

US EPA ARCHIVE DOCUMENT

	B	C
1	Source Description	
2		
3	Phase I ID No.	681
4	EPA ID No.	SCD003351699
5	Facility Name	Giant Cement Company
6	Facility Location	
7	City	Harleyville
8	State	SC
9	Unit ID Name/No.	Kiln No. 2
10	Other Sister Facilities	None
11	Number of Sister Facilities	0
12	Combustor Class	Cement Kiln (CK)
13	Combustor Type	Wet, long
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	APCS Detailed Acronym	FF
17	APCS General Class	FF
18	APCS Characteristics	Fuller
19	Hazardous Wastes	Liq
20	Haz Waste Description	
21	Supplemental Fuel	Coal
22		
23	Stack Characteristics	
24	Diameter (ft)	7.9
25	Height (ft)	150.0
26	Gas Velocity (ft/sec)	13.7
27	Gas Temperature (°F)	396.4
28		
29	Permitting Status	
30	HWC Burn Status (Date if Terminated)	

	B	C
1	Condition Description	
2		
3	681C1	
4		
5	Report Name/Date	Metals and HCl/Cl ₂ Source Emission Test on No. 2 Kiln Baghouse Exhaust, Giant Cement Co., Harleyville, SC, prepared by Davis and Floyd
6	Report Prepare	Davis and Floyd
7	Testing Firm	
8	Cond Descr	State of South Carolina emissions testing requirements
9	Testing Dates	November 10, 1993
10	Cond Dates	Nov-93
11		
12	681C2	
13		
14	Report Name/Date	Stationary Source Sampling Report, Reference No. 10181A, Giant Cement, Harleyville, SC, June 5, 1991
15	Report Prepare	Entropy Inc.
16	Testing Firm	Entropy Inc.
17	Cond Descr	State of South Carolina emissions testing requirements, pre-BIF
18	Testing Dates	June 5, 1991
19	Cond Dates	Jun-91

	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Stack Gas Emissions 2													
2														
3														
4	681C1					R1	R2	R3		Cond Avg				
5														
6	PM	E2	gr/dscf	y		0.02138	0.01539	0.00500		0.01392				
7	HCl	E2	ppmv	y		100.00	156.28	nd		1.87	86.0			
8	Cl2	E2	ppmv	y		2.15	1.29			1.14	1.5			
9	Total Chlorine	E2	ppmv	y		104.31	158.85			4.14	89.1			
10	Antimony	E1	ug/dscm	y		18.92	87.58			151.42	86.0			
11	Arsenic	E1	ug/dscm	y		13.66	54.70			177.15	81.8			
12	Barium	E1	ug/dscm	y		150.46	155.79			388.27	231.5			
13	Beryllium	E1	ug/dscm	y		1.75	2.36			5.66	3.3			
14	Cadmium	E1	ug/dscm	y		22.46	76.84			205.33	101.5			
15	Chromium	E1	ug/dscm	y		103.69	70.98			994.93	389.9	high outlier R3		
16	Lead	E1	ug/dscm	y		329.23	700.00			1418.67	816.0			
17	Mercury	E1	ug/dscm	y		230.77	31.42			30.80	97.7	high outlier R1		
18	Nickel	E1	ug/dscm	y		195.38	150.74			399.47	248.5			
19	Selenium	E1	ug/dscm	y		4.05	301.16			690.67	332.0			
20	Silver	E1	ug/dscm	y		13.15	2.54	nd		2.78	6.2			
21	Thallium	E1	ug/dscm	y		13.15	41.02			109.01	54.4			
22	SVM	E1	ug/dscm	y		351.69	776.84			1624.00	917.5			
23	LVM	E1	ug/dscm	y		119.11	128.03			1177.74	475.0			
24														
25	low outlier HCl R3, leak in sampling train system suspected													
26														
27	Sampling Train	Metals	E1											
28	Gas Flowrate		dscfm			60214.17	69458.56			65165.12				
29	Moisture		%			25.26	23.472			22.816				
30	O2		%			11.9	12.4			13.5				
31	Temperature		°F			413.4	395.1			376.5				
32														
33	Sampling Train	Particulate	E2											
34	Gas Flowrate		dscfm			55965.09	59203.33			62248.41				
35	Moisture		%			25.45	25.615			23.935				
36	O2		%			11.9	12.4			13.5				
37	Temperature		°F			417.3	390.4			385.8				
38														
39														
40	681C2					R1	R2	R3		Cond Avg				
41														
42	PM	E2	gr/dscf	y		0.01820	0.01130	0.01450		0.01467				
43	HCl	E2	ppmv	y		77.30	72.60	32.70		60.87				
44	Arsenic	E1	ug/dscm	y		0.86	1.39			1.12	1.12			
45	Barium	E1	ug/dscm	y		1.00	nd	31.40	nd	32.50	21.63			
46	Cadmium	E1	ug/dscm	y		43.10	50.70			34.00	42.60			
47	Chromium	E1	ug/dscm	y		20.80	14.10	nd		14.80	16.57			
48	Lead	E1	ug/dscm	y		43.10	76.40			36.90	52.13			
49	Mercury	E1	ug/dscm	y		1317.00	1123.00			1273.00	1237.67			
50	Nickel	E1	ug/dscm	y	nd	14.90	nd	14.30	nd	14.80	14.67			
51	Selenium	E1	ug/dscm	y		71.40	115.00			63.80	83.40			
52	Silver	E1	ug/dscm	y	nd	7.43	nd	7.14	nd	7.38	7.32			
53	SVM	E1	ug/dscm	y		86.20	127.10			70.90	94.73			
54	LVM	E1	ug/dscm	y		21.66	15.49			15.92	17.69	no Be		
55														
56	Sulfur Hexafluoride	E2	%			99.9998	99.9998			99.9999				
57														
58	Sampling Train	Metals	E1											
59	Stack Gas Flowrate		dscfm			69390	68745			59609				
60	O2		%			11.5	10.9			10				
61	Moisture		%			21.6	22			24.3				
62	Temperature		°F			382	384			421				
63														
64	Sampling Train	Particulate	E2											
65	Stack Gas Flowrate		dscfm			69913	69323			62518				
66	O2		%			11.5	10.9			10				
67	Moisture		%			21.8	22.4			24.4				
68	Temperature		°F			381	382			422				

US EPA ARCHIVE DOCUMENT

	B	C
1	Feedstream 2	
2		
3	681C1	
4		
5	no feed information available	