	B	C
1	**Source Description**	
2		
3	Phase I ID No.	318
4	EPA ID No.	TXD0007349327
5	Facility Name	TEXAS INDUSTRIES, INC.
6	Facility Location	
7	City	MIDLOTHIAN
8	State	TX
9	Unit ID Name/No.	KILN NO. 1
10	Other Sister Facilities	Kiln Nos. 2, 3, 4 (only 2 kilns can burn at any one time)
11	Combustor Class	CEMENT KILN
12	Combustor Type	Wet, long
13	Combustor Characteristics	
14	Capacity (MMBtu/hr)	
15	Soot Blowing	
16	APCS	ESP
17	APCS Characteristics	Western Precipitation ESP, 70,000 ft plate area, SCA = 430
18	Hazardous Wastes	HW LIQ
19	Haz Waste Description	
20	Supplemental Fuel	COAL
21		
22	Stack Characteristics	
23	Diameter (ft)	8.0
24	Height (ft)	200.0
25	Gas Velocity (ft/sec)	15.5
26	Gas Temperature (°F)	366.3
27		
28	Permitting Status	
29	HWC Burn Status (Date if Terminated)	

	B	C
1	**Condition Description**	
2		
3	**318C1**	
4		
5	Report Name/Date	Texas Industries, Midlothian Cement Plant, Second Revision, Certification of Compliance, submitted to EPA Region VI and Texas Waste Commission of May 24, 1993, Revised October 10, 1992, prepared by Entellect
6	Report Prepare	Entellect
7	Testing Firm	
8	Cond Descr	CoC, DRE Mode 1, MAX HW FEED, POHC SPIKING, NO QUENCH
9	Test Dates	6/16/92
10	Cond Date	05/24/93
11		
12	**318C2**	
13		
14	Report Name/Date	Texas Industries, Midlothian Cement Plant, Second Revision, Certification of Compliance, submitted to EPA Region VI and Texas Waste Commission of May 24, 1993, Revised October 10, 1992, prepared by Entellect
15	Report Prepare	Entellect
16	Testing Firm	
17	Cond Descr	CoC, Metal mode
18	Test Dates	6/11/92
19	Cond Date	05/24/93
20		
21	**318C3**	
22		
23	Report Name/Date	Texas Industries, Midlothian Cement Plant, Second Revision, Certification of Compliance, submitted to EPA Region VI and Texas Waste Commission of May 24, 1993, Revised October 10, 1992, prepared by Entellect
24	Report Prepare	Entellect
25	Testing Firm	
26	Cond Descr	CoC, DRE Mode 2, COLD MODE QUENCH USED
27	Test Dates	6/19/92
28	Cond Date	05/24/93

	B	C	D	E	F	G	H	I	J	K	L	M
1	**Stack Gas Emissions 2**											
2												
3	**318C1**					R1		R2		R3		Cond Avg
4												
5	PM		gr/dscf			0.01135		0.00827		0.00923		0.00962
6	CO (MHRA)		ppmv			206.75		262.28		276.27		
7	HC (MHRA)		ppmv			4.64		6.03		7.56		
8	HCl		ppmv			59.14		36.77		45.15		
9	Cl2		ppmv			0.08		0.08	nd	0.02		
10	Total Cl		ppmv			59.30		36.93		45.19		47.14
11												
12	Chlorobenzene	DRE	%			99.9993		99.9993		99.9993		
13	Perchloroethylene	DRE	%			99.9995		99.9995		99.9995		
14												
15	Sampling Train	Halogens										
16	Gas Flowrate					60075		60161		59410		
17	Moisture					38.35		38.79		39.137		
18	Oxygen					5.9		5.2		6		
19	Temperature					372.67		369.38		356.75		
20												
21	**318C2**					R1		R2		R3		Cond Avg
22												
23	HC (MHRA)		ppmv			4.67		5.30		5.20		
24	Antimony		ug/dscm		nd	2.35		0.36		0.39		
25	Arsenic		ug/dscm		nd	0.77	nd	0.73	nd	0.74		
26	Barium		ug/dscm			123.00		179.76		126.61		
27	Beryllium		ug/dscm		nd	3.90	nd	3.60	nd	3.66		
28	Cadmium		ug/dscm			3.48		11.74		2.35		
29	Chromium (Hex)		ug/dscm		nd	0.64	nd	0.60	nd	0.61		
30	Lead		ug/dscm			125.21		155.00		102.32		
31	Thallium		ug/dscm			1.65		1.64	nd	1.30		
32	SVM		ug/dscm			128.69		166.74		104.67		133.37
33	LVM (no total Cr)		ug/dscm			4.67		4.33		4.40		
34												
35	Sampling Train	Cr Hex										
36	Gas Flowrate					59625		59788		62149		
37	Moisture					39.75		37.4		36.95		
38	Oxygen					6.32		7		7		
39	Temperature					370.21		362.79		359.29		
40												
41	Sampling Train	Metals										
42	Gas Flowrate					57546		58217		60306		
43	Moisture					38.66		38.87		38.9		
44	Oxygen					6.32		7		7		
45	Temperature					371		363.6		360		
46												
47	**318C3**											
48												
49	HC (MHRA)		ppmv			10.56		4.99		7.20		
50												
51	Chlorobenzene	DRE	%			99.999		99.9992		99.9973		
52	Perchloroethylene	DRE	%			99.9994		99.9994		99.9995		

	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	AC	AD	AE	AF	AG	A
1	**Feedstreams 2**																																
2																																	
3																																	
4	**318C1**			R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3	
5																																	
6	Feedstream			Spike metals						Coal						Raw material						Spike organics						Spike organics					
7	Feedrate	lb/hr																				145.329		176.976		147.3114		107.3155		117.2847		103.292	
8	Heating value	Btu/lb																															
9	Chlorine	lb/hr								37		36.6		36.2								124.257		151.315		125.9512		33.80439		36.94469		32.537	
10																																	
11	Gas flowrate			60075		60161		59410		60075		60161		59410		60075		60161		59410		60075		60161		59410		60075		60161		59410	
12	Oxygen			5.9		5.2		6		5.9		5.2		6		5.9		5.2		6		5.9		5.2		6		5.9		5.2		6	
13																																	
14	Chlorine	ug/dscm		0		0		0		152678		144130.3		152056		0		0		0		512738		595876		529051.3		139491.8		145487.6		136670	
15																																	
16	**318C2**			R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3		R1		R2		R3	
17																																	
18	Feedstream			Spike metals						Coal						Raw material						Spike organics						Spike organics					
19	Feedrate	lb/hr		651.7		670		638.7		13734		13379.86		13578.1		148400		149800		148600													
20	Heating value	Btu/lb																															
21	Antimony	lb/hr		3.48		3.58		3.41		0.426		0.415		0.421																			
22	Arsenic	lb/hr		0.028		0.0287		0.0274																									
23	Barium	lb/hr		52.1		53.6		51.1								3.56		3.75		3.57													
24	Beryllium	lb/hr		0.024		0.0247		0.0235								0.0535		0.0585		0.055													
25	Cadmium	lb/hr		2.56		2.63		2.51		0.165		0.161		0.163		0.253		0.27		0.253													
26	Chromium	lb/hr		11.3939		11.7139		11.16661																									
27	Chromium (Hex)	lb/hr		11.4		11.7		11.2																									
28	Lead	lb/hr		23		23.6		22.5		0.137		0.134		0.136		1.44		1.65		2.08													
29	Thallium	lb/hr		0.351		0.361		0.344		0.179		0.174		0.177																			
30																																	
31	Gas flowrate			57546		58217		60306		57546		58217		60306		57546		58217		60306		57546		58217		60306		57546		58217		60306	
32	Oxygen			6.32		7		7		6.32		7		7		6.32		7		7		6.32		7		7		6.32		7		7	
33																																	
34	Antimony	ug/dscm		15420		16442		15119		1888		1906		1867		0		0		0													
35	Arsenic	ug/dscm		124		132		121		0		0		0		0		0		0													
36	Barium	ug/dscm		230857		246169		226558		0		0		0		15774		17223		15828													
37	Beryllium	ug/dscm		106		113		104		0		0		0		237		269		244													
38	Cadmium	ug/dscm		11343		12079		11128		731		739		723		1121		1240		1122													
39	Chromium	ug/dscm		50487		53798		49508		0		0		0		0		0		0													
40	Chromium (Hex)	ug/dscm		50514		53735		49656		0		0		0		0		0		0													
41	Lead	ug/dscm		101914		108388		99756		607		615		603		6381		7578		9222													
42	Thallium	ug/dscm		1555		1658		1525		793		799		785		0		0		0													
43	SVM	ug/dscm		113257		120467		110885		1338		1355		1326		7502		8818		10344													
44	LVM	ug/dscm		50717		54044		49734		0		0		0		237		269		244													

	B	AI	AJ	AK	AL	AM	AN	AO
1	**Feedstreams 2**							
2								
3								
4	**318C1**	R1		R2		R3		Cond Avg
5								
6	Feedstream	Total						
7	Feedrate							
8	Heating value							
9	Chlorine							
10								
11	Gas flowrate							
12	Oxygen							
13								
14	Chlorine	804908		885494		817777		836060
15								
16	**318C2**	R1		R2		R3		Cond Avg
17								
18	Feedstream	Total						
19	Feedrate							
20	Heating value							
21	Antimony							
22	Arsenic							
23	Barium							
24	Beryllium							
25	Cadmium							
26	Chromium							
27	Chromium (Hex)							
28	Lead							
29	Thallium							
30								
31	Gas flowrate							
32	Oxygen							
33								
34	Antimony	17308		18348		16985		17547
35	Arsenic	124		132		121		126
36	Barium	246631		263392		242386		250803
37	Beryllium	343		382		348		358
38	Cadmium	13196		14058		12973		13409
39	Chromium	50487		53798		49508		51264
40	Chromium (Hex)	50514		53735		49656		51302
41	Lead	108902		116581		109581		111688
42	Thallium	2348		2457		2310		2372
43	SVM	122097		130639		122554		125097
44	LVM	50954		54312		49978		51748