

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase II ID No.	766
4	EPA ID No.	NYD066832023
5	Facility Name	General Electric Plastics
6	Facility Location	
7	City	Selkirk
8	State	NY
9	Unit ID Name/No.	A/P Hot Oil Heater
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Liquid-fired boiler
13	Combustor Type	Liquid-fired, process heater, hot oil
14	Combustor Characteristics	Boiler -- Hot oil heater
15	Capacity (MMBtu/hr)	180
16	Soot Blowing	Not conducted during testing, however is conducted on this boiler.
17	APCS Detailed Acronym	None
18	APCS General Class	
19	APCS Characteristics	NA
20	Hazardous Wastes	Liq
21	Haz Waste Description	Liquid waste byproducts (monomer bottoms)
22	Supplemental Fuel	Natural gas
23		Natural gas (primary); No. 2 and No. 6 may also be used as
24	Stack Characteristics	
25	Diameter (ft)	
26	Height (ft)	
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	300
29		
30	Permitting Status	Tier I A for metals and chlorine
	HWC Burn Status (Date if	
31	Terminated)	

	B	C
1	Cond Description	
2		
3	766C1	
4		
5	Report Name/Date	Boiler and Industrial Furnace Compliance Test Report and Certification of Compliance - General Electric Plastics Plant, August 1998
6	Report Prepare	ENSR
7	Testing Firm	ENSR
8	Testing Dates	July 29, 1998
9	Cond Dates	Jul-98
10	Condition Descr	CoC, max HW feed rate ??
11	Content	PM, CO emissions; ash, metals, and chlorine analysis of feedstreams

	B	C	D	E	F	G	H	I	J	K	L	M
1	Stack Gas Emissions											
2												
3		Comme	Units	7%	O2							
4												
5												
6	766C1					R1	R2	R3		Cond Avg		
7												
8	PM	E1	gr/dscf	y		0.0059	0.0022	0.0025		0.0035		
9	CO (RA)	E1	ppmv	y		0.2	0.2	0.3		0.2		
10	CO (MHRA)	E1	ppmv	y		0.2	0.3	0.3		0.3		
11												
12	Sampling Train	PM	E1									
13	Stack Gas Flowrate		dscfm			19218	18052	17049		18106.3		
14	O2		%			4.8	4.8	4.9		4.8		
15	Moisture		%									
16	Temperature		°F			301	302	297		300.0		

	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
1	Feedstreams																									
2																										
3																										
4	766C1																									
5	Feedstream Number																									
6	Feed Class																									
7	Feed Class 2																									
8	Feedstream Description																									
9	Feed Rate	g/hr																								
10	Feed Rate	scf/hr																								
11	Feed Rate	MMBtu/hr																								
12	Thermal Feedrate	MMBtu/hr																								
13	Heating Value	Btu/lb																								
14	Heating Value	Btu/scf																								
15	Ash	g/hr																								
16	Chlorine	g/hr	nd																							
17	Antimony	g/hr	nd																							
18	Arsenic	g/hr	nd																							
19	Barium	g/hr	nd																							
20	Beryllium	g/hr	nd																							
21	Cadmium	g/hr	nd																							
22	Chromium	g/hr	nd																							
23	Lead	g/hr	nd																							
24	Mercury	g/hr	nd																							
25	Silver	g/hr	nd																							
26	Thallium	g/hr	nd																							
27	Stack Gas Flowrate	dscfm																								
28	Stack Gas Flowrate	%																								
29	Oxygen																									
30	Estimated Firing Rate	MMBtu/hr																								
31	Estimated Firing Rate																									
32	Estimated Firing Rate																									
33	Feedrate MTEC Calculations																									
34	Ash	mg/dscm																								
35	Chlorine	ug/dscm																								
36	Antimony	ug/dscm																								
37	Arsenic	ug/dscm																								
38	Barium	ug/dscm																								
39	Beryllium	ug/dscm																								
40	Cadmium	ug/dscm																								
41	Chromium	ug/dscm																								
42	Lead	ug/dscm																								
43	Mercury	ug/dscm																								
44	Silver	ug/dscm																								
45	Thallium	ug/dscm																								
46																										
47	SVM	ug/dscm																								
48	LVM	ug/dscm																								
49																										
50	BIF Feedrate Limits																									
51																										
52	Arsenic	g/hr																								
53	Antimony	g/hr																								
54	Barium	g/hr																								
55	Beryllium	g/hr																								
56	Cadmium	g/hr																								
57	Chromium	g/hr																								
58	Lead	g/hr																								
59	Mercury	g/hr																								
60	Silver	g/hr																								

	B	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1	Feedstreams									
2										
3										
4	766C1	Cond Avg	R1	R2	R3	Cond Avg				
5										
6	Feedstream Number	F3	F4	F4	F4	F4				
7	Feed Class	NG	Total	Total	Total	Total				
8	Feed Class 2	MF	Total	Total	Total	Total				
9	Feedstream Descriptic	Nat gas	Total	Total	Total	Total				
10	Feed Rate									
11	Feed Rate	2200								
12	Thermal Feedrate	2.2	73.0	70.5	71.4	70.2				
13	Heating Value									
14	Heating Value	1000								
15	Ash					128.2				
16	Chlorine					13				
17	Antimony					10				
18	Arsenic					1				
19	Barium					1				
20	Beryllium					0.1				
21	Cadmium					1				
22	Chromium					1.1				
23	Lead					1				
24	Mercury					0.1				
25	Silver					1.5				
26	Thallium					0.5				
27										
28	Stack Gas Flowrate					18106				
29	Oxygen					4.8				
30										
31	Estimated Firing Rate									92.9
32										
33	Feedrate /MTEC Calc									
34	Ash	0	3.4	0	3.6	0	3.9	0	3.6	
35	Chlorine	100	344.3	100	366.5	100	390.5	100	367.1	
36	Antimony	100	264.8	100	281.9	100	300.4	100	282.4	
37	Arsenic	100	26.5	100	28.2	100	30.0	100	28.2	
38	Barium	100	26.5	100	28.2	100	30.0	100	28.2	
39	Beryllium	100	2.6	100	2.8	100	3.0	100	2.8	
40	Cadmium	100	26.5	100	28.2	100	30.0	100	28.2	
41	Chromium	100	29.1	100	31.0	100	33.0	100	31.1	
42	Lead	100	26.5	100	28.2	100	30.0	100	28.2	
43	Mercury	100	2.6	100	2.8	100	3.0	100	2.8	
44	Silver	100	39.7	100	42.3	100	45.1	100	42.4	
45	Thallium	100	13.2	100	14.1	100	15.0	100	14.1	
46										
47	SVM	100	53.0	100	56.4	100	60.1	100	56.5	
48	LVM	100	58.3	100	62.0	100	66.1	100	62.1	
49										
50	BIF Feedrate Limits									
51										
52	Arsenic									
53	Antimony									
54	Barium									
55	Beryllium									
56	Cadmium									
57	Chromium									
58	Lead									
59	Mercury									
60	Silver									

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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	AA
61	Thallium																								
62	Chlorine																								
											4651														
											3721														

B		AB	AC	AD	AE	AF	AG	AH	AI	AJ
61	Thallium									
62	Chlorine									

	A	B	C
1	Process Information		
2			Cond Avg
3	766C1		
4			
5	Boiler Operating Load	%	40