	B	C
1	**Source Description**	
2		
3	Phase I ID No.	808
4	EPA ID No.	LAD008187080
5	Facility Name	Dow Chemical Co.
6	Facility Location	
7	City	Plaquemine
8	State	LA
9	Unit ID Name/No.	I-200 (not I-300?)
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Onsite incinerator
13	Combustor Type	Rotary kiln
14	Combustor Characteristics	Rotary kiln with afterburner
15	Capacity (MMBtu/hr)	
16	Soot Blowing	
17	APCS Detailed Acronym	QT/PBS/WESP
18	APCS General Class	WQ, LEWS, WESP
19	APCS Characteristics	Quench tower, packed bed scrubber, wet electrostatic precipitator
20	Hazardous Wastes	liq,solid,sludge
21	Haz Waste Description	HW sludge.solid,liquid
22	Supplemental Fuel	Natural gas, oil
23		diesel
24	Stack Characteristics	
25	Diameter (ft)	4.0
26	Height (ft)	100.0
27	Gas Velocity (ft/sec)	15.2
28	Gas Temperature (°F)	143.0
29		
30	Permitting Status	
31	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**808C1**	
4		
5	Report Name/Date	Dow Chemical Trial Burn Report for Rotary Kiln, Prepared by Dow Chemical, Plaquemine, Louisiana, February 10, 1998
6	Report Prepare	Dow Chemical
7	Testing Firm	Dow Chemical
8	Cond Descr	Trial burn, LOW HEATING/LOW TEMP
9	Testing Dates	Nov 17-18, 1987
10	Cond Dates	Nov-87
11		
12	**808C2**	
13		
14	Report Name/Date	Dow Chemical Trial Burn Report for Rotary Kiln, Prepared by Dow Chemical, Plaquemine, Louisiana, February 10, 1998
15	Report Prepare	Dow Chemical
16	Testing Firm	Dow Chemical
17	Cond Descr	Trial burn, HIGH HEATING/HIGH TEMP
18	Testing Dates	Nov 19-20, 1987
19	Cond Dates	Nov-87

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 2**											
2												
3												
4	**808C1**					R1		R2		R3		Cond Avg
5												
6	PM	E1	gr/dscf	y		0.0596		0.0134		0.0089		0.0273
7	CO (RA)	E1	ppmv	y		487.2		29.1		89.1		201.8
8	HCl	E1	ppmv	y		0.9		0.3		0.7		0.64
9	Total Chlorine	E1	ppmv	y		0.9		0.3		0.7		0.64
10	HBr	E1	ppmv	y		21.8		19.2		25.8		
11												
12	Sampling Train	PM/Halogens	E1									
13	Stack Gas Flowrate		dscfm			29167.0		26850.0		26717.0		
14	O2		%			13.5		13.3		13.3		
15	Moisture		%			19.5		16.0		16.5		
16	Temperature		°F			135.0		128.0		130.0		
17												
18	Carbon Tetrachloride	DRE	%			99.99952		99.99997		99.99992		
19	o-Dichlorobenzene	DRE	%			99.99912		99.9997		99.99953		
20	Tetrachloroethylene	DRE	%			99.99216		99.9999		99.99984		
21												
22	**808C2**					R1		R2		R3		Cond Avg
23												
24	PM	E1	gr/dscf	y		0.0067		0.0082		0.0178		0.0109
25	CO (RA)	E1	ppmv	y	nd	12.0	nd	12.5	nd	13.6		12.6860
26	HCl	E1	ppmv	y		0.1		0.6		0.1		0.28
27	Total Chlorine	E1	ppmv	y		0.1		0.6		0.1		0.28
28	HBr	E1	ug/dscm	y		1.1		13.1		21.3		
29												
30	Sampling Train	PM/Halogens	E1									
31	Stack Gas Flowrate		dscfm			24217.0		24300.0		24183.0		
32	O2		%			9.3		9.8		10.7		
33	Moisture		%			26.2		27.6		25.6		
34	Temperature		°F			144.0		146.0		139.0		
35												
36	Carbon Tetrachloride	DRE	%			99.99974		99.99959		99.99979		
37	o-Dichlorobenzene	DRE	%			99.9997		99.99972		99.99976		
38	Tetrachloroethylene	DRE	%			99.99995		99.99998		99.99993		

	B	D	F	H	J	L	N	P	R	T	V	X	Z	AB	AD	AF	AH
1	**Feedstream 2**																
2																	
3																	
4	**808C1**		R1	R2	R3	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	F5	F5	F5
7	Feed Class		Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW
8	Feed Class 2																
9	Feedstream Description		BR-200	BR-200	BR-200	BR-201	BR-201	BR-201	BR-202	BR-202	BR-202	BR-203	BR-203	BR-203	BR-210	BR-210	BR-210
10	Feedrate	lb/hr	1820	1168.2	1050.5	1406.3	1323.8	1260.8	1190.4	488.8	491.2	2366	1872.8	2572.4	263	660.1	497.4
11	Heating value	Btu/lb	0	0	0	3096	2996	2897	5233	5056	5129	867	1746	1195	11893	12230	9949
12	Ash	% wt	0.1	0.1	0.1	0.2	0.1	0.1	75.5	78.3	79.1	8.7	9.7	15.15	0	0	0.1
13	Chlorine	ppmw				634289	657199	637690									
14	Bromine	ppmw				18488	20396	19194									
15	Fluorine	ppmw				33990	35957	35136									
16																	
17	Stack Gas Flow	dscfm	29167	26850	26717	29167	26850	26717	29167	26850	26717	29167	26850	26717	29167	26850	26717
18	Oxygen	%	13.5	13.3	13.3	13.5	13.3	13.3	13.5	13.3	13.3	13.5	13.3	13.3	13.5	13.3	13.3
19																	
20	Estimated Firing Rate	MMBtu/hr															
21																	
22	*Feedrate MTEC Calculations*																
23	Ash	mg/dscm	31.1	21.2	19.1	48.1	24.0	22.9	15379.2	6929.5	7069.7	3522.3	3289.1	7091.2	0.0	0.0	9.1
24	Chlorine	ug/dscm	0.0	0.0	0.0	15263637.1	15751809.1	14629309.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25																	
26																	
27																	
28	**808C2**		R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3
29																	
30	Feedstream Number		F1	F1	F1	F2	F2	F2	F3	F3	F3	F4	F4	F4	F5	F5	F5
31	Feed Class		Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW	Liq HW
32	Feed Class 2																
33	Feedstream Description		BR-200	BR-200	BR-200	BR-201	BR-201	BR-201	BR-202	BR-202	BR-202	BR-203	BR-203	BR-203	BR-210	BR-210	BR-210
34	Feedrate	lb/hr	2877.9	2900.1	2864.3	1242.3	1384.9	1480.6	49.9	51.7	69.5	489	195	318	1279.7	1324.9	1354.6
35	Heating value	Btu/lb	0	0	0	2613	3319	3436	5169	5284	5176	0	0	0	10959	11300	11543
36	Ash	% wt	0	0	0	0.1	0.3	0.2	80	76.1	75.7	22.5	22.5	20.8	0	0	0
37	Chlorine	ppmw				676970	665752	649737									
38	Bromine	ppmw				20687	20074	19789									
39	Cadmium	ppmw															
40	Fluorine	ppmw				37028	36393	35999									
41	Lead	ppmw															
42	Mercury	ppmw															
43																	
44	Stack Gas Flow	dscfm	24217	24300	24183	24217	24300	24183	24217	24300	24183	24217	24300	24183	24217	24300	24183
45	Oxygen	%	9.3	9.8	10.7	9.3	9.8	10.7	9.3	9.8	10.7	9.3	9.8	10.7	9.3	9.8	10.7
46																	
47	Estimated Firing Rate	MMBtu/hr															
48																	
49																	
50	*Feedrate MTEC Calculations*																
51	Ash	mg/dscm	0.000	0.000	0.000	16.4	57.1	44.5	527.4	541.1	790.6	1453.6	603.4	994.0	0.0	0.0	0.0
52	Chlorine	ug/dscm	0.000	0.000	0.000	11110561	12680980	14456857	0	0	0	0	0	0	0	0	0
53	Cadmium	ug/dscm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54																	
55	Lead	ug/dscm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	Mercury	ug/dscm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	SVM	ug/dscm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	AJ	AL	AN	AP	AR	AT	AV	AX	AZ	BB	BD	BF	BH
1													
2													
3													
4	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	Cond Avg
5													
6	F6	F6	F6	F6	F6	F6				F7	F7	F7	F7
7	Liq HW	Liq HW	Liq HW	Solid HW	Solid HW	Solid HW				Total	Total	Total	Total
8							HW	HW	HW	Total	Total	Total	Total
9	BR-211	BR-211	BR-211	Plastic packs	Plastic packs	Plastic packs				Total	Total	Total	Total
10	1400.2	1368.9	1446.9	6243	6045	6278							
11	10370	10770	10422	43062	38748	40098							
12	0	0.2	0.1	63.7	59.4	54.9							
13	417797	406166	431267	3203.59									
14													
15													
16													
17	29167	26850	26717	29167	26850	26717				29167	26850	26717	27578
18	13.5	13.3	13.3	13.5	13.3	13.3				13.5	13.3	13.3	13.4
19													
20													67
21													
22													
23	0.0	49.6	26.3	68049.7	65012.1	62713.6	87030.4	75325.4	76951.9	87030.4	75325.4	76951.9	79769.2
24	10010345.0	10066673.4	11354091.2	342234.0	0.0	0.0	25616216	25818483	25983401	25616216	25818483	25983401	25806033
25													
26													
27													
28	R1	R2	R3	R1	R2	R3	R1	R2	R3	R1	R2	R3	Cond Avg
29													
30	F6	F6	F6	F6	F6	F6				F7	F7	F7	F7
31	Liq HW	Liq HW	Liq HW	Solid HW	Solid HW	Solid HW				Total	Total	Total	Total
32							HW	HW	HW	Total	Total	Total	Total
33	BR-211	BR-211	BR-211	Plastic packs	Plastic packs	Plastic packs				Total	Total	Total	Total
34	1288.6	1534.7	1306.4	7179.6	7244.5	6891.5							
35	10614	11043	11184	64990	65281	65285							
36	0.1	0.5	0	51.1	50.2	48.4							
37	426819.8	422232.4	418707.9										
38													
39				16.9	15.9	16.9							
40													
41				141.6	133.3	142.4							
42				21.2	20.0	21.2							
43													
44	24217	24300	24183	24217	24300	24183				24217	24300	24183	24233.3
45	9.3	9.8	10.7	9.3	9.8	10.7				9.3	9.8	10.7	9.9
46													
47													85
48													
49													
50													
51	17.0	105.5	0.0	48468.7	50018.9	50125.4	50483.1	51326.1	51954.6	50483.1	51326.1	51954.6	51254.6
52	7266122	8912446	8220271	0.0	0.0	0.0	18376683	21593426	22677127	18376683	21593426	22677127	20882412
53	0	0	0	1602	1586	1749	1601.9	1585.8		1601.9	1585.8	1749.3	1645.7
54													
55	0	0	0	13427	13281	14743	13426.7	13280.8	14743.1	13427	13281	14743	26853
56	0	0	0	2010	1989	2193	2009.6	1989.1	2193.2	2010	1989	2193	4019
57	0	0	0	15029	14867	16492	15029	14867	14743	15029	14867	16492	30057

	C	D	E	F	G
1	**Process Information 2**				
2					
3	**808C1**		R1	R2	R3
4					
5	Kiln Temperature	F	1170	1276	1276
6	Afterburner Temperature	F	1619	1673	1653
7	WS pH		5.13	5.14	5.14
8					
9	**808C2**		R1	R2	R3
10					
11	Kiln Temperature	F	1491	1532	1504
12	Afterburner Temperature	F	2007	2039	2011
13	WS pH		5.21	5.55	5.52

	C	D	E	F	G	H	I	J	K	L
1	**808C1**									
2					Run 1				Run 2	
3	ng/dscm	I-TEF		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
5	4D 2378	1		0.018	0.018	0.018		0.035	0.018	0.018
6	4D Other	0		1.473	1.473	0.000		1.784	1.473	0.000
7	4D Total	0		1.491	1.491	0.000		1.818	1.491	0.000
8	5D 12378	0.5	nd	0.073	0.073	0.036	nd	0.073	0.036	0.018
9	5D Other	0		0.036	0.036	0.000		0.218	0.036	0.000
10	5D Total	0		0.109	0.109	0.000		0.291	0.109	0.000
11	6D 123478	0.1	nd	0.091	0.091	0.009	nd	0.073	0.045	0.005
12	6D Other	0		0.000	0.000	0.000		0.000	0.000	0.000
13	6D Total	0	nd	0.091	0.091	0.000	nd	0.073	0.045	0.000
14	7D 1234678	0.01	nd	0.145	0.145	0.001	nd	0.109	0.073	0.001
15	7D Other	0		0.000	0.000	0.000		0.000	0.000	0.000
16	7D Total	0	nd	0.145	0.145	0.000	nd	0.109	0.073	0.000
17	8D	0.001		0.491	0.491	0.000		0.618	0.491	0.000
18	4F 2378	0.1		0.062	0.062	0.006		0.098	0.062	0.006
19	4F Other	0		7.029	7.029	0.000		7.538	7.029	0.000
20	4F Total	0		7.091	7.091	0.000		7.636	7.091	0.000
21	5F 12378	0.5		0.095	0.095	0.047		0.131	0.095	0.047
22	5F Other	0		0.960	0.960	0.000		1.687	0.960	0.000
23	5F Total	0		1.055	1.055	0.000		1.818	1.055	0.000
24	6F 123478	0.1		0.104	0.104	0.010		0.200	0.104	0.010
25	6F Other	0		0.078	0.078	0.000		0.418	0.078	0.000
26	6F Total	0		0.182	0.182	0.000		0.618	0.182	0.000
27	7F 1234678	0.01		0.109	0.109	0.001		0.236	0.109	0.001
28	7F Other	0		0.000	0.000	0.000		0.000	0.000	0.000
29	7F Total	0		0.109	0.109	0.000		0.236	0.109	0.000
30	8F	0.001	nd	0.418	0.418	0.000	nd	0.255	0.209	0.000
31	Total PCDD/PCDF			11.182	11.182			13.473	10.855	
32	TEQ		0.0	0.131		0.131	79.4	0.178		0.107