

US EPA ARCHIVE DOCUMENT

	B	C
1	<b>Source Description</b>	
2		
3	Phase I ID No.	3002
4	EPA ID No.	LAD008187080
5	Facility Name	Dow Chemical Louisiana Division
6	Facility Location	
7	City	Plaquemine
8	State	LA
9	Unit ID Name/No.	Solvents incinerator TOX R-700
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
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	WS
18	APCS General Class	LEWS
19	APCS Characteristics	2 packed bed wet scrubbers
20	Hazardous Wastes	Liq
21	Haz Waste Description	Aqueous liquid, solvents
22	Supplemental Fuel	Natural gas
23		
24	Stack Characteristics	
25	Diameter (ft)	
26	Height (ft)	
27	Gas Velocity (ft/sec)	
28	Gas Temperature (°F)	
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Condition Description</b>	
2		
3	<b>3002C1</b>	
4		
5	Report Name/Date	Trial Burn Report for Dow Chemical U.S.A. Louisiana Division Solvents Incinerator
6	Report Prepare	Dow Chemical
7	Testing Firm	Dow?
8	Testing Dates	June 23-24, 1987
9	Cond Dates	Jun-87
10	Condition Descr	Trial burn
11	Content	PM, HCl, HBr, DRE, CO
12		
13	<b>3002C2</b>	
14		
15	Report Name/Date	Trial Burn Report for Dow Chemical U.S.A. Louisiana Division Solvents Incinerator
16	Report Prepare	Dow Chemical
17	Testing Firm	Dow?
18	Testing Dates	June 25-26, 1987
19	Cond Dates	Jun-87
20	Condition Descr	Trial burn
21	Content	PM, HCl, HBr, DRE, CO

	B	C	D	E	F	G	H	I	J	K	L	M
1	<b>Stack Gas Emissions 1</b>											
2												
3		Comn Units		7% O2								
4												
5	<b>3002C1</b>					R1		R2		R3		Cond Avg
6												
7	PM		mg/dscm	y		16.6		24		21.7		
8	PM	E1	gr/dscf	y		0.0072		0.0105		0.0095		0.0091
9	CO (RA)		ppmv	n		20		22		25		
10	CO (RA)	E1	ppmv	y		44.4		24.6		27.6		32.2
11	HCl		lb/hr			0.132	nd	0.03	nd	0.019		
12	HBr		lb/hr			0.003	nd	0.0003	nd	0.001		
13												
14	POHC		Carbon Tetrachloride (CCl4)									
15	POHC Feedrate		lb/hr			3871.1		4481.1		5135.1		
16	Emission Rate	E1	lb/hr			0.004663		0.00488		0.004372		
17	DRE	E1	%			99.99988		99.99989		99.99991		
18												
19	POHC		C6H4Cl2									
20	POHC Feedrate		lb/hr			147.3		93.1		102.1		
21	Emission Rate	E1	lb/hr		nd	2.32E-06	nd	2.36E-06	nd	2.60E-06		
22	DRE	E1	%		>	99.99999	>	99.99999	>	99.99999		
23												
24	Sampling Train		PM, H E1									
25	Stack Gas Flowrate		dscfm			5329.25		5393.0		5406.7		5376.3
26	O2		%			14.7		8.5		8.3		10.5
27	Moisture		%			4.9		5		5		5.0
28	Temperature		°F			92		95		92		93.0
29												
30	HCl	E1	ppmv	y		9.83	nd	1.11	nd	0.69		3.88
31	Total Chlorine	E1	ppmv	y		9.83	100	1.11	100	0.69		3.88
32												
33												
34	<b>3002C2</b>					R1		R2		R3		Cond Avg
35												
36	PM		mg/dscm	y		16.9		15.6		15.3		
37	PM	E1	gr/dscf	y		0.00737		0.00681		0.00668		0.00695
38	CO (RA)		ppmv	n		23		27		25		25.0
39												
40	HCl		lb/hr		nd	0.013	nd	0.02	nd	0.033		
41	HBr		lb/hr		nd	0.001	nd	0.003	nd	0.0003		
42												
43	POHC		Carbon Tetrachloride (CCl4)									
44	POHC Feedrate		lb/hr			4517.8		3757		3987.6		
45	Emission Rate	E1	lb/hr			0.00468		0.004503		0.006089		
46	DRE	E1	%			99.99989		99.99988		99.99985		
47												
48	POHC		C6H4Cl2									
49	POHC Feedrate		lb/hr			5.8		135.7		44.7		
50	Emission Rate	E1	lb/hr			9.488E-05		0.000172		4.33E-06		
51	DRE	E1	%			99.99837		99.99987		99.99999		
52												
53	Sampling Train		PM, H E1									
54	Stack Gas Flowrate		dscfm			5258.6		5085.8		5057.4		5133.9
55	O2		%			6.6		6.3		5.2		6.0
56	Moisture		%			5.2		5.5		4.8		5.2
57	Temperature		°F			96		92		96		94.7
58												
59	HCl	E1	ppmv	y	nd	0.43	nd	0.67	nd	1.03	100	0.71
60	Total Chlorine	E1	ppmv	y	100	0.43	100	0.67	100	1.03	100	0.71

	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 1</b>																							
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	B	Z	AA	AB	A	AD	A	AF	A	AH	A	AJ
1	Feedstreams 1											
2												
3												
4	3002C1	R3		Cond Avg		R1	R2	R3				Cond Avg
5												
6	Feedstream Number											
7	Feed Class					F3	Total	F3	Total	F3	Total	F3
8	Feed Class 2					Total	Total	Total	Total	Total	Total	Total
9	Feedstream Description					Total	Total	Total	Total	Total	Total	Total
10	Feed Rate											
11	Density											
12	Heating Value											
13	Ash											
14	Chlorine											
15												
16	Stack Gas Flowrate					5329.25	5393.0	5406.7		5376.3		
17	Oxygen					14.7	8.5	8.3		10.5		
18												
19	Thermal Feedrate					25.3	22.5	22.8		23.5		
20	Estimated Firing Rate											
21												
22	Feedrate MTEC Calculation											
23	Ash											
24	Chlorine					90.3	65.0	90.3		65.0		
25						391493374.0	430666592.1	391493374		430666592		
26												
27												
28	3002C2	R3		Cond Avg		R1	R2	R3				Cond Avg
29												
30	Feedstream Number											
31	Feed Class					F3	Total	F3	Total	F3	Total	F3
32	Feed Class 2					Total	Total	Total	Total	Total	Total	Total
33	Feedstream Description					Total	Total	Total	Total	Total	Total	Total
34	Feed Rate											
35	Density											
36	Heating Value											
37	Ash											
38	Chlorine											
39												
40	Stack Gas Flowrate					5258.6	5085.8	5057.4		5133.9		
41	Oxygen					6.6	6.3	5.2		6.0		
42												
43	Thermal Feedrate					21.4	24.5	22.1		22.6		
44	Estimated Firing Rate											
45												
46	Feedrate MTEC Calculation											
47	Ash											
48	Chlorine					41.6	43.9	41.6		43.9		
						196650041.1	215678963.0	196650041		215678963		
						235476126	214910722	196650041		215678963		

	B	C	D	E	F	G
1	<b>Process Information</b>					
2				R1	R2	R3
3	<b>3002C1</b>					
4						
5	Reactor Temperature	C		1106	1107	1101
6	Scrubber C-730 pH			9.1	9.7	9.7
7	Scrubber C-730 Liquid Flowrate	gpm		542	544	543
8	Scrubber C-703 NaOH Feedrate	gpm		15	17	19
9						
10	<b>3002C2</b>					
11						
12	Reactor Temperature	C		1227	1274	1295
13	Scrubber C-730 pH			9.1	9.6	8.8
14	Scrubber C-730 Liquid Flowrate	gpm		551	550	550
15	Scrubber C-703 NaOH Feedrate	gpm		20	22	13