

US EPA ARCHIVE DOCUMENT

	B	C
1	<b>Source Description</b>	
2		
3	Phase I ID No.	725
4	EPA ID No.	NJD001707944
5	Facility Name	Zeneca
6	Facility Location	
7	City	Bayonne
8	State	NJ
9	Unit ID Name/No.	LV-3 Incinerator
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	WS/QT
18	APCS General Class	LEWS, WQ
19	APCS Characteristics	Wet scrubber, quench tower
20	Hazardous Wastes	Liq
21	Haz Waste Description	Liquid still tops and bottoms
22	Supplemental Fuel	?
23		
24	Stack Characteristics	
25	Diameter (ft)	1.0
26	Height (ft)	137.0
27	Gas Velocity (ft/sec)	11.8
28	Gas Temperature (°F)	164.7
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Condition Description</b>	
2		
3	<b>725C1</b>	
4		
5	Report Name/Date	Stationary Source Sampling Report, prepared for ICI Americas Inc., prepared by Entropy Environmentalists, Hazardous Waste Incineration Testing, LV-3 Incinerator Stack, June 19-21, 1990, Bayonne, New Jersey, Reference # 6743
6	Report Prepare	Entropy Inc.
7	Testing Firm	Entropy Inc.
8	Cond Descr	?
9	Testing Dates	June 19-21, 1990
10	Cond Dates	Jun-90
11		
12	<b>725C2</b>	
13		
14	Report Name/Date	Stationary Source Sampling Report, Reference No. 11112, ICI Americas, Inc., Bayonne, New Jersey, LV-3 Incinerator, August 26-27, 1992
15	Report Prepare	
16	Testing Firm	
17	Cond Descr	?
18	Testing Dates	August 26-27, 1992
19	Cond Dates	Aug-92

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	<b>Stack Gas Emissions 2</b>																			
2																				
3																				
4	<b>725C1</b>					R1		R2		R3		R4		R5		R6		R7		Cond Avg
5																				
6	PM	E4	gr/dscf	y		0.0199		0.0159				0.0288								0.0215
7	CO (RA)	E4	ppmv	y	nd	6.0	nd	6.1	nd	6.1	nd	6.03	nd	6.1	nd	6.1	nd	6.1		6.1
8	HC (RA)	E4	ppmv	y		1.6		2.6		0.5										1.6
9	HCl	E2	ppmv	y		3.4		1.7		3.6										2.9
10	Cl2	E2	ppmv	y		31.0		31.7		45.8										36.2
11	Total Chlorine	E2	ppmv	y		65.4		65.1		95.2										75.2
12	Antimony	E3	ug/dscm	y										11.3		1.2		14.7		9.04
13	Arsenic	E3	ug/dscm	y										1.1		1.7	nd	2.1		1.60
14	Barium	E3	ug/dscm	y									nd	17.9	nd	25.0	nd	19.2		20.68
15	Beryllium	E3	ug/dscm	y									nd	0.045	nd	0.049	nd	0.048		0.05
16	Cadmium	E3	ug/dscm	y									nd	4.5	nd	4.9	nd	4.8		4.70
17	Chromium	E3	ug/dscm	y										34.8		40.1		45.1		39.99
18	HF		ug/dscm	y	nd	0.1	nd	0.1	nd	0.1										
19	Lead	E3	ug/dscm	y										39.4		24.3		34.6		32.74
20	Mercury	E3	ug/dscm	y									nd	1.6	nd	1.8	nd	1.5	100	1.65
21	Silver	E3	ug/dscm	y									nd	4.5	nd	4.9	nd	4.8		4.70
22	Thallium	E3	ug/dscm	y									nd	0.4	nd	0.5	nd	0.5		0.47
23																				
24	SVM	E3	ug/dscm	y										43.8		29.1		39.4		37.4
25	LVM	E3	ug/dscm	y										35.9		41.8		47.2		41.6
26																				
27	Sampling Train	Dioxin & FuranE1																		
28	Stack Gas Flowrate		dscfm											769.0		764.0		745.0		
29	O2		%											9.6		9.5		9.5		
30	Moisture		%											29.9		33.0		31.1		
31	Temperature		°F											157.0		160.0		159.0		
32																				
33	Sampling Train	Halogens		E2																
34	Stack Gas Flowrate		dscfm			842.0		845.0		813.0										
35	O2		%			9.4		9.6		9.6										
36	Moisture		%			31.8		32.4		32.5										
37	Temperature		°F			159.0		161.0		160.0										
38																				
39	Sampling Train	Metals		E3																
40	Stack Gas Flowrate		dscfm											789.0		760.0		778.0		
41	O2		%											9.6		9.5		9.5		
42	Moisture		%											29.5		32.4		30.2		
43	Temperature		°F											156.0		160.0		157.0		
44																				
45	Sampling Train	Particulate		E4																
46	Stack Gas Flowrate		dscfm			840.0		862.0				788.0								
47	O2		%			9.4		9.6		9.4										
48	Moisture		%			31.8		28.8		28.8										
49	Temperature		°F			159.0		160.0		155.0										
50																				
51	Chlorobenzene	DRE	%			99.9998		99.9997		99.9998										
52	Freon 22	DRE	%			99.9992		99.9992		99.9992										
53	Toluene	DRE	%			99.7609		99.8906		99.9098										

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
54																				
55	<b>725C2</b>					R1		R2		R3										Cond Avg
56																				
57	CO (RA)	E1	ppmv	y		2.2		2.5		1.0										1.9
58	HC (RA)	E1	ppmv	y		3.9		2.5		0.7										2.4
59	HCl	E1	ppmv	y		7.4		6.0		7.8										7.1
60	Cl2	E1	ppmv	y		66.4		85.2		84.9										78.8
61	Total Chlorine	E1	ppmv	y		140.2		176.35		177.61										164.7
62	HF	E1	ppmv	y	nd	0.5	nd	0.5	nd	0.5										
63																				
64	Sampling Train	Halogens	E1																	
65	Stack Gas Flowrate		dscfm			930.0		1009.0		1054.0										
66	O2		%			9.0		8.9		8.8										
67	Moisture		%			35.6		35.4		35.5										
68	Temperature		°F			165.0		164.0		165.0										
69																				
70	1,1-Dichloroethene	DRE	%			99.9997		99.9997		99.9997										
71	Chlorobenzene	DRE	%			99.9979		99.9985		99.9985										
72	Freon 22	DRE	%			99.9973		99.9969		99.9968										

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	<b>Feedstreams 2</b>																							
2																								
3																								
4																								
5																								
6	<b>725C1</b>		R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1			
8	Feedstream Number		F1	F1	F1	F1	F2	F2	F2															F3
9	Feed Class		Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW															Total
10	Feed Class 2																							Total
11	Feedstream Description		Liq still tops	Liq still tops	Liq still tops	Liq still bottoms	Liq still bottoms	Liq still bottoms							HW		HW			HW				Total
12	Feed Rate	lb/hr	17.34	16.46	16.49	14.52	14.52	14.52																Total
13	Heating value																							
14	Ash																							
15	Chlorobenzene	lb/hr																						1.6
16	Freon-22	lb/hr																						38.78
17	Toluene	lb/hr																						1.92
18																								
19	Chlorine	lb/hr																						16.4
20																								
21	Stack gas flowrate		842	845	813	842	845	813																842
22	Oxygen		9.4	9.6	9.6	9.4	9.6	9.6																9.4
23																								
24	Estimated Firing Rate	MMBtu/hr																						3.10
25																								
26	<i>Feedrate MTEC Calculation</i>																							
27	Chlorine	ug/dscm																						6.29E+06
28																								
29																								
30	<b>725C2</b>		R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1			
32	Feedstream Number		F1	F1	F1	F2	F2	F2																F3
33	Feed Class		Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW																Total
34	Feed Class 2																							Total
35	Feedstream Description		Liq still tops	Liq still tops	Liq still tops	Liq still bottoms	Liq still bottoms	Liq still bottoms							HW		HW			HW				Total
36	Feed Rate	lb/hr	35.5	33.5	34.4	14.38	14.38	14.26																Total
37	Heating value																							
38	Ash																							
39																								
40	Chlorobenzene	lb/hr				1.58	1.58	1.58																1.6
41	Di-Chloroethane	lb/hr				1.6	1.6	1.58																1.6
42	Freon-22	lb/hr	35.5	33.5	34.4	11.2	11.2	11.1																46.7
43																								
44	Chlorine	lb/hr	14.6	13.7	14.1	6.2	6.2	6.2																20.8
45																								
46	Stack gas flowrate		930	1009	1054	930	1009	1054																930
47	Oxygen		9.0	8.9	8.8	9.0	8.9	8.8																9.0
48																								
49	Estimated Firing Rate	MMBtu/hr																						3.54
50																								
51	<i>Feedrate MTEC Calculation</i>																							
52	Chlorine	ug/dscm	4.89E+06	4.22E+06	4.11E+06	2.09E+06	1.91E+06	1.80E+06	6.98E+06	6.13E+06	5.91E+06	6.98E+06	6.13E+06	5.91E+06	6.98E+06	6.13E+06	5.91E+06	6.98E+06	6.13E+06	5.91E+06	6.98E+06	6.13E+06	5.91E+06	6.98E+06

	Z	AA	AB	AC	AD
1					
2					
3					
4					
5					
6	R2		R3		Cond Avg
7					
8	F3		F3		F3
9	Total		Total		Total
10	Total		Total		Total
11	Total		Total		Total
12					
13					
14					
15	1.6		1.6		
16	37.37		37.43		
17	1.92		1.92		
18					
19	15.8		15.9		
20					
21	845		813		833
22	9.6		9.6		10
23					
24	3.06		2.94		3.03
25					
26					
27	6.16E+06		6.41E+06		6.29E+06
28					
29					
30	R2		R3		Cond Avg
31					
32	F3		F3		F3
33	Total		Total		Total
34	Total		Total		Total
35	Total		Total		Total
36					
37					
38					
39					
40	1.6		1.6		
41	1.6		1.6		
42	44.7		45.5		
43					
44	20.0		20.3		
45					
46	1009		1054		
47	8.9		8.8		
48					
49	3.88		4.08		3.83
50					
51					
52	6.13E+06		5.91E+06		6.34E+06

	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	<b>725C1</b>													
2					Run 1			Run 2			Run 3			
3	ng/dscm	I-TEF		Total	Total	TEQ		Total	Total	TEQ		Total	Total	TEQ
4		Wt Fact		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND		Full ND	1/2 ND	1/2 ND
5	4D 2378	1	1	0.007	0.004	0.004	1	0.014	0.007	0.007	1	0.004	0.002	0.002
6	4D Other	0		0.131	0.131	0.000		0.149	0.149	0.000		0.016	0.016	0.000
7	4D Total	0		0.138	0.138	0.000		0.163	0.163	0.000		0.020	0.020	0.000
8	5D 12378	0.5	1	0.043	0.022	0.011		0.043	0.043	0.021	1	0.005	0.002	0.001
9	5D Other	0		0.222	0.222	0.000		0.265	0.265	0.000		0.048	0.048	0.000
10	5D Total	0		0.265	0.265	0.000		0.308	0.308	0.000		0.053	0.053	0.000
11	6D 123478	0.1		0.036	0.036	0.004	1	0.052	0.026	0.003	1	0.007	0.004	0.000
12	6D 123678	0.1		0.068	0.068	0.007	1	0.085	0.043	0.004		0.020	0.020	0.002
13	6D 123789	0.1		0.166	0.166	0.017		0.121	0.121	0.012		0.033	0.033	0.003
14	6D Other	0		0.596	0.596	0.000		0.657	0.657	0.000		0.054	0.054	0.000
15	6D Total	0		0.866	0.866	0.000		0.915	0.915	0.000		0.115	0.115	0.000
16	7D 1234678	0.01		0.470	0.470	0.005		0.469	0.469	0.005		0.062	0.062	0.001
17	7D Other	0		0.566	0.566	0.000		0.489	0.489	0.000		0.112	0.112	0.000
18	7D Total	0		1.036	1.036	0.000		0.958	0.958	0.000		0.174	0.174	0.000
19	8D	0.001		0.711	0.711	0.001		1.220	1.220	0.001		0.256	0.256	0.000
20	4F 2378	0.1		0.057	0.057	0.006		0.048	0.048	0.005		0.033	0.033	0.003
21	4F Other	0		1.250	1.250	0.000		0.752	0.752	0.000		0.201	0.201	0.000
22	4F Total	0		1.307	1.307	0.000		0.800	0.800	0.000		0.234	0.234	0.000
23	5F 12378	0.05		0.120	0.120	0.006	1	0.085	0.042	0.002		0.033	0.033	0.002
24	5F 23478	0.5		0.205	0.205	0.103	1	0.142	0.071	0.036		0.044	0.044	0.022
25	5F Other	0		1.160	1.160	0.000		1.170	1.170	0.000		0.289	0.289	0.000
26	5F Total	0		1.485	1.485	0.000		1.397	1.397	0.000		0.367	0.367	0.000
27	6F 123478	0.1		0.299	0.299	0.030		0.281	0.281	0.028		0.084	0.084	0.008
28	6F 123678	0.1		0.165	0.165	0.017		0.135	0.135	0.014		0.039	0.039	0.004
29	6F 123789	0.1	1	0.011	0.006	0.001	1	0.020	0.010	0.001	1	0.007	0.004	0.000
30	6F 234678	0.1		0.173	0.173	0.017		0.120	0.120	0.012		0.040	0.040	0.004
31	6F Other	0		0.831	0.831	0.000		0.709	0.709	0.000		0.121	0.121	0.000
32	6F Total	0		1.479	1.479	0.000		1.265	1.265	0.000		0.292	0.292	0.000
33	7F 1234678	0.01	1	0.588	0.294	0.003		0.482	0.482	0.005		0.132	0.132	0.001
34	7F 1234789	0.01	1	0.051	0.025	0.000	1	0.033	0.016	0.000	1	0.010	0.005	0.000
35	7F Other	0		0.216	0.216	0.000		0.243	0.243	0.000		0.037	0.037	0.000
36	7F Total	0		0.855	0.855	0.000		0.758	0.758	0.000		0.178	0.178	0.000
37	8F	0.001		0.222	0.222	0.000	1	0.265	0.133	0.000	1	0.028	0.014	0.000
38	Total PCDD/PCDF			8.364	8.364			8.047	7.915			1.716	1.702	
39	TEQ		14.7	0.247		0.229	50.6	0.208		0.155	13.2	0.059		0.055