

US EPA ARCHIVE DOCUMENT

	B	C
1	<b>Source Description</b>	
2		
3	Phase I ID No.	3031
4	EPA ID No.	KSD031203318
5	Facility Name	ASH GROVE CEMENT COMPANY
6	Facility Location	
7	City	CHANUTE
8	State	KS
9	Unit ID Name/No.	New preheater/precalciner
10	Other Sister Facilities	
11	Number of Sister Facilities	
12	Combustor Class	Cement Kiln
13	Combustor Type	Preheater/precalciner
14	Combustor Characteristics	
15	Capacity (MMBtu/hr)	
16	APCS Detailed Acronym	FF (main), FF (bypass)
17	APCS General Class	
18	APCS Characteristics	
19	Hazardous Wastes	
20	Haz Waste Description	
21	Supplemental Fuel	
22		
23	Stack Characteristics	
24	Diameter (ft)	
25	Height (ft)	
26	Gas Velocity (ft/sec)	
27	Gas Temperature (°F)	
28		
29	Permitting Status	
30	HWC Burn Status (Date if Terminated)	

	B	C
1	<b>Cond Description</b>	
2		
3	<b>3031C1</b>	
4		
5	Report Name/Date	Certification of Compliance and Comprehensive Performance Test Report. Ash Grove Cement Co., Chanute, Kansas, Notification of Compliance and Comp Perf Test Report, June 12, 2002
6	Report Prepare	Ash Grove Cement Co.
7	Testing Firm	
8	Testing Dates	
9	Cond Dates	Dec-01
10	Condition Descr	Comp Perf Test, raw mill on
11	Content	
12		
13	<b>3031C2</b>	
14		
15	Report Name/Date	Certification of Compliance and Comprehensive Performance Test Report. Ash Grove Cement Co., Chanute, Kansas, Notification of Compliance and Comp Perf Test Report, June 12, 2002
16	Report Prepare	Ash Grove Cement Co.
17	Testing Firm	
18	Testing Dates	
19	Cond Dates	Mar-02
20	Condition Descr	Comp Perf Test, raw mill off
21	Content	
22		
23	<b>3031C3</b>	
24		
25	Report Name/Date	Certification of Compliance and Comprehensive Performance Test Report. Ash Grove Cement Co., Chanute, Kansas, Notification of Compliance and Comp Perf Test Report, June 12, 2002
26	Report Prepare	Ash Grove Cement Co.
27	Testing Firm	
28	Testing Dates	
29	Cond Dates	Mar-02
30	Condition Descr	Comp Perf Test, raw mill off, PCDD/PCDF retest
31	Content	

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	<b>Stack Gas Emissions</b>														
2															
3															
4	<b>3031C1</b>					2		4		8		9		Cond Avg	
5															
6	PM		lb/ton RM			0.0044		0.0047		0.0028		0.0034			
7	PM		lb/hr			1.428		1.524		0.938		1.118			
8	PM	E1	gr/dscf	y		0.0008		0.0009		0.0004		0.0005		0.0007	
9															
10	Cd	E1	ug/dscm	y		0.179		0.176		0.171		0.133		0.16	
11	Pb	E1	ug/dscm	y		0.218		0.199		0.199		0		0.15	
12	SVM	E1	ug/dscm	y		0.397		0.375		0.37		0.133		0.32	
13															
14	Cr		lb/hr			9.86E-04		3.41E-04		4.78E-04		2.00E-04			
15															
16	Sampling Train														
17	Stack Gas Flowrate		dscfm			210736		190343		267934		264726			
18	Oxygen		%			7.0		7.0		7.0		7.0			
19															
20	As	E1	ug/dscm	y		0		0		0		0		0.0	
21	Be	E1	ug/dscm	y		0		0		0		0		0.0	
22	Cr	E1	ug/dscm	y		1.251		0.479		0.477		0.202		0.6	
23	LVM	E1	ug/dscm	y		1.251		0.479		0.477		0.202		0.6	
24															
25	Hg	E1	ug/dscm	y		63.9		48.6		32.8		33.5		44.7	
26															
27	Total Chlorine		E1	ppmv	y	16.5		6.8		1.2		1.4		6.5	
28															
29	HC MS (RA)		E1	ppmv	y	2.7		5.7		2.8		3.2		3.6 main stack	
30	HC BP (RA)		E1	ppmv	y	0.9		4.2		1.3		8.2		3.7 bypass	
31															
32															
33	<b>3031C2</b>					1		3		5		6		Cond Avg	
34															
35	PM		lb/ton RM			0.0061		0.0074		0.0135		0.0044			
36	PM		lb/hr			1.977		2.239		4.239		1.46			
37	PM	E1	gr/dscf	y		0.0011		0.0013		0.0023		0.0007		0.00135	
38															
39	Cd	E1	ug/dscm	y		0.24		0.218				0.27		0.24	
40	Pb	E1	ug/dscm	y		0.267		0.251				0.095		0.20	
41	SVM	E1	ug/dscm	y		0.507		0.469				0.365		0.45	
42															
43	As	E1	ug/dscm	y		0		0				0		0.00	
44	Be	E1	ug/dscm	y		0		0.004				0		0.00	
45	Cr	E1	ug/dscm	y		0.179		0.68				0.189		0.35	
46	LVM	E1	ug/dscm	y		0.179		0.684				0.189		0.35	
47															
48	Cr		lb/hr			1.40E-04		5.27E-04				1.65E-04			
49															
50	Sampling Train														
51	Stack Gas Flowrate		dscfm			209119		206003		216181		233421			
52	Oxygen		%			7.0		7.0		7.0		7.0			
53															
54	Hg	E1	ug/dscm	y		70.2		292.1				22.7		128.3	
55															
56	Total Chlorine		E1	ppmv	y	3.6		26.9		35.7				22.1	
57															
58	HC BP (RA)		E1	ppmv	y	3.1		9.4		5.8		2.6		5.2 bypass stack	
59	HC MS (RA)		E1	ppmv	y	1.3		3.5		7.6		1.8		3.6 main stack	

	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					
1	<b>Feedrate</b>																																				
2																																					
3	<b>3031C1</b>																																				
4	Feedstream Descr																																				
5		R1																																			
6	Feed Class 2																																				
7	Feed Rate																																				
8	Heating Value																																				
9	Thermal Feedrate																																				
10	Chlorine																																				
11	Lead																																				
12	Chromium																																				
13	Mercury																																				
14																																					
15	Stack Gas Flowrate																																				
16	Oxygen																																				
17																																					
18	Feedrate MTECs																																				
19																																					
20	Chlorine																																				
21	Lead																																				
22	Chromium																																				
23	Mercury																																				
24	SYM																																				
25	LVM																																				
26																																					
27																																					
28	<b>3031C2</b>																																				
29	Feedstream Descr																																				
30		R1																																			
31	Feed Class 2																																				
32	Feed Rate																																				
33	Heating Value																																				
34	Thermal Feedrate																																				
35	Lead																																				
36	Chromium																																				
37	Mercury																																				
38	Chlorine																																				
39																																					
40	Stack Gas Flowrate																																				
41	Oxygen																																				
42																																					
43	Lead																																				
44	Chromium																																				
45	Mercury																																				
46	Chlorine																																				
47	SYM																																				
48	LVM																																				

	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1																					
2																					
3																					
4			R4		R1		R2		R3		R4		R1		R2		R3		R4		Cond Avg
5			Raw Matl		Coal		Coal		Coal		Coal		Total		Total		Total		Total		Total
6			333.5		Coal		Coal		Coal		Coal		Total		Total		Total		Total		Total
7					12000		12000		12000		12000		326.88		59.928		593.832		392.256		326.88
8					326.88		59.928		593.832		392.256		794		832		986		862		
9													114		83.7		57.7		60.9		
10													70.7		36.7		43.4		48.2		
11													0.631		0.742		0.422		0.46		
12													210736		190343		267934		264726		
13													7		7		7		7		
14																					
15																					
16																					
17																					
18																					
19																					
20													1007398		1168704		963937		870620		1007665
21													144639		117573		57579		61509		95325
22													89702		51552		43309		48682		58311
23													801		1042		421		465		682
24													144639		117573		57579		61509		95325
25													801		1042		421		465		682
26																					
27																					
28																					
29			R4		R1		R2		R3		R4		R1		R2		R3		R4		Cond Avg
30			Raw Matl		Coal		Coal		Coal		Coal		Total		Total		Total		Total		Total
31			329.9		8.8		5.9		1.2		10.6		Total		Total		Total		Total		Total
32					12000		12000		12000		12000		479.42		321.432		65.376		577.488		479.424
33					479.42		321.432		65.376		577.488		94.6		75.1		838		73.8		
34													64.3		35.7				40		
35													0.085		0.252				0.141		
36													800		804						
37																					
38																					
39													209119		206003		216181		233421		
40													7		7		7		7		
41																					
42																					
43													120953		97473		84535		84535		100987
44													82212		46335		45818		45818		58122
45													109		327		162		162		199
46													1022857		1043522		1036442		1036442		1034274
47													120953		97473		84535		84535		100987
48													82212		46335		45818		45818		58122

	B	C	D	E	F	G	H	I	J	K
1	<b>Process Operations</b>									
2										
3	<b>3031C1</b>			R1		R2		R3		R4
4										
5	Main ESP Temp	F		212		213		224		212
6	Bypass ESP Temp	F		427		419		369		369
7										
8	<b>3031C2</b>			R1		R2		R3		R4
9										
10	Main ESP Temp	F		429		419		412		351
11	Bypass ESP Temp	F		423		420		417		373
12										
13	<b>3031C3</b>			R1		R2		R3		
14										
15	Main ESP Temp	F		351		348		352		
16	Bypass ESP Temp	F		375		374		375		

	C	D	E	F	G	H	I	J	K	L
1	3031C1			R1		R2		R3		R4
2										
3										
4	D/F	ng TEQ/dscm		0.022		0.06		0.018		0.019



	C	D	E	F	G	H	I	J	K	L
1	3031C2			R1		R2		R3		R4
2										
3										
4	D/F	ng TEQ/dscm		0.267		1.7		1.06		0.242

	C	D	E	F	G	H	I
1	3031C3		R1		R2		R3
2							
3	D/F		0.229		0.115		0.136