348623	262748	241175	348623	284182	280814
51	Antimony	12589	11724	6531	12589	11724	6531	10281	8143
52	Barium	3897	3437	3440	3897	3437	3440	3591	2494
53	Beryllium	9802	8407	8752	9802	8407	8752	8987	8849
54	Cadmium	558	542	557	558	542	557	553	362
55	Chromium	997504	849711	916329	997504	849711	916329	921181	915502
56	Copper	3828778	3081894	2879387	3828778	3081894	2879387	3263353	9595
57	Lead	3768	4079	3627	3768	4079	3627	3825	2534
58	Mercury	1942	3805	2269	1942	3805	2269	2672	2084
59	Nickel	159543	132862	153368	159543	132862	153368	148591	143491
60	Selenium	1418	1642	1658	1418	1642	1658	1573	362

	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
61	Silver		ug/dscm		146		142		141		727		708		735		98		97		96		117		116		105
62	Thallium		ug/dscm		146		142		141		727		708		735		98		97		96		711		692		698
63	Zinc		ug/dscm		1366		1657		1675		32446		20109		22203		69491		32142		45361		454629		366963		343916
64	SVM		ug/dscm		291		283		282		3055		2691		2941		195		194		192		784		1453		770
65	LVM		ug/dscm		364		354		352		1259491		1090182		1265823		648		550		686		9550		8208		6843
66																											
67																											
68																											
69																											
70	**3020C2**	**Trial burn**			R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3
71																											
72	Feedstream Number				F1		F1		F1		F2		F2		F2		F3		F3		F3		F4		F4		F4
73	Feed Class				Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Liq HW		Slurry HW		Slurry HW		Slurry HW
74	Feed Class 2																										
75	Feedstream Description				NPS Waste		NPS Waste		NPS Waste		APS Waste		APS Waste		APS Waste		POHC Mix		POHC Mix		POHC Mix		Slurry		Slurry		Slurry
76	Feed Rate		lb/hr		1202		1162		1153		3483		3420		3458		845.5		928.7		997.4		1633		1601		1614
77	Heating Value		Btu/lb		17300		17300		17400	nd	100	nd	100	nd	100		5800		6000		6000		6837		7033		6900
78	Specific Gravity				0.87		0.87		0.86		0.96		0.96		0.96		1.32		1.28		1.31		1.28		1.28		1.29
79																											
80	Ash		%		1.17		1.45		1.54		0.05		0.11		0.11		17.2		0.94		0.9		29.5		23.7		27.5
81	Chlorine		%		0.18		0.15		0.18		0.86		0.93		0.9		47		49.3		48.9		24.3		22.7		24.1
82	Silicon		%		2.6		2.2		3		0.38		0.1		0.09		1.9		2		2.1		29.6		36.5		30.7
83																											
84	Carbon Tetrachloride		mg/kg		12500		12500		12500		175		31.5		25		700000		620000		560000		65		65		65
85	Toluene		mg/kg		640000		700000		650000		3600		2400		1600		90000		81000		73000		65		65		65
86	Chlorobenzene		mg/kg		12500		12500		12500		43		31.5		25		140000		120000		110000		65		65		65
87																											
88	Arsenic		mg/L		5		5		5		2000		2130		3420		5		21.4		5		41.9		70.4		64.5
89	Antimony		mg/L		30		30		30		30		30		30		30		30		30		12.4		12.5		12.3
90	Barium		mg/L		5		5		5		15.9		14.2		18		132		27.3		50		5.1		8.1		8.6
91	Beryllium		mg/L		2.5		2.5		2.5		22.1		22.5		28.4		5.76		2.5		25		0.3		0.3		0.3
92	Cadmium		mg/L		2.5		2.5		2.5		2.5		2.5		2.5		2.5		5.51		25		1.2		1.2		1.2
93	Chromium		mg/L		5		5		5		2810		2730		3450		500		139		50		57.0		75.9		127.3
94	Copper		mg/L		12.5		12.5		12.5		50.1		38.8		46.5		447		264		279		34986		49578		52503
95	Lead		mg/L		7.5		7.5		7.5		7.5		16.5		7.5		7.5		68		7.5		12.4		12.4		12.3
96	Mercury		mg/L		10		10		10		10.0		10.0		10.0		10		10		10		0.01		0.01		0.01
97	Nickel		mg/L		20		44.3		20		336		244		307		61		20		200		50.2		68.7		99.1
98	Selenium		mg/L		12.5		12.5		12.5		2.5		2.5		2.5		12.5		12.5		12.5		12.4		12.5		12.3
99	Silver		mg/L		5		5		5		5.0		5.0		5.0		5		5		5		1.3		2.1		1.9
100	Thallium		mg/L		5		5		5		5.0		5.0		5.0		5		5		5		12.4		12.5		12.3
101	Zinc		mg/L		51.6		66.9		48.3		213		81.2		100		3510		1710		2410		4083		5910		9168
102																											
103																											
104	Stack Gas Flowrate		dscfm		13700		13800		13700		13700		13800		13700		13700		13800		13700		13700		13800		13700
105	Oxygen		%		12.0		12.1		11.9		12.0		12.1		11.9		12.0		12.1		11.9		12.0		12.1		11.9
106																											
107	Thermal Feedrate		MMBtu/hr		20.8		20.1		20.1		0.3		0.3		0.3		4.9		5.6		6.0		11.2		11.3		11.1
108	Estimated Firing Rate		MMBtu/hr																								
109																											
110																											
111	*Feedrate MTEC Calculations*																										
112	Ash		mg/dscm		426		512		533		53		114		114		4407		265		269		14598		11528		13318
113	Chlorine		ug/dscm		65562		52954		62274		907665		966294		933841		12041629		13909855		14634702		12024478		11041229		11671488
114	Silicon		ug/dscm		947003		776657		1037902		401061		103903		93384		486789		564294		628484		14647100		17753519		14867829
115																											
116	Arsenic		ug/dscm		209		203		201		219880		230534		369646		97		472		114		1618		2675		2421
117	Antimony		ug/dscm		1256		1217		1207		3298		3247		3243		582		661		685		480		474		460
118	Barium		ug/dscm		209		203		201		1748		1537		1946		2562		602		1142		198		306		324
119	Beryllium		ug/dscm		105		101		101		2430		2435		3070		112		55		571		12		12		12
120	Cadmium		ug/dscm		105		101		101		275		271		270		49		121		571		47		46		46

	B	AD	AF	AH	AJ	AL	AN	AP	AR
61	Silver	1087	1062	1077	1087	1062	1077	1076	724
62	Thallium	1682	1639	1670	1682	1639	1670	1664	724
63	Zinc	557932	420871	413156	557932	420871	413156	463986	24919
64	SVM	4326	4621	4184	4326	4621	4184	4377	2896
65	LVM	1270053	1099293	1273704	1270053	1099293	1273704	1214350	1205165
66									
67									
68									
69									
70	**3020C2**	R1	R2	R3	R1	R2	R3	Cond Avg	
71									
72	Feedstream Number				F5	F5	F5	F5	
73	Feed Class				Total	Total	Total	Total	
74	Feed Class 2	HW	HW	HW	Total	Total	Total	Total	
75	Feedstream Description				Total	Total	Total	Total	
76	Feed Rate				7164	7112	7222	7166	
77	Heating Value								
78	Specific Gravity								
79									
80	Ash								
81	Chlorine								
82	Silicon								
83									
84	Carbon Tetrachloride								
85	Toluene								
86	Chlorobenzene								
87									
88	Arsenic								
89	Antimony								
90	Barium								
91	Beryllium								
92	Cadmium								
93	Chromium								
94	Copper								
95	Lead								
96	Mercury								
97	Nickel								
98	Selenium								
99	Silver								
100	Thallium								
101	Zinc								
102									
103									
104	Stack Gas Flowrate				13700	13800	13700	13733	
105	Oxygen				12.0	12.1	11.9	12	
106									
107	Thermal Feedrate				37.2	37.3	37.5	37	
108	Estimated Firing Rate				39.2	39.1	39.6	39	
109									
110									
111	*Feedrate MTEC Calculati*								
112	Ash	19483	12419	14234	19483	12419	14234	15379	
113	Chlorine	25039333	25970333	27302305	25039333	25970333	27302305	26103990	
114	Silicon	16481954	19198372	16627599	16481954	19198372	16627599	17435975	
115									
116	Arsenic	221805	233884	372382	221805	233884	372382	276024	
117	Antimony	5616	5600	5595	5616	5600	5595	5604	
118	Barium	4717	2648	3613	4717	2648	3613	3660	
119	Beryllium	2658	2604	3753	2658	2604	3753	3005	
120	Cadmium	475	540	988	475	540	988	668	

	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
121	Chromium		ug/dscm		209		203		201		308932		295473		372888		9705		3064		1142		2202		2884		4780
122	Copper		ug/dscm		523		507		503		5508		4199		5026		8676		5819		6374		1352531		1883964		1971077
123	Lead		ug/dscm		314		304		302		825		1786		811		146		1499		171		480		472		460
124	Mercury		ug/dscm		419		406		402		1099		1082		1081		194		220		228		0		0		0
125	Nickel		ug/dscm		837		1798		805		36940		26409		33182		1184		441		4569		1940		2612		3719
126	Selenium		ug/dscm		523		507		503		275		271		270		243		276		286		480		474		460
127	Silver		ug/dscm		209		203		201		550		541		540		97		110		114		48		79		70
128	Thallium		ug/dscm		209		203		201		550		541		540		97		110		114		480		474		460
129	Zinc		ug/dscm		2160		2715		1943		23417		8788		10808		68127		37693		55058		157852		224570		344188
130	SVM		ug/dscm		419		406		402		1099		2056		1081		194		1620		742		527		518		506
131	LVM		ug/dscm		523		507		503		531241		528442		745603		9914		3591		1828		3832		5571		7213

	B	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
121	Chromium		321048		301624		379011		321048		301624		379011		333894		
122	Copper		1367238		1894490		1982980		1367238		1894490		1982980		1748236		
123	Lead		1764		4061		1744		1764		4061		1744		2523		
124	Mercury		1712		1709		1712		1712		1709		1712		1711		
125	Nickel		40901		31259		42275		40901		31259		42275		38145		
126	Selenium		1521		1528		1519		1521		1528		1519		1522		
127	Silver		905		933		926		905		933		926		921		
128	Thallium		1336		1328		1316		1336		1328		1316		1327		
129	Zinc		251557		273766		411997		251557		273766		411997		312440		
130	SVM		2239		4601		2732		2239		4601		2732		3190		
131	LVM		545510		538111		755147		545510		538111		755147		612923		

	B	C	D	E
1	**Process Information**			
2				
3	**3020C1 Trial Burn**			
4				Cond Avg
5	No. 2 Fixed Box Temperature	°C		977
6	No. 2 Fixed Box Pressure	in. w.c.		-0.41
7	Quench Chamber Temperature	°C		75
8	No.1 Packed Column Scrubber Water Flow	gpm		856
9	No.1 Packed Column Scrubber Pressure Drop	in. w.c.		0.67
10	No.1 IWS 1st Stage Voltage	kV		20.8
11	No.1 IWS 2nd Stage Voltage	kV		25.6
12	No.2 Packed Column Scrubber Water Flow	gpm		1083
13	No.2 Packed Column Scrubber Pressure Drop	in. w.c.		0.4
14	No.2 IWS 1st Stage Voltage	kV		18.4
15	No.2 IWS 2nd Stage Voltage	kV		17.1
16				
17	**3020C2 Trial Burn**			Cond Avg
18				
19	No. 2 Fixed Box Temperature	°C		1024
20	No. 2 Fixed Box Pressure	in. w.c.		-0.43
21	Quench Chamber Temperature	°C		75
22	No.1 Packed Column Scrubber Water Flow	gpm		865
23	No.1 Packed Column Scrubber Pressure Drop	in. w.c.		0.70
24	No.1 IWS 1st Stage Voltage	kV		20.7
25	No.1 IWS 2nd Stage Voltage	kV		25.2
26	No.2 Packed Column Scrubber Water Flow	gpm		1094
27	No.2 Packed Column Scrubber Pressure Drop	in. w.c.		0.38
28	No.2 IWS 1st Stage Voltage	kV		17.8
29	No.2 IWS 2nd Stage Voltage	kV		15.9

PCDD/PCDF

Facility Name and ID: GE Silicones, Waterford NY, Fixed Box No. 2
Condition ID: 3020C3
Condition/Test Date: 01-May-01

	I-TEF	Run 1				Run 2				Run 3				Run 4			
	Wght Fact	Total Full ND	TEQ Full ND	Total 1/2 ND	TEQ 1/2 ND	Total Full ND	TEQ Full ND	Total 1/2 ND	TEQ 1/2 ND	Total Full ND	TEQ Full ND	Total 1/2 ND	TEQ 1/2 ND	Total Full ND	TEQ Full ND	Total 1/2 ND	TEQ 1/2 ND
Detected in sample volume (ng)																	
2,3,7,8-TCDD	1																
1,2,3,7,8-PCDD	0.5																
1,2,3,4,7,8-HxCDD	0.1																
1,2,3,6,7,8-HxCDD	0.1																
1,2,3,7,8,9-HxCDD	0.1																
1,2,3,4,6,7,8-HpCDD	0.01																
OCDD	0.001																
2,3,7,8-TCDF	0.1																
1,2,3,7,8-PCDF	0.05																
2,3,4,7,8-PCDF	0.5																
1,2,3,4,7,8-HxCDF	0.1																
1,2,3,6,7,8-HxCDF	0.1																
2,3,4,6,7,8-HxCDF	0.1																
1,2,3,7,8,9-HxCDF	0.1																
1,2,3,4,6,7,8-HpCDF	0.01																
1,2,3,4,7,8,9-HpCDF	0.01																
OCDF	0.001																
Total TCDD	0																
Total PCDD	0																
Total HxCDD	0																
Total HpCDD	0																
Total TCDF	0																
Total PCDF	0																
Total HxCDF	0																
Total HpCDF	0																
Gas sample volume (dscf)																	
O2 (%)																	
PCDD/PCDF (ng in sample)																	
PCDD/PCDF (ng/dscm @ 7% O2)																	
PCDD/PCDF (ng/dscm @ 7% O2)			0.011		0.011		0.0153		0.0153		0.0065		0.0065		0.0048		0.0048
TEQ Cond Avg	0.010																
Total Cond Avg																	