Draft
Technical Support Document for HWC MACT Standards

Volume II:
HWC Emissions Database

Appendix A:
Cement Kiln Detailed Data Listing

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APPENDIX A
CEMENT KILN DETAILED DATA LISTING

All information extracted from the certificate of compliance (COC) test reports is provided in Sections 1 through 8. Each section provides a particular type of information. The information within each section is grouped by the specific device tested. To help the reader navigate through the data, two look up tables have been provided (see Tables 1 and 2). Table 1 provides a list of relevant information for each emitting process. An emitting process is a collection of combustion devices which emit to a common stack or collection of stacks. For example, a facility may have two devices whose emissions are combined and exhausted through a common stack. This would be classified as a single emitting process. However, if each device had its own stack, each device would be considered as a separate emitting process. Table 2 provides a list of emitting processes in each section. Table 1 can be used to quickly locate all information for a particular emitting process while Table 2 can be used to locate emitting processes within a section. The information provided in each section is described below.

Section 1 - Company and Test Location Summary. This section includes the name and location of each emitting process in the database. The emitting processes are sorted by 1.Company, 2.City, 3.State, and 4.Emitting Process ID. It should be noted that sort field 1 is only printed when it changes. Sort fields 2, 3 and 4 are printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 2 - Emitting Process Summary Information and Test Conditions. This section includes basic information for each emitting process such as the types of waste and fuels burned as well as the unit capacity. The test report and certificate of compliance dates also are provided were applicable. It should be noted that the most current dates are listed. For example if an emitting process was tested on 1/92 and 1/95, the test date would be 1/95. A brief description of each test conducted on the emitting process also is provided. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, and 5.EER Run ID. The EER Run ID includes the emitting process ID, condition number, and run number. It should be noted that the sort fields 1, 2, and 3 are only printed when they can change. Sort fields 4 and 5 are printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 3 - Combustor Design and Operating Information. This section includes detailed chamber specific information on the combustor design and operation for each emitting process. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Combustor Type, and 6.EER Run ID. It should be noted that the sort fields 1, 2, 3, 4, and 5 are only printed when they can change. Sort field 6 is printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 4 - APC Device Design and Operating Information. This section includes detailed APC device specific information on APC device design and operation for each emitting process. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.APC System Type, and 6.EER Run ID. It should be noted that the sort fields 1,

2, 3, 4, and 5 are only printed when they can change. Sort field 6 is printed for every record. Section 4 is divided into several subsections including:

4a - Electrostatic Precipitator Design and Operating Information.
4b - Fabric Filter Design and Operating Information.
4d - Venturi Scrubber Design and Operating Information.

Tables 1 can be used to quickly locate information for a specific facility. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 5 - Emission Stream Rates. This section includes basic source test information at the controlled and uncontrolled air emission sampling locations. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Stream Type (Controlled or Uncontrolled), 6.Stream Description (Emissions), and 7.EER Run ID. It should be noted that sort fields 5 and 6 are only printed when they can change. Sort fields 1, 2, 3, and 4 are listed at the top of each page. Sort field 7 is printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 6 - Other Stream Rates. This section includes basic information for each process stream where available. Example process streams include spikes, waste, fuel, raw materials, collected ash, and product. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Stream Type (Fuel , Waste, Raw Material, Spike, Fabric Filter Ash, Clinker, Aggregate, Electrostatic Precipitator Ash, etc.), 6.Stream Description (various descriptions given), and 7.EER Run ID. It should be noted that sort fields 5 and 6 are only printed when they can change. Sort fields 1, 2, 3, and 4 are listed at the top of each page. Sort field 7 is printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 7 - Emissions Analyses. This section includes trace metals (Arsenic, Antimony, Barium, Beryllium, Cadmium, Chromium, Lead, Nickel, Mercury, Selenium, Silver, Thallium), particulate, HCl/Cl2, Hydrocarbon (THC), carbon monoxide (CO), semi-volatile organic compounds (SVOC), volatile organic compounds (VOC), and dioxin/furan analyses for controlled and uncontrolled air emissions. Zero indicates no data was available. Units include lbs/hr for all mass flow rates. Concentration units depend on the stream type and substance category. Concentrations are provided in ppmv for HCl/Cl2/CO/THC, ug/dscm for metals, gr/dscf for particulate, and ng/dscm for SVOC, VOC and dioxin/furans. Where possible, the air emission concentrations have been corrected to 7% oxygen. In some cases, the oxygen content of the stack gases was not provided. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Stream Type (Controlled or Uncontrolled), 6.Stream Description (Emissions), 7.Category (Chlorine, Dioxin & Furan, Metals, Particulate, SVOC, THC & CO, and VOC), 8.Substance (various), and 9.EER Run ID. It should be noted that sort fields 5, 6, and 7 are only printed when they can change. Sort fields 1, 2, 3, and 4 are listed at the top of each page. Sort fields 8 and 9 are printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 8 - Other Stream Analyses. This section includes trace metals (Arsenic, Antimony, Barium, Beryllium, Cadmium, Chromium, Lead, Nickel, Mercury, Selenium, Silver, Thallium), particulate, HCl/Cl2, semi-volatile organic compounds (SVOC), volatile organic compounds (VOC), and dioxin/furan analyses for process streams. Zero indicates no data was available. Units include lbs/hr for all mass flow rates. Concentration units for most substances are ug/g. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Stream Type (Fuel , Waste, Raw Material, Spike, Fabric Filter Ash, Clinker, Aggregate, and Electrostatic Precipitator Ash), 6.Stream Description (various), 7.Category (Chlorine, Dioxin & Furan, Metals, Particulate, SVOC, THC & CO, and VOC), 8.Substance (various), and 9.EER Run ID. It should be noted that sort fields 5, 6, and 7 are only printed when they can change. Sort fields 1, 2, 3, and 4 are listed at the top of each page. Sort fields 8 and 9 are printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

Company	State	City	EPID	Section	Sub-Section	Page
Ash Grove Cement Company	AR	Foreman	228	1		1
Ash Grove Cement Company	AR	Foreman	228	2		1
Ash Grove Cement Company	AR	Foreman	228	3		1
Ash Grove Cement Company	AR	Foreman	228	4	a-ESP	1
Ash Grove Cement Company	AR	Foreman	228	5		1
Ash Grove Cement Company	AR	Foreman	228	6		1
Ash Grove Cement Company	AR	Foreman	228	7		1
Ash Grove Cement Company	AR	Foreman	228	8		1
Ash Grove Cement Company	AR	Foreman	403	1		1
Ash Grove Cement Company	AR	Foreman	403	2		1
Ash Grove Cement Company	AR	Foreman	403	3		1
Ash Grove Cement Company	AR	Foreman	403	4	a-ESP	1
Ash Grove Cement Company	AR	Foreman	403	5		2
Ash Grove Cement Company	AR	Foreman	403	6		3
Ash Grove Cement Company	AR	Foreman	403	7		9
Ash Grove Cement Company	AR	Foreman	403	8		5
Ash Grove Cement Company	AR	Foreman	404	1		1
Ash Grove Cement Company	AR	Foreman	404	2		1
Ash Grove Cement Company	AR	Foreman	404	3		1
Ash Grove Cement Company	AR	Foreman	404	4	a-ESP	2
Ash Grove Cement Company	AR	Foreman	404	5		3
Ash Grove Cement Company	AR	Foreman	404	6		6
Ash Grove Cement Company	AR	Foreman	404	7		16
Ash Grove Cement Company	AR	Foreman	404	8		12
Ash Grove Cement Company	KS	Chanute	401	1		1
Ash Grove Cement Company	KS	Chanute	401	2		2
Ash Grove Cement Company	KS	Chanute	401	3		2
Ash Grove Cement Company	KS	Chanute	401	4	a-ESP	2
Ash Grove Cement Company	KS	Chanute	401	5		4
Ash Grove Cement Company	KS	Chanute	401	6		9
Ash Grove Cement Company	KS	Chanute	401	7		24
Ash Grove Cement Company	KS	Chanute	401	8		21
Ash Grove Cement Company	KS	Chanute	402	1		1
Ash Grove Cement Company	KS	Chanute	402	2		2
Ash Grove Cement Company	KS	Chanute	402	3		3
Ash Grove Cement Company	KS	Chanute	402	4	a-ESP	3
Ash Grove Cement Company	KS	Chanute	402	5		5
Ash Grove Cement Company	KS	Chanute	402	6		13
Ash Grove Cement Company	KS	Chanute	402	7		60
Ash Grove Cement Company	KS	Chanute	402	8		33
Ash Grove Cement Company	NE	Louisville	405	1		1
Ash Grove Cement Company	NE	Louisville	405	2		3
Ash Grove Cement Company	NE	Louisville	405	3		3

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

Company	State	City	EPID	Section	Sub-Section	Page
Ash Grove Cement Company	NE	Louisville	405	4	a-ESP	4
Ash Grove Cement Company	NE	Louisville	405	5		6
Ash Grove Cement Company	NE	Louisville	405	6		17
Ash Grove Cement Company	NE	Louisville	405	7		87
Ash Grove Cement Company	NE	Louisville	405	8		44
Ash Grove Cement Company	NE	Louisville	406	1		1
Ash Grove Cement Company	NE	Louisville	406	2		3
Ash Grove Cement Company	NE	Louisville	406	3		4
Ash Grove Cement Company	NE	Louisville	406	4	a-ESP	4
Ash Grove Cement Company	NE	Louisville	406	5		7
Ash Grove Cement Company	NE	Louisville	406	6		20
Ash Grove Cement Company	NE	Louisville	406	7		96
Ash Grove Cement Company	NE	Louisville	406	8		51
Continental Cement Company	MO	Hannibal	319	1		1
Continental Cement Company	MO	Hannibal	319	2		3
Continental Cement Company	MO	Hannibal	319	3		5
Continental Cement Company	MO	Hannibal	319	4	a-ESP	5
Continental Cement Company	MO	Hannibal	319	5		8
Continental Cement Company	MO	Hannibal	319	6		23
Continental Cement Company	MO	Hannibal	319	7		104
Continental Cement Company	MO	Hannibal	319	8		59
Essroc Corporation	IN	Logansport	300	1		1
Essroc Corporation	IN	Logansport	300	2		4
Essroc Corporation	IN	Logansport	300	3		5
Essroc Corporation	IN	Logansport	300	4	a-ESP	5
Essroc Corporation	IN	Logansport	300	5		9
Essroc Corporation	IN	Logansport	300	6		26
Essroc Corporation	IN	Logansport	300	7		127
Essroc Corporation	IN	Logansport	300	8		63
Essroc Corporation	PR	Dorado	301	1		1
Essroc Corporation	PR	Dorado	301	2		5
Essroc Corporation	PR	Dorado	301	3		6
Essroc Corporation	PR	Dorado	301	4	b-FF	17
Essroc Corporation	PR	Dorado	301	5		10
Essroc Corporation	PR	Dorado	301	6		29
Essroc Corporation	PR	Dorado	301	7		132
Essroc Corporation	PR	Dorado	301	8		70
Giant Cement Company	SC	Harleyville	200	1		1
Giant Cement Company	SC	Harleyville	200	2		5
Giant Cement Company	SC	Harleyville	200	3		7
Giant Cement Company	SC	Harleyville	200	4	b-FF	18
Giant Cement Company	SC	Harleyville	200	5		11
Giant Cement Company	SC	Harleyville	200	6		31

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

Company	State	City	EPID	Section	Sub-Section	Page
Giant Cement Company	SC	Harleyville	200	7		138
Giant Cement Company	SC	Harleyville	200	8		75
Giant Cement Company	SC	Harleyville	201	1		1
Giant Cement Company	SC	Harleyville	201	2		5
Giant Cement Company	SC	Harleyville	201	3		7
Giant Cement Company	SC	Harleyville	201	4	b-FF	18
Giant Cement Company	SC	Harleyville	201	5		12
Giant Cement Company	SC	Harleyville	201	6		33
Giant Cement Company	SC	Harleyville	201	7		140
Giant Cement Company	SC	Harleyville	201	8		79
Heartland Cement Company	KS	Independence	202	1		1
Heartland Cement Company	KS	Independence	202	2		6
Heartland Cement Company	KS	Independence	202	3		7
Heartland Cement Company	KS	Independence	202	4	b-FF	19
Heartland Cement Company	KS	Independence	202	5		13
Heartland Cement Company	KS	Independence	202	6		35
Heartland Cement Company	KS	Independence	202	7		142
Heartland Cement Company	KS	Independence	202	8		83
Holnam, Inc.	MO	Clarksville	204	1		1
Holnam, Inc.	MO	Clarksville	204	2		6
Holnam, Inc.	MO	Clarksville	204	3		8
Holnam, Inc.	MO	Clarksville	204	4	a-ESP	6
Holnam, Inc.	MO	Clarksville	204	5		14
Holnam, Inc.	MO	Clarksville	204	6		37
Holnam, Inc.	MO	Clarksville	204	7		144
Holnam, Inc.	MO	Clarksville	204	8		87
Holnam, Inc.	MS	Artesia	203	1		1
Holnam, Inc.	MS	Artesia	203	2		6
Holnam, Inc.	MS	Artesia	203	3		8
Holnam, Inc.	MS	Artesia	203	4	a-ESP	7
Holnam, Inc.	MS	Artesia	203	5		15
Holnam, Inc.	MS	Artesia	203	6		39
Holnam, Inc.	MS	Artesia	203	7		151
Holnam, Inc.	MS	Artesia	203	8		91
Holnam, Inc.	SC	Holly Hill	205	1		1
Holnam, Inc.	SC	Holly Hill	205	2		7
Holnam, Inc.	SC	Holly Hill	205	3		9
Holnam, Inc.	SC	Holly Hill	205	4	a-ESP	7
Holnam, Inc.	SC	Holly Hill	205	5		16
Holnam, Inc.	SC	Holly Hill	205	6		40
Holnam, Inc.	SC	Holly Hill	205	7		154
Holnam, Inc.	SC	Holly Hill	205	8		94
Holnam, Inc.	SC	Holly Hill	206	1		1

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

Company	State	City	EPID	Section	Sub-Section	Page
Holnam, Inc.	SC	Holly Hill	206	2		7
Holnam, Inc.	SC	Holly Hill	206	3		9
Holnam, Inc.	SC	Holly Hill	206	4	a-ESP	8
Holnam, Inc.	SC	Holly Hill	206	5		17
Holnam, Inc.	SC	Holly Hill	206	6		43
Holnam, Inc.	SC	Holly Hill	206	7		156
Holnam, Inc.	SC	Holly Hill	206	8		99
Keystone Cement Company	PA	Bath	207	1		2
Keystone Cement Company	PA	Bath	207	2		8
Keystone Cement Company	PA	Bath	207	3		10
Keystone Cement Company	PA	Bath	207	4	a-ESP	9
Keystone Cement Company	PA	Bath	207	4	f-Other	26
Keystone Cement Company	PA	Bath	207	5		18
Keystone Cement Company	PA	Bath	207	6		46
Keystone Cement Company	PA	Bath	207	7		158
Keystone Cement Company	PA	Bath	207	8		105
Keystone Cement Company	PA	Bath	208	1		2
Keystone Cement Company	PA	Bath	208	2		8
Keystone Cement Company	PA	Bath	208	3		11
Keystone Cement Company	PA	Bath	208	4	a-ESP	9
Keystone Cement Company	PA	Bath	208	5		19
Keystone Cement Company	PA	Bath	208	6		49
Keystone Cement Company	PA	Bath	208	7		163
Keystone Cement Company	PA	Bath	208	8		115
Lafarge	AL	Demolpolis	321	1		2
Lafarge	AL	Demolpolis	321	2		8
Lafarge	AL	Demolpolis	321	3		11
Lafarge	AL	Demolpolis	321	4	a-ESP	10
Lafarge	AL	Demolpolis	321	5		20
Lafarge	AL	Demolpolis	321	6		52
Lafarge	AL	Demolpolis	321	7		168
Lafarge	AL	Demolpolis	321	8		125
Lafarge	KS	Fredonia	322	1		2
Lafarge	KS	Fredonia	322	2		9
Lafarge	KS	Fredonia	322	3		12
Lafarge	KS	Fredonia	322	4	a-ESP	11
Lafarge	KS	Fredonia	322	5		21
Lafarge	KS	Fredonia	322	6		53
Lafarge	KS	Fredonia	322	7		170
Lafarge	KS	Fredonia	322	8		128
Lafarge	KS	Fredonia	323	1		2
Lafarge	KS	Fredonia	323	2		9
Lafarge	KS	Fredonia	323	3		12

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

Company	State	City	EPID	Section	Sub-Section	Page
Lafarge	KS	Fredonia	323	4	a-ESP	11
Lafarge	KS	Fredonia	323	5		22
Lafarge	KS	Fredonia	323	6		54
Lafarge	KS	Fredonia	323	7		174
Lafarge	KS	Fredonia	323	8		131
Lafarge	MI	Alpena	320	1		2
Lafarge	MI	Alpena	320	2		9
Lafarge	MI	Alpena	320	3		12
Lafarge	MI	Alpena	320	4	b-FF	19
Lafarge	MI	Alpena	320	5		23
Lafarge	MI	Alpena	320	6		55
Lafarge	MI	Alpena	320	7		178
Lafarge	MI	Alpena	320	8		134
Lafarge	OH	Paulding	302	1		2
Lafarge	OH	Paulding	302	2		10
Lafarge	OH	Paulding	302	3		13
Lafarge	OH	Paulding	302	4	a-ESP	12
Lafarge	OH	Paulding	302	5		24
Lafarge	OH	Paulding	302	6		56
Lafarge	OH	Paulding	302	7		181
Lafarge	OH	Paulding	302	8		137
Lone Star Industries	IN	Green Castle	304	1		2
Lone Star Industries	IN	Green Castle	304	2		10
Lone Star Industries	IN	Green Castle	304	3		13
Lone Star Industries	IN	Green Castle	304	4	a-ESP	13
Lone Star Industries	IN	Green Castle	304	5		25
Lone Star Industries	IN	Green Castle	304	6		57
Lone Star Industries	IN	Green Castle	304	7		182
Lone Star Industries	IN	Green Castle	304	8		139
Lone Star Industries	MO	Cape Girardeau	303	1		2
Lone Star Industries	MO	Cape Girardeau	303	2		10
Lone Star Industries	MO	Cape Girardeau	303	3		14
Lone Star Industries	MO	Cape Girardeau	303	4	b-FF	20
Lone Star Industries	MO	Cape Girardeau	303	4	d-VS	25
Lone Star Industries	MO	Cape Girardeau	303	5		26
Lone Star Industries	MO	Cape Girardeau	303	6		60
Lone Star Industries	MO	Cape Girardeau	303	7		188
Lone Star Industries	MO	Cape Girardeau	303	8		143
Medusa Cement Company	PA	Wampum	305	1		2
Medusa Cement Company	PA	Wampum	305	2		11
Medusa Cement Company	PA	Wampum	305	3		15
Medusa Cement Company	PA	Wampum	305	4	a-ESP	13
Medusa Cement Company	PA	Wampum	305	5		27

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

Company	State	City	EPID	Section	Sub-Section	Page
Medusa Cement Company	PA	Wampum	305	6		64
Medusa Cement Company	PA	Wampum	305	7		191
Medusa Cement Company	PA	Wampum	305	8		154
Medusa Cement Company	PA	Wampum	335	1		2
Medusa Cement Company	PA	Wampum	335	2		11
Medusa Cement Company	PA	Wampum	335	3		15
Medusa Cement Company	PA	Wampum	335	4	a-ESP	14
Medusa Cement Company	PA	Wampum	335	5		28
Medusa Cement Company	PA	Wampum	335	6		67
Medusa Cement Company	PA	Wampum	335	7		195
Medusa Cement Company	PA	Wampum	335	8		161
National Cement Plant	CA	Lebec	306	1		2
National Cement Plant	CA	Lebec	306	2		11
National Cement Plant	CA	Lebec	306	3		15
National Cement Plant	CA	Lebec	306	4	b-FF	21
National Cement Plant	CA	Lebec	306	5		29
National Cement Plant	CA	Lebec	306	6		68
National Cement Plant	CA	Lebec	306	7		199
National Cement Plant	CA	Lebec	306	8		164
North Texas Cement Company	TX	Midlothian	308	1		2
North Texas Cement Company	TX	Midlothian	308	2		12
North Texas Cement Company	TX	Midlothian	308	3		16
North Texas Cement Company	TX	Midlothian	308	4	a-ESP	14
North Texas Cement Company	TX	Midlothian	308	5		30
North Texas Cement Company	TX	Midlothian	308	6		70
North Texas Cement Company	TX	Midlothian	308	7		204
North Texas Cement Company	TX	Midlothian	308	8		172
River Cement	MO	Festus	309	1		2
River Cement	MO	Festus	309	2		12
River Cement	MO	Festus	309	3		16
River Cement	MO	Festus	309	4	a-ESP	15
River Cement	MO	Festus	309	5		31
River Cement	MO	Festus	309	6		71
River Cement	MO	Festus	309	7		206
River Cement	MO	Festus	309	8		175
Southdown	KY	Kosmosdale	317	1		3
Southdown	KY	Kosmosdale	317	2		13
Southdown	KY	Kosmosdale	317	3		17
Southdown	KY	Kosmosdale	317	4	b-FF	21
Southdown	KY	Kosmosdale	317	5		32
Southdown	KY	Kosmosdale	317	6		72
Southdown	KY	Kosmosdale	317	7		212
Southdown	KY	Kosmosdale	317	8		178

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

Company	State	City	EPID	Section	Sub-Section	Page
Southdown	OH	Fairborn	315	1		3
Southdown	OH	Fairborn	315	2		13
Southdown	OH	Fairborn	315	3		17
Southdown	OH	Fairborn	315	4	b-FF	22
Southdown	OH	Fairborn	315	5		33
Southdown	OH	Fairborn	315	6		76
Southdown	OH	Fairborn	315	7		221
Southdown	OH	Fairborn	315	8		185
Southdown	TN	Knoxville	316	1		3
Southdown	TN	Knoxville	316	2		13
Southdown	TN	Knoxville	316	3		18
Southdown	TN	Knoxville	316	4	b-FF	23
Southdown	TN	Knoxville	316	5		34
Southdown	TN	Knoxville	316	6		80
Southdown	TN	Knoxville	316	7		227
Southdown	TN	Knoxville	316	8		194
Texas Industries	TX	Midlothian	318	1		3
Texas Industries	TX	Midlothian	318	2		14
Texas Industries	TX	Midlothian	318	3		18
Texas Industries	TX	Midlothian	318	4	a-ESP	16
Texas Industries	TX	Midlothian	318	5		35
Texas Industries	TX	Midlothian	318	6		82
Texas Industries	TX	Midlothian	318	7		233
Texas Industries	TX	Midlothian	318	8		201

TABLE 2. LIST OF INFORMATION BY SECTION.

Company	State	City	EPID	Section	Sub-Section	Page
Ash Grove Cement Company	AR	Foreman	228	1		1
Ash Grove Cement Company	AR	Foreman	403	1		1
Ash Grove Cement Company	AR	Foreman	404	1		1
Ash Grove Cement Company	KS	Chanute	401	1		1
Ash Grove Cement Company	KS	Chanute	402	1		1
Ash Grove Cement Company	NE	Louisville	405	1		1
Ash Grove Cement Company	NE	Louisville	406	1		1
Continental Cement Company	MO	Hannibal	319	1		1
Essroc Corporation	IN	Logansport	300	1		1
Essroc Corporation	PR	Dorado	301	1		1
Giant Cement Company	SC	Harleyville	200	1		1
Giant Cement Company	SC	Harleyville	201	1		1
Heartland Cement Company	KS	Independence	202	1		1
Holnam, Inc.	MO	Clarksville	204	1		1
Holnam, Inc.	MS	Artesia	203	1		1
Holnam, Inc.	SC	Holly Hill	205	1		1
Holnam, Inc.	SC	Holly Hill	206	1		1
Keystone Cement Company	PA	Bath	207	1		2
Keystone Cement Company	PA	Bath	208	1		2
Lafarge	AL	Demolpolis	321	1		2
Lafarge	KS	Fredonia	322	1		2
Lafarge	KS	Fredonia	323	1		2
Lafarge	MI	Alpena	320	1		2
Lafarge	OH	Paulding	302	1		2
Lone Star Industries	IN	Green Castle	304	1		2
Lone Star Industries	MO	Cape Girardeau	303	1		2
Medusa Cement Company	PA	Wampum	305	1		2
Medusa Cement Company	PA	Wampum	335	1		2
National Cement Plant	CA	Lebec	306	1		2
North Texas Cement Company	TX	Midlothian	308	1		2
River Cement	MO	Festus	309	1		2
Southdown	KY	Kosmosdale	317	1		3
Southdown	OH	Fairborn	315	1		3
Southdown	TN	Knoxville	316	1		3
Texas Industries	TX	Midlothian	318	1		3
Ash Grove Cement Company	AR	Foreman	228	2		1
Ash Grove Cement Company	AR	Foreman	403	2		1
Ash Grove Cement Company	AR	Foreman	404	2		1
Ash Grove Cement Company	KS	Chanute	401	2		2
Ash Grove Cement Company	KS	Chanute	402	2		2
Ash Grove Cement Company	NE	Louisville	405	2		3
Ash Grove Cement Company	NE	Louisville	406	2		3
Continental Cement Company	MO	Hannibal	319	2		3

TABLE 2. LIST OF INFORMATION BY SECTION.

Company	State	City	EPID	Section	Sub-Section	Page
Essroc Corporation	IN	Logansport	300	2		4
Essroc Corporation	PR	Dorado	301	2		5
Giant Cement Company	SC	Harleyville	200	2		5
Giant Cement Company	SC	Harleyville	201	2		5
Heartland Cement Company	KS	Independence	202	2		6
Holnam, Inc.	MO	Clarksville	204	2		6
Holnam, Inc.	MS	Artesia	203	2		6
Holnam, Inc.	SC	Holly Hill	205	2		7
Holnam, Inc.	SC	Holly Hill	206	2		7
Keystone Cement Company	PA	Bath	207	2		8
Keystone Cement Company	PA	Bath	208	2		8
Lafarge	AL	Demolpolis	321	2		8
Lafarge	KS	Fredonia	322	2		9
Lafarge	KS	Fredonia	323	2		9
Lafarge	MI	Alpena	320	2		9
Lafarge	OH	Paulding	302	2		10
Lone Star Industries	IN	Green Castle	304	2		10
Lone Star Industries	MO	Cape Girardeau	303	2		10
Medusa Cement Company	PA	Wampum	305	2		11
Medusa Cement Company	PA	Wampum	335	2		11
National Cement Plant	CA	Lebec	306	2		11
North Texas Cement Company	TX	Midlothian	308	2		12
River Cement	MO	Festus	309	2		12
Southdown	KY	Kosmosdale	317	2		13
Southdown	OH	Fairborn	315	2		13
Southdown	TN	Knoxville	316	2		13
Texas Industries	TX	Midlothian	318	2		14
Ash Grove Cement Company	AR	Foreman	228	3		1
Ash Grove Cement Company	AR	Foreman	403	3		1
Ash Grove Cement Company	AR	Foreman	404	3		1
Ash Grove Cement Company	KS	Chanute	401	3		2
Ash Grove Cement Company	KS	Chanute	402	3		3
Ash Grove Cement Company	NE	Louisville	405	3		3
Ash Grove Cement Company	NE	Louisville	406	3		4
Continental Cement Company	MO	Hannibal	319	3		5
Essroc Corporation	IN	Logansport	300	3		5
Essroc Corporation	PR	Dorado	301	3		6
Giant Cement Company	SC	Harleyville	200	3		7
Giant Cement Company	SC	Harleyville	201	3		7
Heartland Cement Company	KS	Independence	202	3		7
Holnam, Inc.	MO	Clarksville	204	3		8
Holnam, Inc.	MS	Artesia	203	3		8
Holnam, Inc.	SC	Holly Hill	205	3		9

TABLE 2. LIST OF INFORMATION BY SECTION.

Company	State	City	EPID	Section	Sub-Section	Page
Holnam, Inc.	SC	Holly Hill	206	3		9
Keystone Cement Company	PA	Bath	207	3		10
Keystone Cement Company	PA	Bath	208	3		11
Lafarge	AL	Demolpolis	321	3		11
Lafarge	KS	Fredonia	322	3		12
Lafarge	KS	Fredonia	323	3		12
Lafarge	MI	Alpena	320	3		12
Lafarge	OH	Paulding	302	3		13
Lone Star Industries	IN	Green Castle	304	3		13
Lone Star Industries	MO	Cape Girardeau	303	3		14
Medusa Cement Company	PA	Wampum	305	3		15
Medusa Cement Company	PA	Wampum	335	3		15
National Cement Plant	CA	Lebec	306	3		15
North Texas Cement Company	TX	Midlothian	308	3		16
River Cement	MO	Festus	309	3		16
Southdown	KY	Kosmosdale	317	3		17
Southdown	OH	Fairborn	315	3		17
Southdown	TN	Knoxville	316	3		18
Texas Industries	TX	Midlothian	318	3		18
Ash Grove Cement Company	AR	Foreman	228	4	a-ESP	1
Ash Grove Cement Company	AR	Foreman	403	4	a-ESP	1
Ash Grove Cement Company	AR	Foreman	404	4	a-ESP	2
Ash Grove Cement Company	KS	Chanute	401	4	a-ESP	2
Ash Grove Cement Company	KS	Chanute	402	4	a-ESP	3
Ash Grove Cement Company	NE	Louisville	405	4	a-ESP	4
Ash Grove Cement Company	NE	Louisville	406	4	a-ESP	4
Continental Cement Company	MO	Hannibal	319	4	a-ESP	5
Essroc Corporation	IN	Logansport	300	4	a-ESP	5
Holnam, Inc.	MO	Clarksville	204	4	a-ESP	6
Holnam, Inc.	MS	Artesia	203	4	a-ESP	7
Holnam, Inc.	SC	Holly Hill	205	4	a-ESP	7
Holnam, Inc.	SC	Holly Hill	206	4	a-ESP	8
Keystone Cement Company	PA	Bath	207	4	a-ESP	9
Keystone Cement Company	PA	Bath	208	4	a-ESP	9
Lafarge	AL	Demolpolis	321	4	a-ESP	10
Lafarge	KS	Fredonia	322	4	a-ESP	11
Lafarge	KS	Fredonia	323	4	a-ESP	11
Lafarge	OH	Paulding	302	4	a-ESP	12
Lone Star Industries	IN	Green Castle	304	4	a-ESP	13
Medusa Cement Company	PA	Wampum	305	4	a-ESP	13
Medusa Cement Company	PA	Wampum	335	4	a-ESP	14
North Texas Cement Company	TX	Midlothian	308	4	a-ESP	14
River Cement	MO	Festus	309	4	a-ESP	15

TABLE 2. LIST OF INFORMATION BY SECTION.

Company	State	City	EPID	Section	Sub-Section	Page
Texas Industries	TX	Midlothian	318	4	a-ESP	16
Essroc Corporation	PR	Dorado	301	4	b-FF	17
Giant Cement Company	SC	Harleyville	200	4	b-FF	18
Giant Cement Company	SC	Harleyville	201	4	b-FF	18
Heartland Cement Company	KS	Independence	202	4	b-FF	19
Lafarge	MI	Alpena	320	4	b-FF	19
Lone Star Industries	MO	Cape Girardeau	303	4	b-FF	20
National Cement Plant	CA	Lebec	306	4	b-FF	21
Southdown	KY	Kosmosdale	317	4	b-FF	21
Southdown	OH	Fairborn	315	4	b-FF	22
Southdown	TN	Knoxville	316	4	b-FF	23
Lone Star Industries	MO	Cape Girardeau	303	4	d-VS	25
Keystone Cement Company	PA	Bath	207	4	f-Other	26
Ash Grove Cement Company	AR	Foreman	228	5		1
Ash Grove Cement Company	AR	Foreman	403	5		2
Ash Grove Cement Company	AR	Foreman	404	5		3
Ash Grove Cement Company	KS	Chanute	401	5		4
Ash Grove Cement Company	KS	Chanute	402	5		5
Ash Grove Cement Company	NE	Louisville	405	5		6
Ash Grove Cement Company	NE	Louisville	406	5		7
Continental Cement Company	MO	Hannibal	319	5		8
Essroc Corporation	IN	Logansport	300	5		9
Essroc Corporation	PR	Dorado	301	5		10
Giant Cement Company	SC	Harleyville	200	5		11
Giant Cement Company	SC	Harleyville	201	5		12
Heartland Cement Company	KS	Independence	202	5		13
Holnam, Inc.	MO	Clarksville	204	5		14
Holnam, Inc.	MS	Artesia	203	5		15
Holnam, Inc.	SC	Holly Hill	205	5		16
Holnam, Inc.	SC	Holly Hill	206	5		17
Keystone Cement Company	PA	Bath	207	5		18
Keystone Cement Company	PA	Bath	208	5		19
Lafarge	AL	Demolpolis	321	5		20
Lafarge	KS	Fredonia	322	5		21
Lafarge	KS	Fredonia	323	5		22
Lafarge	MI	Alpena	320	5		23
Lafarge	OH	Paulding	302	5		24
Lone Star Industries	IN	Green Castle	304	5		25
Lone Star Industries	MO	Cape Girardeau	303	5		26
Medusa Cement Company	PA	Wampum	305	5		27
Medusa Cement Company	PA	Wampum	335	5		28
National Cement Plant	CA	Lebec	306	5		29
North Texas Cement Company	TX	Midlothian	308	5		30

TABLE 2. LIST OF INFORMATION BY SECTION.

Company	State	City	EPID	Section	Sub-Section	Page
River Cement	MO	Festus	309	5		31
Southdown	KY	Kosmosdale	317	5		32
Southdown	OH	Fairborn	315	5		33
Southdown	TN	Knoxville	316	5		34
Texas Industries	TX	Midlothian	318	5		35
Ash Grove Cement Company	AR	Foreman	228	6		1
Ash Grove Cement Company	AR	Foreman	403	6		3
Ash Grove Cement Company	AR	Foreman	404	6		6
Ash Grove Cement Company	KS	Chanute	401	6		9
Ash Grove Cement Company	KS	Chanute	402	6		13
Ash Grove Cement Company	NE	Louisville	405	6		17
Ash Grove Cement Company	NE	Louisville	406	6		20
Continental Cement Company	MO	Hannibal	319	6		23
Essroc Corporation	IN	Logansport	300	6		26
Essroc Corporation	PR	Dorado	301	6		29
Giant Cement Company	SC	Harleyville	200	6		31
Giant Cement Company	SC	Harleyville	201	6		33
Heartland Cement Company	KS	Independence	202	6		35
Holnam, Inc.	MO	Clarksville	204	6		37
Holnam, Inc.	MS	Artesia	203	6		39
Holnam, Inc.	SC	Holly Hill	205	6		40
Holnam, Inc.	SC	Holly Hill	206	6		43
Keystone Cement Company	PA	Bath	207	6		46
Keystone Cement Company	PA	Bath	208	6		49
Lafarge	AL	Demolpolis	321	6		52
Lafarge	KS	Fredonia	322	6		53
Lafarge	KS	Fredonia	323	6		54
Lafarge	MI	Alpena	320	6		55
Lafarge	OH	Paulding	302	6		56
Lone Star Industries	IN	Green Castle	304	6		57
Lone Star Industries	MO	Cape Girardeau	303	6		60
Medusa Cement Company	PA	Wampum	305	6		64
Medusa Cement Company	PA	Wampum	335	6		67
National Cement Plant	CA	Lebec	306	6		68
North Texas Cement Company	TX	Midlothian	308	6		70
River Cement	MO	Festus	309	6		71
Southdown	KY	Kosmosdale	317	6		72
Southdown	OH	Fairborn	315	6		76
Southdown	TN	Knoxville	316	6		80
Texas Industries	TX	Midlothian	318	6		82
Ash Grove Cement Company	AR	Foreman	228	7		1
Ash Grove Cement Company	AR	Foreman	403	7		9
Ash Grove Cement Company	AR	Foreman	404	7		16

TABLE 2. LIST OF INFORMATION BY SECTION.

Company	State	City	EPID	Section	Sub-Section	Page
Ash Grove Cement Company	KS	Chanute	401	7		24
Ash Grove Cement Company	KS	Chanute	402	7		60
Ash Grove Cement Company	NE	Louisville	405	7		87
Ash Grove Cement Company	NE	Louisville	406	7		96
Continental Cement Company	MO	Hannibal	319	7		104
Essroc Corporation	IN	Logansport	300	7		127
Essroc Corporation	PR	Dorado	301	7		132
Giant Cement Company	SC	Harleyville	200	7		138
Giant Cement Company	SC	Harleyville	201	7		140
Heartland Cement Company	KS	Independence	202	7		142
Holnam, Inc.	MO	Clarksville	204	7		144
Holnam, Inc.	MS	Artesia	203	7		151
Holnam, Inc.	SC	Holly Hill	205	7		154
Holnam, Inc.	SC	Holly Hill	206	7		156
Keystone Cement Company	PA	Bath	207	7		158
Keystone Cement Company	PA	Bath	208	7		163
Lafarge	AL	Demolpolis	321	7		168
Lafarge	KS	Fredonia	322	7		170
Lafarge	KS	Fredonia	323	7		174
Lafarge	MI	Alpena	320	7		178
Lafarge	OH	Paulding	302	7		181
Lone Star Industries	IN	Green Castle	304	7		182
Lone Star Industries	MO	Cape Girardeau	303	7		188
Medusa Cement Company	PA	Wampum	305	7		191
Medusa Cement Company	PA	Wampum	335	7		195
National Cement Plant	CA	Lebec	306	7		199
North Texas Cement Company	TX	Midlothian	308	7		204
River Cement	MO	Festus	309	7		206
Southdown	KY	Kosmosdale	317	7		212
Southdown	OH	Fairborn	315	7		221
Southdown	TN	Knoxville	316	7		227
Texas Industries	TX	Midlothian	318	7		233
Ash Grove Cement Company	AR	Foreman	228	8		1
Ash Grove Cement Company	AR	Foreman	403	8		5
Ash Grove Cement Company	AR	Foreman	404	8		12
Ash Grove Cement Company	KS	Chanute	401	8		21
Ash Grove Cement Company	KS	Chanute	402	8		33
Ash Grove Cement Company	NE	Louisville	405	8		44
Ash Grove Cement Company	NE	Louisville	406	8		51
Continental Cement Company	MO	Hannibal	319	8		59
Essroc Corporation	IN	Logansport	300	8		63
Essroc Corporation	PR	Dorado	301	8		70
Giant Cement Company	SC	Harleyville	200	8		75

TABLE 2. LIST OF INFORMATION BY SECTION.

Company	State	City	EPID	Section	Sub-Section	Page
Giant Cement Company	SC	Harleyville	201	8		79
Heartland Cement Company	KS	Independence	202	8		83
Holnam, Inc.	MO	Clarksville	204	8		87
Holnam, Inc.	MS	Artesia	203	8		91
Holnam, Inc.	SC	Holly Hill	205	8		94
Holnam, Inc.	SC	Holly Hill	206	8		99
Keystone Cement Company	PA	Bath	207	8		105
Keystone Cement Company	PA	Bath	208	8		115
Lafarge	AL	Demolpolis	321	8		125
Lafarge	KS	Fredonia	322	8		128
Lafarge	KS	Fredonia	323	8		131
Lafarge	MI	Alpena	320	8		134
Lafarge	OH	Paulding	302	8		137
Lone Star Industries	IN	Green Castle	304	8		139
Lone Star Industries	MO	Cape Girardeau	303	8		143
Medusa Cement Company	PA	Wampum	305	8		154
Medusa Cement Company	PA	Wampum	335	8		161
National Cement Plant	CA	Lebec	306	8		164
North Texas Cement Company	TX	Midlothian	308	8		172
River Cement	MO	Festus	309	8		175
Southdown	KY	Kosmosdale	317	8		178
Southdown	OH	Fairborn	315	8		185
Southdown	TN	Knoxville	316	8		194
Texas Industries	TX	Midlothian	318	8		201

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES

Field Name	Description	Example Inputs
Section 1. Company and Test Location Summary		
1. Company	Company	
2. City	City	
3. State	State	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER. An emitting process is a collection of combustion devices that emit to a common stack or collection of stacks	101, etc.
Device Name	Name given to emitting process by plant	
Section 2. Emitting Process Summary Information and Test Conditions.		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
Emitting Process Information:		
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
# of Devices	Number of devices in emitting process	
System Type	Basic type of device	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
Waste Type Summary	All types of waste burned in emitting process	HW Sld/Liq, HW Sludge
Fuel Summary	All types of fuel burned in emitting process	Coal, Coke, Natural Gas, none
Capacity	Maximum capacity of emitting process (clinker capacity if available, or raw material feed.)	36 tph clinker, 65 tph raw feed
Certificate of Compliance	Date of Certification of Compliance Report	
Test Report Date	Date of Test Report	
Condition Information:		
5. EER Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Site Run ID	Site description of run	Condition A, Runs 1-4
Fuel	Fuel burned during given condition	Coal, Coke, Natural Gas, none
Waste	Waste burned during given condition	HW Sld/Liq, HW Sludge
Description	Condition description	Low comb temp/low HW waste feed, High comb temp/high Cl feed, etc.

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 3. Kiln Design and Operating Information.		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of System	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. Combustor Type	Type of combustor described in this sub-section	Wet Kiln or Dry Kiln
Chamber Specific Design Info.:		
Chamber Name	Name given to chamber by site	Kiln, Afterburner
Chamber Type	Type of chamber	Single, Primary, Secondary, etc.
# of Devices	Number of similar devices in EP	
Length (ft)	Length of chamber (feet)	
Manufacturer	Manufacturer of device	
Surface Area (ft2)	Interior surface area of combustion chamber (sq. feet)	
Diameter (ft)	Inside diameter of chamber (feet)	
Refractory Type	Type of refractory	Brick, etc.
Length to Diameter	Ratio of length to diameter	
Burner Type	Type of burner	Low NOx, Conventional, etc.
Volume (ft3)	Interior volume of chamber (cubic feet)	
Precalciner	Indicates presence of precalciner	Y, N
Bypass	Indicates presence of bypass	Y, N
Preheater	Indicates presence of preheater	Y, N
Dust Recycle	Indicates whether captured particulate is recycled back to kiln	Y, N
Comment	Any additional comments regarding combustor description	
Chamber Specific Operating Info.:		
6. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Measurement Location	Measurement location of temp and O2 within comb. chamber	High end, low end, etc.
Ave Temp (F)	Average temperature at measured location	
Oxygen (%)	Oxygen concentration at measured location	

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 4a. Electrostatic Precipitator Design and Operating Information.		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of System	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. APC Device Type	Type of APCD described in this sub-section	ESP
Design Information:		
Controls emissions from	Describes which device precedes this APCD	Wet Kiln, Dry Kiln, WS, etc.
Location	Location of current APCD within total APCD train	1, 2, 3, 4, 5
# of Devices	Number of similar APCDs in EP	
Manufacturer	APCD Manufacturer	
Configuration	Basic configuration of ESP	Wet or Dry
Plate Area (ft2)	Plate area in feet squared	
Rapping Mechanism	Type of rapping mechanism	Mechanical, Vibrators, etc.
Number of Fields	Number of fields	
Rapping Frequency (cpm)	Rapping frequency in cycles per minute	
Controller	Type of controller	Automatic, etc.
SCA (ft2/kacfm)	Specific collection area in feet squared per thousand actual cubic feet per minute	
Wire to Plate (in)	Wire to plate distance in inches	
Resistivity (Ohm-cm)	Resistivity in ohm-cm	
Electrode Spec.	Electrode specification	Wire, Barbed Tube, etc.
Gas Conditioning	Gas conditioning	Water, None, etc.
Comment	Any additional comments regarding APCD description	
Operating Information:		
6. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Temp (F)	Average temperature at APCD	
SCA (ft2/kacfm)	Specific collection area in feet squared per thousand actual cubic feet per minute. At APCD temp.	
Power (KVA)	Power consumption of APCD in KVA	

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 4b. Fabric Filter Design and Operating Information.		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of System	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. APC Device Type	Type of APCD described in this sub-section	FF
Design Information:		
Controls emissions from	Describes which device precedes this APCD	Wet Kiln, Dry Kiln, WS, etc.
Location	Location of current APCD within total APCD train	1, 2, 3, 4, 5
# of Devices	Number of similar APCDs in EP	
Manufacturer	APCD Manufacturer	
Configuration	Basic configuration of FF	Pulse Jet, Reverse Flow, etc.
Number of Comparts	Number of compartments	
Cloth Area (ft2)	Cloth area in feet squared	
Number of Bags	Number of bags	
Induced	Induced	Induced or Pressurized
Fabric Type	Type of fabric	Fiberglass, Nomex, Teflon, etc.
Air to Cloth Ratio (ft/min)	Air to cloth ratio in feet per minute	
Maintenance Schedule	Frequency of cleaning	
Comment	Any additional comments regarding APCD description	
Operating Information:		
6. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Temp (F)	Average temperature at APCD	
Pressure Drop (in. H2O)	Pressure drop across FF in inches of water	
Air to Cloth (ft/min)	Air t actual cubic feet per minute. At APCD temp.	

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 4d. Venturi Scrubber Design and Operating Information.		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of System	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. APC Device Type	Type of APCD described in this sub-section	VS
Design Information:		
Controls emissions from	Describes which device precedes this APCD	Wet Kiln, Dry Kiln, WS, etc.
Location	Location of current APCD within total APCD train	1, 2, 3, 4, 5
# of Devices	Number of similar APCDs in EP	
Manufacturer	APCD Manufacturer	
Configuration	Basic configuration of Venturi Scrubber	Fixed or Variable Throat
Reagent	Type of reagent used if any	NaOH, Lime, etc.
Comment	Any additional comments regarding APCD description	
Operating Information:		
6. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Temp (F)	Average temperature at APCD	
Pressure Drop (in. H2O)	Pressure drop across venturi in inches of water	
Liquid to Gas (gal/kacf)	Liguid to gas ratio in gallons per thousand actual cubic feet	
PH	PH	
Reagent to Gas (lb/kacf)	Reagent to gas ratio in pounds per thousand cubic feed	

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 5. Air Emission Stream Rates		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of Kiln	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. Type	Stream type	Controlled, Uncontrolled
6. Description	Stream description	Emissions
Additional ID Information:		
Process Group	Describes combustion group with which stream is associated	Wet or Dry Kiln
Location	Measurement location	Stack, Bypass, ESP Entrance, etc.
Phase	Stream phase	Gas
Stack Information:		
Stack Height (ft)	Stack height (feet)	
Stack Diameter (in)	Inside stack diameter (inches)	
Stream Rates and Properties:		
7. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Method	Type substance measured	Metals, SVOC, etc.
Process Rate	Flow rate of current process stream in dry standard cubic feet per minute	
Temp (F)	Temperature of current process stream (°F)	
Oxygen (%)	Oxygen content of current process stream (%vol, dry)	
Moisture (%)	Moisture content of current stream (%,wt)	

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
	Section 6. Other Stream Rates	
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of System	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. Type	Stream type	FF ash, fuel, waste, spike, etc.
6. Description	Stream description	Product, Coal, CCl4 spike, etc.
Additional ID Information:		
Process Group	Describes combustion group with which stream is associated	Wet Kiln or Dry Kiln
Location	Measurement location	Primary, Secondary, ESP, FF, etc.
Phase	Stream phase	Gas, Liquid, Solid, Sludge
Feed Stream Information		
Feed Mechanism	Description of mechanism used to feed stream	Ram feed, atomizing nozzle, etc.
Feed Location	Location in device where feed is fed	Low end, high end, etc.
Manufacturer	Manufacturer of feed mechanism or burner	
Number of Burners	Number of burners	
Stream Rates and Properties:		
7. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Process Rate	Flow rate of current process stream (units provided)	
Moisture (%)	Moisture content of current stream	
Heating Value	Heating value of current stream (units provided)	
Viscosity, cSt	Viscosity of current stream	
Density, lb/ft3	Density of current stream	
Ash (%)	Ash content of current stream	

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 7. Emissions Analysis		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of System	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. Type	Stream type	Controlled, Uncontrolled
6. Description	Stream description	Emissions
Process Group	Describes combustion group with which stream is associated	Wet Kiln or Dry Kiln
Location	Measurement location	Stack, Bypass, ESP Entrance, etc.
Phase	Stream phase	Gas
7. Category	Substance category	Chlorine, VOCs, Metals, etc.
Analysis:		
8. Substance	Substance name	Chlorine, Particulate, Arsenic, etc.
9. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Concentration	Concentration of substance in current stream (units provided)	
Mass Rate	Mass rate of substance in current stream (units provided)	
Calc	Type of calculation performed	CE, CC, CCE, etc.

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 8. Other Stream Analysis		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of System	Cement Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. Type	Stream type	FF ash, fuel, waste, spike, etc.
6. Description	Stream description	Product, Coal, CCl4 spike, etc.
Process Group	Describes combustion group with which stream is associated	Wet Kiln or Dry Kiln
Location	Measurement location	Primary, Secondary, ESP, FF, etc.
Phase	Stream phase	Gas, Liquid, Solid, Sludge
7. Category	Substance category	Chlorine, VOCs, Metals, etc.
Analysis:		
8. Substance	Substance name	Chlorine, Lead, Arsenic, etc.
9. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Concentration	Concentration of substance in current stream (units provided)	
Mass Rate	Mass rate of substance in current stream (units provided)	
Calc	Type of calculation performed	CE, CC, CCE, etc.

(Numbers represent sort order for data summary.)

TABLE 4. GLOSSARY OF ACRONYMS FOR DATA SUMMARY

4D	Tetrachlorodibenzo-(p)-dioxin
4F	Tetrachlorodibenzofuran
5D	Pentachlorodibenzo-(p)-dioxin
5F	Pentachlorodibenzofuran
6D	Hexachlorodibenzo-(p)-dioxin
6F	Hexachlorodibenzofuran
7D	Heptachlorodibenzo-(p)-dioxin
7F	Heptachlorodibenzofuran
8D	Octachlorodibenzo-(p)-dioxin
8F	Octachlorodibenzofuran
?	Not Available
APC	Air Pollution Control
APS	Acid Scrubber
APCD	Air Pollution Control Device
AS	Absorber
AT	Ash Trap
AVE	Average
CAP	Capacity
CARNOT	Carnot Inc. test teams performed measurements
CCS	Counter Current Scrubber
CK	Cement Kiln
CL	Chlorine
CO	Carbon Monoxide
COC	Certification of Compliance
COMB	Combustion
COND	condition
CS	Caustic Scrubber
cSt	centi-Stoke (unit of viscosity)
CT	Chimney Tray
DA	Dilution Air
DI	Dry Injection
DM	Demister
dscfm	Dry standard cubic feet per minute
dscm	dry standard cubic meter
EP	Emitting Process
EPA	Environmental Pollution Agency
ES	Entrainment Separator
ESP	Electric Static Precipitator

F	Fahrenheit
FF	Fabric Filter
FN	Fog Nozzle
GC	Gas Cooler
gr/dscf	grains per dry standard cubic feet
HCl	hydrogen chloride
HCS	Hydrogen Chloride Scrubber
HE	Heat Exchanger
HEPA	High Efficiency Particulate Air Filter
HES	High Energy Scrubber
Hex	hexavalent
HP	HEPA Filter
HS	Hydrogen Chloride Scrubber
HTHE	High Temperature Heat Exchanger
HW	Hazardous Waste
ID	Identification
Inch H2O	Inches of water
IWS	Ionizing Wet Scrubber
KOV	Knock Out Vessel
KVA	Kilovolt ampere

TABLE 4. GLOSSARY OF ACRONYMS FOR DATA SUMMARY (continued)

LIQ	liquid
LTHE	Low Temperature Heat Exchanger
LWA	Light Weight Aggregate Kiln
MAX	maximum
MC	Multiple Cyclone
MIN	Minimum
N	No
NA	Not Applicable
ND	Non-detect
ng	nanogram
NO.	Number
PBC	Packed Bed Condenser
PBS	Packed Bed Scrubber
ppmv	parts per million by volume
ppmvd	parts per million by volume dry
PRESS	Pressure
PROD	production
PT	Packed Tower
Q	Quencher
QC	Quench Column
QT	Quench Tower
QS	Quench Separator
RJS	Reverse Jet Scrubber
S	Scrubber
SD	Spray Dryer
SLD	solid
SS	Spray Saturator
SVOC	Semi-volatile organic compound
SYS	System
TEMP	Temperature
TEQ	Total Equivalence Quotient
THC	Total hydrocarbons
Total PCDD	Total Polychloronated dibenzo-(p)-dioxin
Total PCDF	Total Polychloronated dibenzofuran
TPH	tons per hour
ug	microgram
VOC	Volatile organic compound

VS	Venturi Scrubber
VQ	Venturi Quench
WHB	Waste Heat Boiler
WS	Wet Scrubber
Y	Yes

SECTION 1: COMPANY AND TEST LOCATION SUMMARY

1. COMPANY: ASH GROVE CEMENT COMPANY

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
FOREMAN	AR	ARD981512270	6	228	KILN NO. 2
FOREMAN	AR	ARD981512270	6	403	KILN NO. 1
FOREMAN	AR	ARD981512270	6	404	KILN NO. 3
CHANUTE	KS	KSD031203318	7	401	KILN NO. 1
CHANUTE	KS	KSD031203318	7	402	KILN NO. 2
LOUISVILLE	NE	NED007260672	7	405	KILN NO. 1
LOUISVILLE	NE	NED007260672	7	406	KILN NO. 2

1. COMPANY: CONTINENTAL CEMENT COMPANY

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
HANNIBAL	MO	MOD054018288	7	319	KILN NO. 1

1. COMPANY: ESSROC CORPORATION

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
LOGANSPORT	IN	IND005081542	5	300	KILN NO. 1
DORADO	PR	PRD980526115	2	301	KILN NO. 1

1. COMPANY: GIANT CEMENT COMPANY

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
HARLEYVILLE	SC	SCD003351699	4	200	KILN NO. 4
HARLEYVILLE	SC	SCD003351699	4	201	KILN NO. 5

1. COMPANY: HEARTLAND CEMENT COMPANY

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
INDEPENDENCE	KS	KSD980739999	7	202	KILN NO. 1

1. COMPANY: HOLNAM INC.

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
CLARKSVILLE	MO	MOD029729688	7	204	KILN NO. 1
ARTESIA	MS	MSD077655876	4	203	KILN NO. 1
HOLLY HILL	SC	SCD003368891	4	205	KILN NO. 1
HOLLY HILL	SC	SCD003368891	4	206	KILN NO. 2

SECTION 1: COMPANY AND TEST LOCATION SUMMARY

1. COMPANY: KEYSTONE CEMENT COMPANY

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
BATH	PA	PAD002389559	3	207	KILN NO. 1
BATH	PA	PAD002389559	3	208	KILN NO. 2

1. COMPANY: LAFARGE

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
DEMOPOLIS	AL	ALD067119966	4	321	KILN NO. 1
FREDONIA	KS	KSD007148034	7	322	KILN NO. 1
FREDONIA	KS	KSD007148034	7	323	KILN NO. 2
ALPENA	MI	MID005379607	5	320	KILN NO. 23
PAULDING	OH	OHD005048947	5	302	KILN NO. 2

1. COMPANY: LONE STAR INDUSTRIES, INC.

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
GREENCASTLE	IN	IND006419212	5	304	KILN NO. 1
CAPE GIRARDEAU	MO	MO981127319	7	303	KILN NO. 1

1. COMPANY: MEDUSA CEMENT COMPANY

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
WAMPUM	PA	PAD083965897	3	305	KILN NO. 1,2
WAMPUM	PA	PAD083965897	3	335	KILN NO. 3

1. COMPANY: NATIONAL CEMENT PLANT

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
LEBEC	CA	CAD982444887	9	306	KILN NO. 1

1. COMPANY: NORTH TEXAS CEMENT COMPANY

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
MIDLOTHIAN	TX	TXD007926496	6	308	KILN NO. 2

1. COMPANY: RIVER CEMENT

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
FESTUS	MO	MOD050232560	7	309	KILN NO. 1,2

SECTION 1: COMPANY AND TEST LOCATION SUMMARY

1. COMPANY: SOUTHDOWN

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
KOSMOSDALE	KY	KYD024111981	4	317	KILN NO. 1
FAIRBORN	OH	OHD981195779	5	315	KILN NO. 1
KNOXVILLE	TN	TND106203375	4	316	KILN NO. 1

1. COMPANY: TEXAS INDUSTRIES

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
MIDLOTHIAN	TX	TXD007349327	6	318	KILN NO. 1

SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

1. COMPANY: ASH GROVE CEMENT COMPANY

2. STATE: AR

3. City: FOREMAN EPA ID: ARD981512270 REGION: 6

Emitting Process (EP) Information:

4. EP ID: 228
Device Name: KILN NO. 2
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL
Capacity: 65 TPH RAW FEED
Certificate of Compliance: 10/20/93
Test Report Date: 07/01/93

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
228C1R1	C1R1-12/10/91	COAL	HW SLD/LIQ	APCD TEMP > 450,MAX HW FEED,MAX PROD
228C1R2	C1R2-12/10/91	COAL	HW SLD/LIQ	APCD TEMP > 450,MAX HW FEED,MAX PROD
228C1R3	C1R3-12/11/91	COAL	HW SLD/LIQ	APCD TEMP > 450,MAX HW FEED,MAX PROD
228C1R4	COND. 1 RUN 4	COAL	HW SLD/LIQ	APCD TEMP > 450,MAX HW FEED,MAX PROD
228C2R1	C2R1-12/13/91	COAL	HW SLD/LIQ	MAX HW FEED
228C2R2	C2R2-12/16/91	COAL	HW SLD/LIQ	MAX HW FEED
228C2R3	C2R3-12/16/91	COAL	HW SLD/LIQ	MAX HW FEED
228C2R4	COND. 2 RUN 4	COAL	HW SLD/LIQ	MAX HW FEED
228C3R1	C3R1-1/7/92	COAL	HW SLD/LIQ	APCD TEMP > 450
228C3R2	C3R2-1/7/92	COAL	HW SLD/LIQ	APCD TEMP > 450
228C3R3	C3R3-1/8/92	COAL	HW SLD/LIQ	APCD TEMP > 450
228C3R4	COND. 3 RUN 4	COAL	HW SLD/LIQ	APCD TEMP > 450
228C4R1	2-7/28/93	COAL	HW SLD/LIQ/SLURRY	LOW COMB TEMP/DRE TEST
228C4R2	3-7/28/93	COAL	HW SLD/LIQ/SLURRY	LOW COMB TEMP/DRE TEST
228C4R3	4-7/28/93	COAL	HW SLD/LIQ/SLURRY	LOW COMB TEMP/DRE TEST

Emitting Process (EP) Information:

4. EP ID: 403
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL
Capacity: 36 TPH CLINKER
Certificate of Compliance: 10/26/92
Test Report Date: 07/01/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
403C1R1	PART 2 RUN 1	COAL	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
403C1R2	PART 2 RUN 2	COAL	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
403C1R3	PART 2 RUN 3	COAL	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
403C1R4	PART 2 RUN 4	COAL	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
403C2R1	PART I, RUN 1	COAL	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
403C2R2	PART I, RUN 2	COAL	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
403C2R3	PART I, RUN 3	COAL	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
403C2R4	PART I, RUN 4	COAL	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED

Emitting Process (EP) Information:

4. EP ID: 404
Device Name: KILN NO. 3
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL/COKE
Capacity: 54 TPH CLINKER
Certificate of Compliance: 10/29/92
Test Report Date: 07/01/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
404C1R1	PART 2 RUN 1	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
404C1R2	PART 2 RUN 2	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
404C1R3	PART 2 RUN 3	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
404C1R4	PART 2 RUN 4	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
404C1R5	PART 2 RUN 5	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
404C1R6	PART 2 RUN 6	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
404C2R1	PART 1 RUN 1	COAL/COKE	HW SLD/LIQ	LOW COMB TEMP,HIGH HW FEED
404C2R2	PART 1 RUN 2	COAL/COKE	HW SLD/LIQ	LOW COMB TEMP,HIGH HW FEED
404C2R3	PART 1 RUN 3	COAL/COKE	HW SLD/LIQ	LOW COMB TEMP,HIGH HW FEED
404C2R4	PART 1 RUN 4	COAL/COKE	HW SLD/LIQ	LOW COMB TEMP,HIGH HW FEED

2. STATE: KS

3. City: CHANUTE EPA ID: KSD031203318 REGION: 7

Emitting Process (EP) Information:

4. EP ID: 401
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: NONE
Capacity: 36 TPH CLINKER
Certificate of Compliance: 07/28/92
Test Report Date: 04/01/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
401C1R1	PART 2 RUN 1	NONE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
401C1R2	PART 2 RUN 2	NONE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
401C1R3	PART 2 RUN 3	NONE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
401C1R4	PART 2 RUN 4	NONE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
401C2R1	PART 1, RUN 1	NONE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
401C2R2	PART 1, RUN 2	NONE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
401C2R3	PART 1, RUN 3	NONE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
401C2R4	PART 1, RUN 4	NONE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
401C3R1	RUN 2	COAL/N.G.	HW SLD/LIQ	MAX. FEED
401C3R2	RUN 3	COAL/N.G.	HW SLD/LIQ	MAX. FEED
401C3R3	RUN 4	COAL/N.G.	HW SLD/LIQ	MAX. FEED
401C4R1	RUN 5	COAL/N.G.	HW SLD/LIQ	LOW COMB TEMP & HIGH FEED
401C4R2	RUN 6	COAL/N.G.	HW SLD/LIQ	LOW COMB TEMP & HIGH FEED
401C4R3	RUN 7	COAL/N.G.	HW SLD/LIQ	LOW COMB TEMP & HIGH FEED
401C4R4	RUN 8	COAL/N.G.	HW SLD/LIQ	LOW COMB TEMP & HIGH FEED
401C5R1	RUN 9	COAL/N.G.	HW SLD/LIQ	MAX. COMB TEMP & FEED/MIN. ESP POWER
401C5R2	RUN 10	COAL/N.G.	HW SLD/LIQ	MAX. COMB TEMP & FEED/ MIN.ESP POWER
401C5R3	RUN 11	COAL/N.G.	HW SLD/LIQ	MAX. COMB TEMP& FEED/MIN. ESP POWER
401C5R4	RUN 13	COAL/N.G.	HW SLD/LIQ	MAX. COMB TEMP & FEED/ MIN. ESP POWER

Emitting Process (EP) Information:

4. EP ID: 402
Device Name: KILN NO. 2
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: NONE
Capacity: 36 TPH CLINKER
Certificate of Compliance: 07/24/92
Test Report Date: 03/01/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
402C1R1	PART 2, RUN 1	NONE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
402C1R2	PART 2, RUN 2	NONE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
402C1R3	PART 2, RUN 3	NONE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
402C1R4	PART 2, RUN 4	NONE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
402C2R1	PART 1, RUN 1	NONE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
402C2R2	PART 1, RUN 2	NONE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
402C2R3	PART 1, RUN 3	NONE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
402C2R4	PART 1, RUN 4	NONE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
402C3R1	RUN 1	COAL/N.G.	HW SLD/LIQ	MIN COMB TEMP
402C3R2	RUN 2	COAL/N.G.	HW SLD/LIQ	MIN COMB TEMP
402C3R3	RUN 3	COAL/N.G.	HW SLD/LIQ	MIN COMB TEMP
402C3R4	RUN 4	COAL/N.G.	HW SLD/LIQ	MIN COMB TEMP
402C4R1	RUN 5	COAL/N.G.	HW SLD/LIQ	MAX. FEED,MAX PRODUCTION,MIN ESP POWER,
402C4R2	RUN 6	COAL/N.G.	HW SLD/LIQ	MAX. FEED,MAX PRODUCTION,MIN ESP POWER,
402C4R3	RUN 7	COAL/N.G.	HW SLD/LIQ	MAX. FEED,MAX PRODUCTION,MIN ESP POWER,
402C4R4	RUN 8	COAL/N.G.	HW SLD/LIQ	MAX. FEED,MAX PRODUCTION,MIN ESP POWER,
402C5R1	RUN 9	COAL/N.G.	HW SLD/LIQ	MAX FEED/ MAX PRODUCTION
402C5R2	RUN 10	COAL/N.G.	HW SLD/LIQ	MAX FEED/ MAX PRODUCTION
402C5R3	RUN 11	COAL/N.G.	HW SLD/LIQ	MAX FEED/ MAX PRODUCTION
402C5R4	RUN 12	COAL/N.G.	HW SLD/LIQ	MAX FEED/ MAX PRODUCTION

2. STATE: NE

3. City: LOUISVILLE EPA ID: NED007260672 REGION: 7

SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

Emitting Process (EP) Information:

4. EP ID: 405
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: NATURAL GAS
Capacity: 60 TPH CLINKER
Certificate of Compliance: 09/08/92
Test Report Date: 05/01/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
405C1R1	PART 2 RUN 1	NATURAL GAS	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
405C1R2	PART 2 RUN 2	NATURAL GAS	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
405C1R3	PART 2 RUN 3	NATURAL GAS	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
405C1R4	PART 2 RUN 4	NATURAL GAS	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
405C1R5	PART 2 RUN 5	NATURAL GAS	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
405C2R1	PART 1 RUN 1	NATURAL GAS	HW SLD/LIQ	LOW COMB TEMP
405C2R2	PART 1 RUN 2	NATURAL GAS	HW SLD/LIQ	LOW COMB TEMP
405C2R3	PART 1 RUN 3	NATURAL GAS	HW SLD/LIQ	LOW COMB TEMP
405C2R4	PART 1 RUN 4	NATURAL GAS	HW SLD/LIQ	LOW COMB TEMP
405C2R5	PART 1 RUN 5	NATURAL GAS	HW SLD/LIQ	LOW COMB TEMP
405C2R6	PART 1 RUN 6	NATURAL GAS	HW SLD/LIQ	LOW COMB TEMP

Emitting Process (EP) Information:

4. EP ID: 406
Device Name: KILN NO. 2
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL/COKE
Capacity: 75 TPH CLINKER
Certificate of Compliance: 09/30/92
Test Report Date: 08/01/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
406C1R1	PART 2 RUN 1	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
406C1R2	PART 2 RUN 2	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
406C1R3	PART 2 RUN 3	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
406C1R4	PART 2 RUN 4	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
406C1R5	PART 2 RUN 5	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
406C1R6	PART 2 RUN 6	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
406C1R7	PART 2 RUN 7	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
406C1R8	PART 2 RUN 8	COAL/COKE	HW SLD/LIQ	HIGH COMB TEMP,MIN ESP POWER
406C2R1	PART 1, RUN 1	COAL/COKE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
406C2R2	PART 1, RUN 2	COAL/COKE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
406C2R3	PART 1, RUN 3	COAL/COKE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED
406C2R4	PART 1, RUN 4	COAL/COKE	HW SLD/LIQ	LOW COMB TEMP, HIGH CL FEED,HIGH HW FEED

1. COMPANY: CONTINENTAL CEMENT COMPANY

2. STATE: MO

3.City: HANNIBAL EPA ID: MOD054018288 REGION: 7

Emitting Process (EP) Information:

4. EP ID: 319
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/SLUDGE
Fuel Type Summary: COAL
Capacity: 226 TPH CLINKER
Certificate of Compliance: 07/01/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
319B1A1	RUN 10	COAL	?	?
319B1A2	RUN 11	COAL	?	?
319B1A3	RUN 12	COAL	?	?
319B1R1	RUN 1	COAL	?	?
319B1R2	RUN 2	COAL	?	?
319B1R3	RUN 3	COAL	?	?
319B1R4	RUN 4	COAL	?	?
319B1R5	RUN 5	COAL	?	?

319B1R6	RUN 6	COAL	?	?
319B1R7	RUN 7	COAL	?	?
319B1R8	RUN 8	COAL	?	?
319B1R9	RUN 9	COAL	?	?
319C1	DAY 1 (5/5/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C1R1	RUN 1 (5/5/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C1R2	RUN 2 (5/5/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C1R3	RUN 3 (5/5/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C2	DAY 2 (5/6/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C2R1	RUN 1 (5/6/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C2R2	RUN 2 (5/6/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C2R3	RUN 3 (5/6/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C3	DAY 3 (5/8/92)	COAL	HW SLD/SLUDGE	LOW COMB TEMP
319C3R1	RUN 1 (5/8/92)	COAL	HW SLD/SLUDGE	LOW COMB TEMP
319C3R2	RUN 2 (5/8/92)	COAL	HW SLD/SLUDGE	LOW COMB TEMP
319C3R3	RUN 3 (5/8/92)	COAL	HW SLD/SLUDGE	LOW COMB TEMP
319C4	DAY 4/DAY2RER.(5	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C4R1	RUN 1 (5/27/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C4R2	RUN 2 (5/27/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C4R3	RUN 3 (5/27/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C4R4	RUN 4 (5/27/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C4R5	RUN 5 (5/27/92)	COAL	HW SLD/SLUDGE	HIGH COMB TEMP
319C5	RUN 1 (6/20/90)	COAL	NONE	BASELINE
319C6R1	RUN 2 (6/21/90)	COAL	HW SLD/LIQ	COAL PLUS WASTES (LIQUID & SOLID)
319C6R2	RUN 3 (6/22/90)	COAL	HW SLD/LIQ	COAL PLUS WASTES (LIQUID & SOLID)
319C6R3	RUN 4 (6/23/90)	COAL	HW SLD/LIQ	COAL PLUS WASTES (LIQUID & SOLID)
319C7R1	RUN 5 (7/5/90)	COAL/DIESEL	HW SLD/LIQ	COAL PLUS DIESEL FUEL
319C7R2	RUN 6 (7/6/90)	COAL/DIESEL	HW SLD/LIQ	COAL PLUS DIESEL FUEL
319C8	HCL TEST (7/2/90)	COAL	HW SLD/LIQ	COAL PLUS LIQUID WASTE
319C9R1	RUN 1	COAL	?	?
319C9R2	RUN 2	COAL	?	?
319C9R3	RUN 3	COAL	?	?
319C9R4	RUN 4	COAL	?	?
319C9R5	RUN 5	COAL	?	?
319C9R6	RUN 6	COAL	?	?

1. COMPANY: ESSROC CORPORATION

2. STATE: IN

3. City: LOGANSPORT EPA ID: IND005081542 REGION: 5

Emitting Process (EP) Information:

4. EP ID: 300
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 08/20/92
Test Report Date: 08/18/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
300C1	RUNS 3-6	COAL	NONE	BASELINE,LOW COMB TEMP
300C1R1	3	COAL	HW SLD/LIQ	LOW COMB TEMP
300C1R2	4	COAL	HW SLD/LIQ	LOW COMB TEMP
300C1R3	5	COAL	HW SLD/LIQ	LOW COMB TEMP
300C1R4	6	COAL	HW SLD/LIQ	LOW COMB TEMP
300C2R1	8	COAL	HW SLD/LIQ	HIGH COMB TEMP
300C2R2	9	COAL	HW SLD/LIQ	HIGH COMB TEMP
300C2R3	10	COAL	HW SLD/LIQ	HIGH COMB TEMP
300C2R4	11	COAL	HW SLD/LIQ	HIGH COMB TEMP

2. STATE: PR

3. City: DORADO EPA ID: PRD980526115 REGION: 2

SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

Emitting Process (EP) Information:

4. EP ID: 301
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: FF

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: 92 TPH CLINKER
Certificate of Compliance: 00/00/00
Test Report Date: 09/29/93

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
301C1R1	C1R1	COAL	HW LIQ	LOW COMB TEMP
301C1R2	C1R2	COAL	HW LIQ	LOW COMB TEMP
301C1R3	C1R3	COAL	HW LIQ	LOW COMB TEMP
301C2R1	C2R1	COAL	HW LIQ	HIGH COMB TEMP
301C2R2	C2R2	COAL	HW LIQ	HIGH COMB TEMP
301C2R3	C2R3	COAL	HW LIQ	HIGH COMB TEMP
301C3R1	C3R1	COAL	HW LIQ	PM
301C3R2	C3R2	COAL	HW LIQ	PM
301C3R3	C3R3	COAL	HW LIQ	PM

1. COMPANY: GIANT CEMENT COMPANY

2. STATE: SC

3. City: HARLEYVILLE EPA ID: SCD003351699 REGION: 4

Emitting Process (EP) Information:

4. EP ID: 200
Device Name: KILN NO. 4
# of Devices: 1
System Type: CEMENT KILN
APC System: FF

Waste Type Summary: HW SLD
Fuel Type Summary: COAL
Capacity: 32 TPH CLINKER
Certificate of Compliance: 08/21/92
Test Report Date: 07/22/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
200C1R1	1-4	COAL	HW SLD	MAX HW FEED, SPIKED METAL,SPIKED CHLORINE
200C1R2	2-4	COAL	HW SLD	MAX HW FEED, SPIKED METAL,SPIKED CHLORINE
200C1R3	3-4	COAL	HW SLD	MAX HW FEED, SPIKED METAL,SPIKED CHLORINE
200C1R4	4-4	COAL	HW SLD	MAX HW FEED, SPIKED METAL,SPIKED CHLORINE

Emitting Process (EP) Information:

4. EP ID: 201
Device Name: KILN NO. 5
# of Devices: 1
System Type: CEMENT KILN
APC System: FF

Waste Type Summary: HW SLD
Fuel Type Summary: COAL
Capacity: 36 TPH CLINKER
Certificate of Compliance: 08/21/92
Test Report Date: 07/22/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
201C1R1	1-5	COAL	HW SLD	MAX HW FEED, SPIKED METAL,SPIKED CHLORINE
201C1R2	2-5	COAL	HW SLD	MAX HW FEED, SPIKED METAL,SPIKED CHLORINE
201C1R3	3-5	COAL	HW SLD	MAX HW FEED, SPIKED METAL,SPIKED CHLORINE
201C1R4	4-5	COAL	HW SLD	MAX HW FEED, SPIKED METAL,SPIKED CHLORINE

1. COMPANY: HEARTLAND CEMENT COMPANY

2. STATE: KS

3. City: INDEPENDENCE EPA ID: KSD980739999 REGION: 7

SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

Emitting Process (EP) Information:

4. EP ID: 202
Device Name: KILN NO. 1
# of Devices: 4
System Type: CEMENT KILN
APC System: FF

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COKE
Capacity: 52 TPH CLINKER
Certificate of Compliance: 00/00/00
Test Report Date: 10/29/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
202C1R1	M5/50-101	COKE	HW SLD/LIQ	MIN HW FEED,MIN FF PRESS DROP
202C1R2	M5/50-102	COKE	HW SLD/LIQ	MIN HW FEED,MIN FF PRESS DROP
202C1R3	M5/50-103	COKE	HW SLD/LIQ	MIN HW FEED,MIN FF PRESS DROP
202C2R1	M5/50-201	NONE	HW LIQ	MAX HW FEED,MAX COMB TEMP,MIN FF PRESS DROP
202C2R2	M5/50-202	NONE	HW LIQ	MAX HW FEED,MAX COMB TEMP,MIN FF PRESS DROP
202C2R3	M5/50-203	NONE	HW LIQ	MAX HW FEED,MAX COMB TEMP,MIN FF PRESS DROP

1. COMPANY: HOLNAM INC.

2. STATE: MO

3.City: CLARKSVILLE EPA ID: MOD029729688 REGION: 7

Emitting Process (EP) Information:

4. EP ID: 204
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL/COKE
Capacity: 180 TPH CLINKER
Certificate of Compliance: 00/00/00
Test Report Date: 07/17/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
204C1R1	TEST I RUN 1	COAL/COKE	HW LIQ	MAX COMB TEMP
204C1R2	TESTI RUN 2	COAL/COKE	HW LIQ	MAX COMB TEMP
204C1R3	TEST I RUN 3	COAL/COKE	HW LIQ	MAX COMB TEMP
204C2R1	TEST II RUN 1	COAL/COKE	HW LIQ	MAX COMB TEMP
204C2R2	TEST II RUN 2	COAL/COKE	HW LIQ	MAX COMB TEMP
204C2R3	TEST II RUN 3	COAL/COKE	HW LIQ	MAX COMB TEMP
204C3R1	TEST III RUN 1	COAL/COKE	NONE	BASELINE,MAX COMB TEMP
204C3R2	TEST III RUN 2	COAL/COKE	NONE	BASELINE,MAX COMB TEMP
204C3R3	TEST III RUN 3	COAL/COKE	NONE	BASELINE,MAX COMB TEMP
204C4R1	TEST IV RUN 1	COAL/COKE	HW LIQ	LOW COMB TEMP
204C4R2	TEST IV RUN 2	COAL/COKE	HW LIQ	LOW COMB TEMP
204C4R3	TEST IV RUN 3	COAL/COKE	HW LIQ	LOW COMB TEMP

2. STATE: MS

3.City: ARTESIA EPA ID: MSD077655876 REGION: 4

Emitting Process (EP) Information:

4. EP ID: 203
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 08/19/93
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
203C1R1	2	COAL	HW LIQ	MAX HW FEED
203C1R2	3	COAL	HW LIQ	MAX HW FEED
203C1R3	4	COAL	HW LIQ	MAX HW FEED

2. STATE: SC

3.City: HOLLY HILL EPA ID: SCD003368891 REGION: 4

Emitting Process (EP) Information:

4. EP ID: 205
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL/COKE
Capacity: 48 TPH CLINKER
Certificate of Compliance: 00/00/00
Test Report Date: 08/17/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
205C1	TEST I	COAL/COKE	HW LIQ	MAX COMB TEMP
205C1R1	TEST I RUN 1	COAL/COKE	HW LIQ	MAX COMB TEMP
205C1R2	TEST I RUN 2	COAL/COKE	HW LIQ	MAX COMB TEMP
205C1R3	TEST I RUN 3	COAL/COKE	HW LIQ	MAX COMB TEMP
205C2	TEST II	COAL/COKE	HW LIQ	LOW COMB TEMP
205C2R1	TEST II RUN 1	COAL/COKE	HW LIQ	LOW COMB TEMP
205C2R2	TEST II RUN 2	COAL/COKE	HW LIQ	LOW COMB TEMP
205C2R3	TEST II RUN 3	COAL/COKE	HW LIQ	LOW COMB TEMP
205C3	TEST VII	COAL/COKE	NONE	BASELINE,APCD TEMP > 450
205C3R1	TEST VIII RUN 1	COAL/COKE	NONE	BASELINE,APCD TEMP > 450
205C3R2	TEST VIII RUN 2	COAL/COKE	NONE	BASELINE,APCD TEMP > 450
205C3R3	TEST VIII RUN 3	COAL/COKE	NONE	BASELINE,APCD TEMP > 450
205C4	TEST VIII	COAL/COKE	HW LIQ	APCD TEMP > 450
205C4R1	TEST VII RUN 1	COAL/COKE	HW LIQ	APCD TEMP > 450
205C4R2	TEST VII RUN 2	COAL/COKE	HW LIQ	APCD TEMP > 450
205C4R3	TEST VII RUN 3	COAL/COKE	HW LIQ	APCD TEMP > 450

Emitting Process (EP) Information:

4. EP ID: 206
Device Name: KILN NO. 2
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL/COKE
Capacity: 88 TPH CLINKER
Certificate of Compliance: 00/00/00
Test Report Date: 08/17/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
206C1	TEST III	COAL/COKE	HW LIQ	MAX COMB TEMP
206C1R1	TEST III RUN 1	COAL/COKE	HW LIQ	MAX COMB TEMP
206C1R2	TEST III RUN 2	COAL/COKE	HW LIQ	MAX COMB TEMP
206C1R3	TEST III RUN 3	COAL/COKE	HW LIQ	MAX COMB TEMP
206C2	TEST IV	COAL/COKE	HW LIQ	LOW COMB TEMP
206C2R1	TEST IV RUN 1	COAL/COKE	HW LIQ	LOW COMB TEMP
206C2R2	TEST IV RUN 2	COAL/COKE	HW LIQ	LOW COMB TEMP
206C2R3	TEST IV RUN 1	COAL/COKE	HW LIQ	LOW COMB TEMP
206C3	TEST V	COAL/COKE	HW LIQ	APCD TEMP > 450
206C3R1	TEST V RUN 1	COAL/COKE	HW LIQ	APCD TEMP > 450
206C3R2	TEST V RUN 2	COAL/COKE	HW LIQ	APCD TEMP > 450
206C3R3	TEST V RUN 3	COAL/COKE	HW LIQ	APCD TEMP > 450
206C4	TEST VI	COAL/COKE	NONE	BASELINE,APCD TEMP > 450
206C4R1	TEST VI RUN 1	COAL/COKE	NONE	BASELINE,APCD TEMP > 450
206C4R2	TEST VI RUN 2	COAL/COKE	NONE	BASELINE,APCD TEMP > 450
206C4R3	TEST VI RUN 3	COAL/COKE	NONE	BASELINE,APCD TEMP > 450

1. COMPANY: KEYSTONE CEMENT COMPANY

2. STATE: PA

3.City: BATH EPA ID: PAD002389559 REGION: 3

SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

Emitting Process (EP) Information:

4. EP ID: 207
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: MC/ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 00/00/00
Test Report Date: 01/06/93

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
207C1R1	2	COAL	HW LIQ	MAX PROD,MAX TIER III SPIKE,MAX SLURRY FEED
207C1R2	3	COAL	HW LIQ	MAX PROD,MAX TIER III SPIKE,MAX SLURRY FEED
207C1R3	4	COAL	HW LIQ	MAX PROD,MAX TIER III SPIKE,MAX SLURRY FEED
207C1R4	5	COAL	HW LIQ	MAX PROD,MAX TIER III SPIKE,MAX SLURRY FEED
207C2R1	1	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
207C2R2	6	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
207C2R3	7	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
207C2R4	8	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
207C2R5	9	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
207C2R6	10	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED

Emitting Process (EP) Information:

4. EP ID: 208
Device Name: KILN NO. 2
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 00/00/00
Test Report Date: 01/06/93

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
208C1R1	1	COAL	HW LIQ	MAX PROD,MAX TIER III SPIKE,MAX SLURRY FEED
208C1R2	2	COAL	HW LIQ	MAX PROD,MAX TIER III SPIKE,MAX SLURRY FEED
208C1R3	4	COAL	HW LIQ	MAX PROD,MAX TIER III SPIKE,MAX SLURRY FEED
208C1R4	4	COAL	HW LIQ	MAX PROD,MAX TIER III SPIKE,MAX SLURRY FEED
208C2R1	5	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
208C2R2	6	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
208C2R3	7	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
208C2R4	8	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
208C2R5	9	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED
208C2R6	10	COAL	HW LIQ	MAX PROD,>25% TIER III SPIKE,MAX SLURRY FEED

1. COMPANY: LAFARGE

2. STATE: AL

3. City: DEMOPOLIS EPA ID: ALD067119966 REGION: 4

Emitting Process (EP) Information:

4. EP ID: 321
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: 120 TPH CLINKER
Certificate of Compliance: 08/01/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
321C1R1	RUN 1	COAL	HW LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP,MIN
321C1R2	RUN 2	COAL	HW LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP,MIN
321C1R3	RUN 3	COAL	HW LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP,MIN
321C1R4	RUN 4	COAL	HW LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP,MIN
321C1R5	RUN 5	COAL	HW LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP,MIN
321C1R6	RUN 6	COAL	HW LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP,MIN

2. STATE: KS

3.City: FREDONIA EPA ID: KSD007148034 REGION: 7

Emitting Process (EP) Information:

4. EP ID: 322
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: NONE
Capacity: ?
Certificate of Compliance: 08/01/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
322C1R1	KILN 1, RUN 1	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
322C1R2	KILN 1, RUN 2	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
322C1R3	KILN 1, RUN 3	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
322C1R4	KILN 1, RUN 4	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
322C1R5	KILN 1, RUN 5	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
322C1R6	KILN 1, RUN 6	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP

Emitting Process (EP) Information:

4. EP ID: 323
Device Name: KILN NO. 2
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: NONE
Capacity: ?
Certificate of Compliance: 08/01/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
323C1R1	KILN 2, RUN 1	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
323C1R2	KILN 2, RUN 2	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
323C1R3	KILN 2, RUN 3	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
323C1R4	KILN 2, RUN 4	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
323C1R5	KILN 2, RUN 5	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
323C1R6	KILN 2, RUN 6	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP
323C1R7	KILN 2, RUN 7	NONE	HW SLD/LIQ	MAX PROD,MAX HW FEED,MAX COMB TEMP,MAX ESP TEMP

2. STATE: MI

3.City: ALPENA EPA ID: MID005379607 REGION: 5

Emitting Process (EP) Information:

4. EP ID: 320
Device Name: KILN NO. 23
# of Devices: 2
System Type: CEMENT KILN
APC System: FF

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: 69 TPH CLINKER
Certificate of Compliance: 08/01/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
320C1R1	RUN 1	COAL	HW LIQ	MAX PROD,MAX COMB TEMP
320C1R2	RUN 2	COAL	HW LIQ	MAX PROD,MAX COMB TEMP
320C1R3	RUN 3	COAL	HW LIQ	MAX PROD,MAX COMB TEMP
320C1R4	RUN 4	COAL	HW LIQ	MAX PROD,MAX COMB TEMP
320C1R5	RUN 5	COAL	HW LIQ	MAX PROD,MAX COMB TEMP
320C1R6	RUN 6	COAL	HW LIQ	MAX PROD,MAX COMB TEMP

2. STATE: OH

3.City: PAULDING EPA ID: OHD005048947 REGION: 5

SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

Emitting Process (EP) Information:

4. EP ID: 302
Device Name: KILN NO. 2
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: NONE
Capacity: 33 TPH CLINKER
Certificate of Compliance: 08/01/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
302C1R1	TEST RUN #1	NONE	HW SLD/LIQ	MAX COMB TEMP,MIN ESP POWER,MAX PROD
302C1R2	TEST RUN #2	NONE	HW SLD/LIQ	MAX COMB TEMP,MIN ESP POWER,MAX PROD
302C1R3	TEST RUN #3	NONE	HW SLD/LIQ	MAX COMB TEMP,MIN ESP POWER,MAX PROD
302C1R4	TEST RUN #4	NONE	HW SLD/LIQ	MAX COMB TEMP,MIN ESP POWER,MAX PROD
302C1R5	TEST RUN #5	NONE	HW SLD/LIQ	MAX COMB TEMP,MIN ESP POWER,MAX PROD
302C1R6	TEST RUN #6	NONE	HW SLD/LIQ	MAX COMB TEMP,MIN ESP POWER,MAX PROD

1. COMPANY: LONE STAR INDUSTRIES, INC.

2. STATE: IN

3. City: GREENCASTLE EPA ID: IND006419212 REGION: 5

Emitting Process (EP) Information:

4. EP ID: 304
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL
Capacity: 95 TPH CLINKER
Certificate of Compliance: 08/01/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
304C1	DAY 1	COAL	HW SLD/LIQ	HIGH COMB TEMP
304C1R1	DAY 1, RUN 1	COAL	HW SLD/LIQ	HIGH COMB TEMP
304C1R2	DAY 1 RUN 2	COAL	HW SLD/LIQ	HIGH COMB TEMP
304C1R3	DAY 1 RUN 3	COAL	HW SLD/LIQ	HIGH COMB TEMP
304C2	DAY 2	COAL	HW SLD/LIQ	HIGH COMB TEMP
304C2R1	DAY 2, RUN 1	COAL	HW SLD/LIQ	HIGH COMB TEMP
304C2R2	DAY 2, RUN 2	COAL	HW SLD/LIQ	HIGH COMB TEMP
304C2R3	DAY 2, RUN 3	COAL	HW SLD/LIQ	HIGH COMB TEMP
304C3	DAY 3	COAL	NONE	BASELINE
304C3R1	DAY 3, RUN 1	COAL	NONE	BASELINE
304C3R2	DAY 3, RUN 2	COAL	NONE	BASELINE
304C3R3	DAY 3, RUN 3	COAL	NONE	BASELINE
304C4	DAY 4	COAL	HW SLD/LIQ	LOW COMB TEMP
304C4R1	DAY 4, RUN 1	COAL	HW SLD/LIQ	LOW COMB TEMP
304C4R2	DAY 4, RUN 2	COAL	HW SLD/LIQ	LOW COMB TEMP
304C4R3	DAY 4, RUN 3	COAL	HW SLD/LIQ	LOW COMB TEMP

2. STATE: MO

3. City: CAPE GIRARDEAU EPA ID: MO981127319 REGION: 7

Emitting Process (EP) Information:

4. EP ID: 303
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: QC/FF

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL
Capacity: 270 TPH RAW FEED
Certificate of Compliance: 08/17/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
303C1R1	PHASE I, TEST #2	COAL	NONE	BASELINE
303C1R2	PHASE I, TEST #3	COAL	NONE	BASELINE
303C1R3	PHASE I, TEST #4	COAL	NONE	BASELINE

303C1R4	PHASE 1, TEST #7	COAL	NONE	BASELINE
303C1R5	PHASE 1, TEST #8	COAL	NONE	BASELINE
303C1R6	PHASE 1, TEST #9	COAL	NONE	BASELINE
303C2R1	PHASE 2, TEST #3	COAL	HW SLD/LIQ	LOW COMB TEMP
303C2R2	PHASE 2, TEST #4	COAL	HW SLD/LIQ	LOW COMB TEMP
303C2R3	PHASE 2, TEST #5	COAL	HW SLD/LIQ	LOW COMB TEMP
303C3R1	PHASE 2, TEST #7	COAL	HW SLD/LIQ	HIGH COMB TEMP
303C3R2	PHASE 2, TEST #8	COAL	HW SLD/LIQ	HIGH COMB TEMP
303C3R3	PHASE 2. TEST #9	COAL	HW SLD/LIQ	HIGH COMB TEMP

1. COMPANY: MEDUSA CEMENT COMPANY

2. STATE: PA

3. City: WAMPUM EPA ID: PAD083965897 REGION: 3

Emitting Process (EP) Information:

4. EP ID: 305
Device Name: KILN NO. 1,2
# of Devices: 2
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: 33 TPH CLINKER
Certificate of Compliance: 04/27/93
Test Report Date: 03/01/93

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
305C1R1	3/30/93: RUN 1	COAL	HW LIQ	MAX FEED,KILN 1 OFFLINE
305C1R2	3/30/93: RUN 2	COAL	HW LIQ	MAX FEED,KILN 1 OFFLINE
305C1R3	3/30/93: RUN 3	COAL	HW LIQ	MAX FEED,KILN 1 OFFLINE
305C2R1	3/31/93: RUN 4	COAL	HW LIQ	MAX FEED,KILNS 1 AND 2
305C2R2	3/31/93: RUN 5	COAL	HW LIQ	MAX FEED,KILNS 1 AND 2
305C2R3	3/31/93: RUN 6	COAL	HW LIQ	MAX FEED,KILNS 1 AND 2
305C3R1	7/8/92: RUN 1	COAL	HW LIQ	MAX FEED,KILNS 1 AND 2
305C3R2	7/8/92: RUN 2	COAL	HW LIQ	MAX FEED,KILNS 1 AND 2
305C3R3	7/8/92: RUN 3	COAL	HW LIQ	MAX FEED,KILNS 1 AND 2

Emitting Process (EP) Information:

4. EP ID: 335
Device Name: KILN NO. 3
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: 36 TPH CLINKER
Certificate of Compliance: 00/00/00
Test Report Date: 08/20/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
335C1R1	UNIT 3, RUN B-4	COAL	HW LIQ	MAX HW FEED
335C1R2	UNIT 3, RUN B-5	COAL	HW LIQ	MAX HW FEED
335C1R3	UNIT 3, RUN B-6	COAL	HW LIQ	MAX HW FEED

1. COMPANY: NATIONAL CEMENT PLANT

2. STATE: CA

3. City: LEBEC EPA ID: CAD982444887 REGION: 9

Emitting Process (EP) Information:

4. EP ID: 306
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: MC/FF

Waste Type Summary: HW LIQ
Fuel Type Summary: COKE
Capacity: ?
Certificate of Compliance: 05/01/93
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
306C1R1	TEST 1. MC	COKE	HW LIQ	HIGH COMB TEMP,MAX PROD

306C1R2	TEST 2. MC	COKE	HW LIQ	HIGH COMB TEMP,MAX PROD
306C1R3	TEST 3. MC	COKE	HW LIQ	HIGH COMB TEMP,MAX PROD
306C1R4	TEST 1. CARNOT	COKE	HW LIQ	HIGH COMB TEMP,MAX PROD
306C1R5	TEST 2. CARNOT	COKE	HW LIQ	HIGH COMB TEMP,MAX PROD
306C1R6	TEST 3. CARNOT	COKE	HW LIQ	HIGH COMB TEMP,MAX PROD

1. COMPANY: NORTH TEXAS CEMENT COMPANY

2. STATE: TX

3.City: MIDLOTHIAN EPA ID: TXD007926496 REGION: 6

Emitting Process (EP) Information:

4. EP ID: 308
Device Name: KILN NO. 2
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 08/21/92
Test Report Date: 10/30/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
308C1R1	C1R1	COAL	HW LIQ	HIGH COMB TEMP,HIGH APC TEMP
308C1R2	C1R2	COAL	HW LIQ	HIGH COMB TEMP,HIGH APC TEMP
308C1R3	C1R3	COAL	HW LIQ	HIGH COMB TEMP,HIGH APC TEMP

1. COMPANY: RIVER CEMENT

2. STATE: MO

3.City: FESTUS EPA ID: MOD050232560 REGION: 7

Emitting Process (EP) Information:

4. EP ID: 309
Device Name: KILN NO. 1,2
# of Devices: 2
System Type: CEMENT KILN
APC System: MC/ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COKE
Capacity: 77 TPH CLINKER
Certificate of Compliance: 10/01/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
309C1R1	7/5, COND1, TEST 1	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,LVL
309C1R2	7/5, COND1, TEST2	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,LVL
309C1R3	7/5, COND1, TEST3	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,LVL
309C1R4	6/29 COND 1 RUN 1	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,LVL
309C1R5	6/29 COND.1 RUN 2	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,LVL
309C1R6	6/29 COND. 1 RUN 3	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,LVL
309C2R1	7/6, COND2, TEST1	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,HVL
309C2R2	7/6, COND2, TEST2	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,HVL
309C2R3	7/6, COND2, TEST3	COKE	HW LIQ	HIGH COMB TEMP,MAX HW FEED,HVL
309C3R1	7/3 COND. 3 RUN 1	COKE	HW LIQ	MIN COMB TEMP,MAX HW FEED,LVL
309C3R2	7/3 COND. 3 RUN 2	COKE	HW LIQ	MIN COMB TEMP,MAX HW FEED,LVL
309C3R3	7/3 COND 3 RUN 3	COKE	HW LIQ	MIN COMB TEMP,MAX HW FEED,LVL

1. COMPANY: SOUTHDOWN

2. STATE: KY

3.City: KOSMOSDALE EPA ID: KYD024111981 REGION: 4

SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

Emitting Process (EP) Information:

4. EP ID: 317
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: FF

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 01/23/93
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
317C1R1	CONDITION 1, RUN 1	COAL	HW LIQ	MAX RAW MILL FF TEMP,SPIKED METALS
317C1R2	CONDITION 1, RUN 2	COAL	HW LIQ	MAX RAW MILL FF TEMP,SPIKED METALS
317C1R3	CONDITION 1, RUN 3	COAL	HW LIQ	MAX RAW MILL FF TEMP,SPIKED METALS
317C2R1	CONDITION 2, RUN 1	COAL	HW LIQ	MIN RAW MILL FF PRESS DROP,SPIKED METALS
317C2R2	CONDITION 2, RUN 2	COAL	HW LIQ	MIN RAW MILL FF PRESS DROP,SPIKED METALS
317C2R3	CONDITION 2, RUN 3	COAL	HW LIQ	MIN RAW MILL FF PRESS DROP,SPIKED METALS
317C3R1	CONDITION 3, RUN 1	COAL	NONE	BASELINE
317C3R2	CONDITION 3, RUN 2	COAL	NONE	BASELINE
317C3R3	CONDITION 3, RUN 3	COAL	NONE	BASELINE

2. STATE: OH

3.City: FAIRBORN EPA ID: OHD981195779 REGION: 5

Emitting Process (EP) Information:

4. EP ID: 315
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: FF

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 08/27/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
315C1	COND.1 AVE.	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C1R1	COND. 1 RUN 1	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C1R2	COND. 1 RUN 2	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C1R3	COND. 1 RUN 3	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C2	COND. 2 AVE.	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C2R1	COND. 2 RUN 1	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C2R2	COND. 2 RUN 2	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C2R3	COND. 2 RUN 3	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C3	COND. 3 AVE.	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C3R1	COND. 3 RUN 1	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C3R2	COND. 3 RUN 2	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED
315C3R3	COND. 3 RUN 3	COAL	HW SLD/LIQ	HIGH METALS FEED,HIGH CL FEED

2. STATE: TN

3.City: KNOXVILLE EPA ID: TND106203375 REGION: 4

Emitting Process (EP) Information:

4. EP ID: 316
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: FF

Waste Type Summary: HW SLD/LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 06/25/92
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
316C1	COND. 1	COAL	HW SLD/LIQ	HIGH HW FEED
316C1R1	CONDITION 1, RUN 1	COAL	HW SLD/LIQ	HIGH HW FEED
316C1R2	CONDITION 1, RUN 2	COAL	HW SLD/LIQ	HIGH HW FEED
316C1R3	CONDITION 1, RUN 3	COAL	HW SLD/LIQ	HIGH HW FEED
316C2	COND. 2	COAL	HW SLD/LIQ	HIGH HW FEED, REDUCED METALS
316C2R1	CONDITION 2, RUN 1	COAL	HW SLD/LIQ	HIGH HW FEED, REDUCED METALS
316C2R2	CONDITION 2, RUN 2	COAL	HW SLD/LIQ	HIGH HW FEED, REDUCED METALS
316C2R3	CONDITION 2, RUN 3	COAL	HW SLD/LIQ	HIGH HW FEED, REDUCED METALS

1. COMPANY: TEXAS INDUSTRIES

2. STATE: TX

3.City: MIDLOTHIAN EPA ID: TXD007349327 REGION: 6

Emitting Process (EP) Information:

4. EP ID: 318
Device Name: KILN NO. 1
# of Devices: 1
System Type: CEMENT KILN
APC System: ESP

Waste Type Summary: HW LIQ
Fuel Type Summary: COAL
Capacity: ?
Certificate of Compliance: 05/21/93
Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
318C1R1	DRE MODE 1, RUN 1	COAL	HW LIQ	MAX HW FEED, POHC SPIKING, NO QUENCH
318C1R2	DRE MODE 1, RUN 2	COAL	HW LIQ	MAX HW FEED, POHC SPIKING, NO QUENCH
318C1R3	DRE MODE 1, RUN 3	COAL	HW LIQ	MAX HW FEED, POHC SPIKING, NO QUENCH
318C2R1	METAL MODE 1, RUN	COAL	HW LIQ	MAX HW FEED, POHC SPIKING, NO QUENCH
318C2R2	METAL MODE 1, RUN	COAL	HW LIQ	MAX HW FEED, POHC SPIKING, NO QUENCH
318C2R3	METAL MODE 1, RUN	COAL	HW LIQ	MAX HW FEED, POHC SPIKING, NO QUENCH
318C3R1	DRE MODE 2, RUN1	COAL	HW LIQ	COLD MODE
318C3R2	DRE MODE 2, RUN 2	COAL	HW LIQ	COLD MODE
318C3R3	DRE MODE 2, RUN 3	COAL	HW LIQ	COLD MODE

SECTION 3: KILN DESIGN AND OPERATING INFORMATION

1. COMPANY: ASH GROVE CEMENT COMPANY

2. STATE: AR

3. CITY: FOREMAN EPA ARD981512270 REGION: 6

4. EP ID: 228 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft):
Surface Area (ft2):
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft):
Length to Diameter:
Volume (ft3):
Bypass: N
Dust Recycle: N

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
228C1R1	HIGH END, CHAIN	1592	
228C1R2	HIGH END, CHAIN	1588	
228C1R3	HIGH END, CHAIN	1544	
228C2R1	HIGH END, CHAIN	1574	
228C2R2	HIGH END, CHAIN	1651	
228C2R3	HIGH END, CHAIN	1691	
228C3R1	HIGH END, CHAIN	1624	
228C3R2	HIGH END, CHAIN	1637	
228C3R3	HIGH END, CHAIN	1623	
228C4R1	CHAIN/GAS INLET,MIN	1450	
228C4R2	CHAIN/GAS INLET,MIN	1413	
228C4R3	CHAIN/GAS INLET,MIN	1465	

4. EP ID: 403 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 450
Surface Area (ft2): 16965
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft): 12
Length to Diameter: 37
Volume (ft3): 50894
Bypass: N
Dust Recycle: N

Comment: RAW MATERIAL FEED 60 TPH

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
403C1R1	HIGH END, CHAIN	1558	
403C1R2	HIGH END, CHAIN	1594	
403C1R3	HIGH END, CHAIN	1705	
403C1R4	HIGH END, CHAIN	1639	
403C2R1	HIGH END, CHAIN	1311	
403C2R2	HIGH END, CHAIN	1319	
403C2R3	HIGH END, CHAIN	1293	
403C2R4	HIGH END, CHAIN	1322	

4. EP ID: 404 DEVICE NAME: KILN NO. 3 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 500
Surface Area (ft2): 21206
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft): 13
Length to Diameter: 37
Volume (ft3): 71570
Bypass: N
Dust Recycle: N

Comment: CLINKER PRODUCTION 54 TONS/HR, RAW MATERIAL 90 DRY TONS/HR

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
404C1R1	HIGH END, CHAIN	1769	
404C1R2	HIGH END, CHAIN	1767	
404C1R3	HIGH END, CHAIN	1788	
404C1R4	HIGH END, CHAIN	1755	
404C1R5	HIGH END, CHAIN	1838	
404C1R6	HIGH END, CHAIN	1757	
404C2R1	HIGH END, CHAIN	1398	
404C2R2	HIGH END, CHAIN	1362	
404C2R3	HIGH END, CHAIN	1370	
404C2R4	HIGH END, CHAIN	1332	

2. STATE: KS

3. CITY: CHANUTE EPA KSD031203318 REGION: 7

4. EP ID: 401 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 450
Surface Area (ft2): 16965
Refractory Type: VARIETY
Burner Type: MULTIFUEL
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft): 12
Length to Diameter: 37
Volume (ft3): 50894
Bypass: N
Dust Recycle: N

Comment: RAW MATERIAL FEED 65 TPH

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
401C1R1	HIGH END, CHAIN	1830	
401C1R2	HIGH END, CHAIN	1944	
401C1R3	HIGH END, CHAIN	1918	
401C1R4	HIGH END, CHAIN	1936	
401C2R1	HIGH END, CHAIN	1804	
401C2R2	HIGH END, CHAIN	1783	
401C2R3	HIGH END, CHAIN	1772	
401C2R4	HIGH END, CHAIN	1729	
401C3R1	CHAINS	1786	
401C3R2	CHAINS	1862	
401C3R3	CHAINS	1855	
401C4R1	CHAINS	1565	
401C4R2	CHAINS	1580	
401C4R3	CHAINS	1643	
401C4R4	CHAINS	1643	

401C5R1	CHAINS	1970	
401C5R2	CHAINS	2001	
401C5R3	CHAINS	2054	
401C5R4	CHAINS	1922	

4. EP ID: 402 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 450
Surface Area (ft2): 16965
Refractory Type: VARIETY
Burner Type: MULTIFUEL
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft): 12
Length to Diameter: 37
Volume (ft3): 50894
Bypass: Y
Dust Recycle: N

Comment: RAW MATERIAL FEED 65 TPH

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
402C1R1	HIGH END, CHAIN	2000	
402C1R2	HIGH END, CHAIN	1906	
402C1R3	HIGH END, CHAIN	2013	
402C1R4	HIGH END, CHAIN	1978	
402C2R1	HIGH END, CHAIN	1861	
402C2R2	HIGH END, CHAIN	1782	
402C2R3	HIGH END, CHAIN	1820	
402C2R4	HIGH END, CHAIN	1810	
402C3R1	CHAINS	1583	
402C3R2	CHAINS	1733	
402C3R3	CHAINS	1743	
402C3R4	CHAINS	1716	
402C4R1	CHAINS	2052	
402C4R2	CHAINS	2072	
402C4R3	CHAINS	2046	
402C4R4	CHAINS	2039	
402C5R1	CHAINS	2052	
402C5R2	CHAINS	2072	
402C5R3	CHAINS	2046	
402C5R4	CHAINS	2039	

2. STATE: NE

3. CITY: LOUISVILLE EPA NED007260672 REGION: 7

4. EP ID: 405 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: DRY KILN (SEMI)

Chamber Specific Design Information

Chamber Name: ACL KILN
# of Devices: 1
Length (ft): 160
Surface Area (ft2): 7791
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: Y

Chamber Type: SINGLE
Manufacturer: ALLIS-CHALMERS
Diameter (ft): 15
Length to Diameter: 10
Volume (ft3): 30191
Bypass: Y
Dust Recycle: N

Comment: SEMI-DRY TRAVELING GRATE PREHEATER

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
405C1R1	HIGH END, PREHEATER	1892	
405C1R2	HIGH END, PREHEATER	1808	
405C1R3	HIGH END, PREHEATER	1738	
405C1R4	HIGH END, PREHEATER	1911	
405C1R5	HIGH END, PREHEATER	1860	
405C2R1	HIGH END, PREHEATER	1791	
405C2R2	HIGH END, PREHEATER	1791	
405C2R3	HIGH END, PREHEATER	1749	
405C2R4	HIGH END, PREHEATER	1699	
405C2R5	HIGH END, PREHEATER	1729	
405C2R6	HIGH END, PREHEATER	1807	

4. EP ID: 406 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 164
Surface Area (ft2): 6440
Refractory Type: ?
Burner Type: ?
Precalciner: Y
Preheater: Y

Chamber Type: SINGLE
Manufacturer: HUMBOLDT WEDOG
Diameter (ft): 12
Length to Diameter: 13
Volume (ft3): 20126
Bypass: Y
Dust Recycle: N

Comment: CLINKER PRODUCTION 75 TPH, RAW MATERIAL 125 TPH

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
406C1R1	HIGH END	2356	
406C1R2	HIGH END	2458	
406C1R3	HIGH END	2394	
406C1R4	HIGH END	2396	
406C1R5	HIGH END	2192	
406C1R6	HIGH END	2113	
406C1R7	HIGH END	2140	
406C1R8	HIGH END	2176	
406C2R1	HIGH END	2356	
406C2R2	HIGH END	2458	
406C2R3	HIGH END	2394	
406C2R4	HIGH END	2396	

1. COMPANY: CONTINENTAL CEMENT COMPANY

2. STATE: MO

3. CITY: HANNIBAL EPA MOD054018288 REGION: 7

4. EP ID: 319 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 638
Surface Area (ft2): 31667
Refractory Type: VARIETY
Burner Type: MULTIFUEL
Precalciner: N
Preheater: N

Chamber Type: SINGLE

Manufacturer: ALLIS-CHALMERS
Diameter (ft): 15
Length to Diameter: 40
Volume (ft3): 125061
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
319C1R1	?	2350	
319C1R2	?	2350	
319C1R3	?	2350	
319C2R1	?	2380	
319C2R2	?	2380	
319C2R3	?	2380	
319C3R1	?	2150	
319C3R2	?	2150	
319C3R3	?	2150	
319C4R1	?	2350	
319C4R2	?	2350	
319C4R3	?	2350	
319C4R4	?	2350	
319C4R5	?	2350	
319C5	CHAINS	1619	
319C6R1	CHAINS	1700	
319C6R2	CHAINS	1766	
319C6R3	CHAINS	1785	
319C7R1	CHAINS	1590	
319C7R2	CHAINS	1600	
319C8	CHAINS	1693	

1. COMPANY: ESSROC CORPORATION

2. STATE: IN

3. CITY: LOGANSPORT EPA IND005081542 REGION: 5

4. EP ID: 300 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 450
Surface Area (ft2): 17191
Refractory Type: ?
Burner Type: 1PIPE+1CONCEN BRNER
Precalciner: N
Preheater: N

Chamber Type: SINGLE

Manufacturer: F. L. SMIDTH
Diameter (ft): 12
Length to Diameter: 37
Volume (ft3): 50894
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
300C1R1	HIGH END, CHAIN	496	9.4
300C1R2	HIGH END, CHAIN	504	9.9
300C1R3	HIGH END, CHAIN	492	9.8
300C1R4	HIGH END, CHAIN	517	9.8
300C2R1	HIGH END, CHAIN	606	9.6
300C2R2	HIGH END, CHAIN	605	10
300C2R3	HIGH END, CHAIN	607	9.6
300C2R4	HIGH END, CHAIN	614	9.9

2. STATE: PR

3. CITY: DORADO EPA PRD980526115 REGION: 2

4. EP ID: 301 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 175
Surface Area (ft2): 7147
Refractory Type: ?
Burner Type: ?
Precalciner: Y
Preheater: Y

Chamber Type: SINGLE

Manufacturer: F. L. SMIDTH
Diameter (ft): 13
Length to Diameter: 13
Volume (ft3): 23228
Bypass: Y
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
301C1R1	LOW END, BURNING ZONE	2429	7.7
301C1R2	LOW END, BURNING ZONE	2630	7.2
301C1R3	LOW END, BURNING ZONE	2465	5
301C2R1	LOW END, BURNING ZONE	2729	7.7
301C2R2	LOW END, BURNING ZONE	2640	5.8
301C2R3	LOW END, BURNING ZONE	2708	6.5
301C3R1	LOW END, BURNING ZONE	2429	
301C3R2	LOW END, BURNING ZONE	2497	
301C3T3	LOW END, BURNING ZONE	2637	

1. COMPANY: GIANT CEMENT COMPANY

2. STATE: SC

3. CITY: HARLEYVILLE EPA SCD003351699 REGION: 4

4. EP ID: 200 DEVICE NAME: KILN NO. 4 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 425
Surface Area (ft2): 14946
Refractory Type: ?
Burner Type: CONVENTIONAL
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: F. L. SMIDTH
Diameter (ft): 11
Length to Diameter: 38
Volume (ft3): 41850
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
200C1R1	HIGH END, CHAIN	1612	
200C1R2	HIGH END, CHAIN	1634	
200C1R3	HIGH END, CHAIN	1706	
200C1R4	HIGH END, CHAIN	1655	

4. EP ID: 201 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 424
Surface Area (ft2): 16013
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: FULLER/TRAYLOR
Diameter (ft): 12
Length to Diameter: 35
Volume (ft3): 48040
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
201C1R1	HIGH END, CHAIN	1605	
201C1R2	HIGH END, CHAIN	1610	
201C1R3	HIGH END, CHAIN	1608	
201C1R4	HIGH END, CHAIN	1611	

1. COMPANY: HEARTLAND CEMENT COMPANY

2. STATE: KS

3. CITY: INDEPENDENCE EPA KSD980739999 REGION: 7

4. EP ID: 202 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 4
Length (ft): 174
Surface Area (ft2): 4945
Refractory Type: ?
Burner Type: MULTIFUEL
Precalciner: N
Preheater: Y

Chamber Type: SINGLE
Manufacturer: VULCAN IRON WORKS
Diameter (ft): 9
Length to Diameter: 19
Volume (ft3): 11127
Bypass: N
Dust Recycle: Y

Comment: DRIVE SYS- 75 HP MAX., THERMAL CAP.-66 MMBTU, CLINKER CAP.-312 TON/DAY

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
202C1R1	HIGH END	0	
202C1R2	HIGH END	0	
202C1R3	HIGH END	0	
202C2R1	HIGH END	1394	
202C2R2	HIGH END	1350	
202C2R3	HIGH END	1366	

1. COMPANY: HOLNAM INC.

2. STATE: MO

3. CITY: CLARKSVILLE EPA MOD029729688 REGION: 7

4. EP ID: 204 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 760
Surface Area (ft2): 54887
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: F. L. SMIDTH
Diameter (ft): 23
Length to Diameter: 33
Volume (ft3): 315601
Bypass: N
Dust Recycle: Y

Comment: KILN ROTATION 72 REV/HR MAX.

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
204C1R1	LOW END, BURNING ZONE	2600	
204C1R2	LOW END, BURNING ZONE	2600	
204C1R3	LOW END, BURNING ZONE	2600	
204C2R1	LOW END, BURNING ZONE	2600	
204C2R2	LOW END, BURNING ZONE	2600	
204C2R3	LOW END, BURNING ZONE	2600	

2. STATE: MS

3. CITY: ARTESIA EPA MSD077655876 REGION: 4

4. EP ID: 203 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 500
Surface Area (ft2): 21980
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: ?

Chamber Type: SINGLE

Manufacturer: ALLIS-CHALMERS
Diameter (ft): 14
Length to Diameter: 35
Volume (ft3): 76930
Bypass: N
Dust Recycle: ?

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
203C1R1	LOW END, BURNING ZONE	2731	
203C1R2	LOW END, BURNING ZONE	2770	
203C1R3	LOW END, BURNING ZONE	2791	

2. STATE: SC

3. CITY: HOLLY HILL EPA SCD003368891 REGION: 4

4. EP ID: 205 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 500
Surface Area (ft2): 19625
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE

Manufacturer: TRAYLOR ENGINEERS
Diameter (ft): 12
Length to Diameter: 40
Volume (ft3): 61328
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
205C1R1	?	1780	
205C1R2	?	1780	
205C1R3	?	1780	
205C2R1	?	1750	
205C2R2	?	1750	
205C2R3	?	1750	
205C3R1	?	1780	
205C3R2	?	1780	
205C3R3	?	1780	
205C4R1	?	1790	
205C4R2	?	1790	
205C4R3	?	1790	

4. EP ID: 206 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

SECTION 3: KILN DESIGN AND OPERATING INFORMATION

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 580
Surface Area (ft2): 33692
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ALLIS-CHALMERS
Diameter (ft): 18
Length to Diameter: 31
Volume (ft3): 155826
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
206C1R1	?	1960	
206C1R2	?	1960	
206C1R3	?	1960	
206C2R1	?	1790	
206C2R2	?	1790	
206C2R3	?	1790	
206C3R1	?	1950	
206C3R2	?	1950	
206C3R3	?	1950	
206C4R1	?	1900	
206C4R2	?	1900	
206C4R3	?	1900	

1. COMPANY: KEYSTONE CEMENT COMPANY

2. STATE: PA

3. CITY: BATH EPA PAD002389559 REGION: 3

4. EP ID: 207 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: MC/ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft):
Surface Area (ft2):
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft):
Length to Diameter:
Volume (ft3):
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
207C1R1	?	1560	
207C1R2	?	1546	
207C1R3	?	1544	
207C1R4	?	1553	
207C2R1	?	1562	
207C2R2	?	1541	
207C2R3	?	1515	
207C2R4	?	1511	
207C2R5	?	1548	
207C2R6	?	1512	

4. EP ID: 208 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft):
Surface Area (ft2):
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N
Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft):
Length to Diameter:
Volume (ft3):
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
208C1R1	?	1791	
208C1R2	?	1787	
208C1R3	?	1791	
208C1R4	?	1707	
208C2R1	?	1787	
208C2R2	?	1775	
208C2R3	?	1757	
208C2R4	?	1736	
208C2R5	?	1734	
208C2R6	?	1775	

1. COMPANY: LAFARGE

2. STATE: AL

3. CITY: DEMOPOLIS EPA ALD067119966 REGION: 4

4. EP ID: 321 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 230
Surface Area (ft2): 10472
Refractory Type: ?
Burner Type: CONVENTIONAL
Precalciner: N
Preheater: Y
Chamber Type: SINGLE
Manufacturer: ALLIS CHALMERS
Diameter (ft): 14
Length to Diameter: 15
Volume (ft3): 37961
Bypass: Y
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
321C1R1	?	1602	
321C1R2	?	1614	
321C1R3	?	1610	
321C1R4	?	1633	
321C1R5	?	1641	
321C1R6	?	1643	

2. STATE: KS

3. CITY: FREDONIA EPA KSD007148034 REGION: 7

4. EP ID: 322 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 337
Surface Area (ft2): 11111
Refractory Type: ?
Burner Type: MULTIFUEL
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft): 10
Length to Diameter: 32
Volume (ft3): 29166
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
322C1R1	?	3045	
322C1R2	?	3055	
322C1R3	?	2998	
322C1R4	?	3018	
322C1R5	?	2991	
322C1R6	?	2945	

4. EP ID: 323 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 425
Surface Area (ft2): 15080
Refractory Type: ?
Burner Type: MULTIFUEL
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: F.L. SMITH
Diameter (ft): 11
Length to Diameter: 37
Volume (ft3): 42601
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
323C1R1	?	2976	
323C1R2	?	3053	
323C1R3	?	2795	
323C1R4	?	3002	
323C1R5	?	3011	
323C1R6	?	2911	

2. STATE: MI

3. CITY: ALPENA EPA MID005379607 REGION: 5

4. EP ID: 320 DEVICE NAME: KILN NO. 23 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 2
Length (ft): 500
Surface Area (ft2): 30630
Refractory Type: ?
Burner Type: DULE FUEL
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: FULLER
Diameter (ft): 19
Length to Diameter: 25
Volume (ft3): 149324
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
320C1R1	LOW END, BURNING ZONE	1774	
320C1R2	LOW END, BURNING ZONE	1775	
320C1R3	LOW END, BURNING ZONE	1754	
320C1R4	LOW END, BURNING ZONE	1814	
320C1R5	LOW END, BURNING ZONE	1834	
320C1R6	LOW END, BURNING ZONE	1825	

2. STATE: OH

3. CITY: PAULDING EPA OHD005048947 REGION: 5

4. EP ID: 302 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 425
Surface Area (ft2): 14687
Refractory Type: BRICK
Burner Type: CUSTOM TORCH+NOZZ
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft): 11
Length to Diameter: 38
Volume (ft3): 40389
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
302C1R1	COMBUSTION CHAMBER	1625	7
302C1R2	COMBUSTION CHAMBER	1717	7
302C1R3	COMBUSTION CHAMBER	1702	7
302C1R4	COMBUSTION CHAMBER	1699	7
302C1R5	COMBUSTION CHAMBER	1723	7
302C1R6	COMBUSTION CHAMBER	1781	7.5

1. COMPANY: LONE STAR INDUSTRIES, INC.

2. STATE: IN

3. CITY: GREENCASTLE EPA IND006419212 REGION: 5

4. EP ID: 304 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 580
Surface Area (ft2): 35531
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ALLIS-CHALMERS
Diameter (ft): 19
Length to Diameter: 29
Volume (ft3): 173216
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
304C1	?	2120	1.4
304C2	?	2091	1.4
304C3	?	1961	1.4
304C4	?	1896	1.5

2. STATE: MO

3. CITY: CAPE GIRARDEAU EPA MO981127319 REGION: 7

4. EP ID: 303 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: QC/FF

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 235
Surface Area (ft2): 10705
Refractory Type: ?
Burner Type: ?
Precalciner: Y
Preheater: Y

Chamber Type: SINGLE
Manufacturer: ALLIS-CHALMERS
Diameter (ft): 14
Length to Diameter: 16
Volume (ft3): 38806
Bypass: Y
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
303C1R1	?	1678	4.3
303C1R2	?	1683	4.2
303C1R3	?	1693	4.4
303C1R4	?	1695	4.1
303C1R5	?	1684	3.6
303C1R6	?	1694	3.3
303C2R1	?	1644	3.1
303C2R2	?	1651	3.8
303C2R3	?	1662	3.6
303C3R1	?	1673	4.5
303C3R2	?	1665	6.9
303C3R3	?	1669	6.4

1. COMPANY: MEDUSA CEMENT COMPANY

2. STATE: PA

3. CITY: WAMPUM EPA PAD083965897 REGION: 3

4. EP ID: 305 DEVICE NAME: KILN NO. 1,2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 2
Length (ft): 390
Surface Area (ft2): 14700
Refractory Type: ?
Burner Type: DUAL CHANNEL PIPES
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ALLIS-CHALMERS
Diameter (ft): 12
Length to Diameter: 32
Volume (ft3): 44108
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
305C1R1	HIGH END, CHAIN	1692	
305C1R2	HIGH END, CHAIN	1747	
305C1R3	HIGH END, CHAIN	1777	

4. EP ID: 335 DEVICE NAME: KILN NO. 3 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 390
Surface Area (ft2): 14700
Refractory Type: ?
Burner Type: DUAL CHANNEL PIPES
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ALLIS-CHAMBER
Diameter (ft): 12
Length to Diameter: 32
Volume (ft3): 44108
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
335C1R1	?	1741	
335C1R2	?	1733	
335C1R3	?	1700	

1. COMPANY: NATIONAL CEMENT PLANT

2. STATE: CA

3. CITY: LEBEC EPA CAD982444887 REGION: 9

4. EP ID: 306 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: MC/FF

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 577
Surface Area (ft2): 30362
Refractory Type: VARIETY
Burner Type: PILLARD MULTIFUEL
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: TRAYLOR ENGINEERS
Diameter (ft): 16
Length to Diameter: 34
Volume (ft3): 127109
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
306C1R1	?	1877	
306C1R2	?	1854	
306C1R3	?	1870	
306C1R4	?	1877	
306C1R5	?	1854	
306C1R6	?	1870	

1. COMPANY: NORTH TEXAS CEMENT COMPANY

2. STATE: TX

3. CITY: MIDLOTHIAN EPA TXD007926496 REGION: 6

4. EP ID: 308 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft):
Surface Area (ft2):
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft):
Length to Diameter:
Volume (ft3):
Bypass: N
Dust Recycle: N

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
308NODATA		0	

1. COMPANY: RIVER CEMENT

2. STATE: MO

3. CITY: FESTUS EPA MOD050232560 REGION: 7

4. EP ID: 309 DEVICE NAME: KILN NO. 1,2 SYSTEM TYPE: CEMENT KILN APC SYS: MC/ESP

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 2
Length (ft): 550
Surface Area (ft2): 29374
Refractory Type: ?
Burner Type: 1CONVBRNR+1ATMZBRNR
Precalciner: N
Preheater: N

Chamber Type: SINGLE

Manufacturer: SMIDTH/ALLIS CHAMBER
Diameter (ft): 17
Length to Diameter: 32
Volume (ft3): 124839
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
309C1R1	?	1809	
309C1R2	?	1843	
309C1R3	?	1742	

1. COMPANY: SOUTHDOWN

2. STATE: KY

3. CITY: KOSMOSDALE EPA KYD024111981 REGION: 4

4. EP ID: 317 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 220
Surface Area (ft2): 10362
Refractory Type: ?
Burner Type: ?
Precalciner: N
Preheater: Y

Chamber Type: SINGLE

Manufacturer: ALLIS CHALMERS
Diameter (ft): 15
Length to Diameter: 14
Volume (ft3): 38858
Bypass: N
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
317C1R1	?	2827	
317C1R2	?	2777	
317C1R3	?	2852	
317C2R1	?	2685	
317C2R2	?	2740	
317C2R3	?	2747	

2. STATE: OH

3. CITY: FAIRBORN EPA OHD981195779 REGION: 5

4. EP ID: 315 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 220
Surface Area (ft2): 9330
Refractory Type: ?
Burner Type: NOZZEL
Precalciner: N
Preheater: Y

Chamber Type: SINGLE
Manufacturer: FULLER
Diameter (ft): 13
Length to Diameter: 16
Volume (ft3): 31490
Bypass: Y
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
315C1R1	?	2858	
315C1R2	?	2812	
315C1R3	?	2812	
315C2R1	?	2646	
315C2R2	?	2842	
315C2R3	?	2721	

2. STATE: TN

3. CITY: KNOXVILLE EPA TND106203375 REGION: 4

4. EP ID: 316 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. Combustor Type: DRY KILN

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 165
Surface Area (ft2): 6217
Refractory Type: ?
Burner Type: ?
Precalciner: Y
Preheater: Y

Chamber Type: SINGLE
Manufacturer: ?
Diameter (ft): 12
Length to Diameter: 13
Volume (ft3): 18651
Bypass: Y
Dust Recycle: Y

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
316C1R1	?	2978	
316C1R2	?	3117	
316C1R3	?	3047	
316C2R1	?	3219	
316C2R2	?	3019	
316C2R3	?	2892	

1. COMPANY: TEXAS INDUSTRIES

2. STATE: TX

3. CITY: MIDLOTHIAN EPA TXD007349327 REGION: 6

4. EP ID: 318 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. Combustor Type: WET KILN

SECTION 3: KILN DESIGN AND OPERATING INFORMATION

Chamber Specific Design Information

Chamber Name: KILN
# of Devices: 1
Length (ft): 462
Surface Area (ft2): 17191
Refractory Type: BRICK
Burner Type: ?
Precalciner: N
Preheater: N

Chamber Type: SINGLE
Manufacturer: TRAYLOR ENGINEERS
Diameter (ft): 11
Length to Diameter: 39
Volume (ft3): 50894
Bypass: N
Dust Recycle: ?

Comment:

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
318NODATA		0	

SECTION 4a: ELECTROSTATIC PRECIPITATOR DESIGN AND OPERATING INFORMATION

1. COMPANY: ASH GROVE CEMENT COMPANY

2. STATE: AR

3. CITY: FOREMAN EPA ID: ARD981512270 REGION: 6

4. EP ID: 228 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 0
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 454
Wire to Plate (in): 0
Resistivity (Ohm-cm): 1e+9
Electrode Spec.:
Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
228C1R1	449	0	98
228C1R2	453	0	97
228C1R3	434	0	92
228C2R1	500	0	58
228C2R2	485	0	60
228C2R3	506	0	58
228C3R1	473	0	60
228C3R2	453	0	63
228C3R3	453	0	62
228C4R1	380	0	71.2
228C4R2	376	0	71.4
228C4R3	388	0	69.1

*At ESP temperature

4. EP ID: 403 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 4
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 523
Wire to Plate (in): 0
Resistivity (Ohm-cm): 1e+9
Electrode Spec.:
Gas Conditioning: NONE

Comment: 2 CHAMBERS IN PARALLEL

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
403C1R1	487	0	25.4
403C1R2	495	0	28.2
403C1R3	503	0	20.2
403C1R4	490	0	16.6

403C2R1	423	0	24.8
403C2R2	363	0	25.2
403C2R3	392	0	25.9
403C2R4	368	0	26.1

*At ESP temperature

4. EP ID: 404 DEVICE NAME: KILN NO. 3 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 4
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 580
Wire to Plate (in): 0
Resistivity (Ohm-cm): 1e+9
Electrode Spec.:
Gas Conditioning: NONE

Comment: 2 CHAMBER IN PARALLEL

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
404C1R1	487	0	104.5
404C1R2	474	0	107.3
404C1R3	474	0	107.5
404C1R4	514	0	104.1
404C1R5	524	0	92.1
404C1R6	519	0	94.3
404C2R1	388	0	107.5
404C2R2	435	0	105.5
404C2R3	376	0	115.3
404C2R4	404	0	112.4

*At ESP temperature

2. STATE: KS

3. CITY: CHANUTE EPA ID: KSD031203318 REGION: 7

4. EP ID: 401 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 4
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 243
Wire to Plate (in): 0
Resistivity (Ohm-cm): 9e+11
Electrode Spec.: WIRE
Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)

401C1R1	422	0	32
401C1R2	439	0	30.2
401C1R3	435	0	27.6
401C1R4	448	0	24.8
401C2R1	397	0	41.8
401C2R2	382	0	39.1
401C2R3	368	0	47
401C2R4	393	0	36.2
401C3R1	368	0	46.5
401C3R2	383	0	45.9
401C3R3	387	0	45.7
401C4R1	296	0	50.9
401C4R2	292	0	51.2
401C4R3	299	0	50.9
401C4R4	298	0	50.6
401C5R1	398	0	41.2
401C5R2	362	0	41.7
401C5R3	350	0	40.7
401C5R4	352	0	40.7

*At ESP temperature

4. EP ID: 402 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 4
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 227
Wire to Plate (in): 0
Resistivity (Ohm-cm): 9e+11
Electrode Spec.: WIRE
Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
402C1R1	484	0	46.4
402C1R2	412	0	50.6
402C1R3	425	0	38.7
402C1R4	412	0	48.2
402C3R1	269	0	65.4
402C3R2	276	0	54.9
402C3R3	281	0	59.1
402C3R4	280	0	57.6
402C4R1	332	0	37.4
402C4R2	368	0	57.9
402C4R3	353	0	58.7
402C4R4	349	0	56.2
402C5R2	320	0	54.3
402C5R3	305	0	56.4
402C5R4	282	0	54.5

*At ESP temperature

2. STATE: NE

3. CITY: LOUISVILLE EPA ID: NED007260672 REGION: 7

4. EP ID: 405 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: DRY KILN (SEMI) Location: 1
# of Devices: 1
Manufacturer: KOPPERS Configuration: DRY
Plate Area (ft2): 0 Rapping Mechanism: VIBRATORS
Number of Fields: 4 Rapping Frequency (cpm): 0
Controller: SCA (ft2/kacfm): 465
Wire to Plate (in): 0 Resistivity (Ohm-cm): 0e+0
Electrode Spec.: WIRE Gas Conditioning: NONE

Comment: 2 CHAMBERS, 4 FILED PER CHAMBER

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
405C1R1	271	0	18.3
405C1R2	243	0	20.5
405C1R3	258	0	22.1
405C1R4	249	0	26.3
405C1R5	262	0	23.6
405C2R1	278	0	35.3
405C2R2	273	0	20.1
405C2R3	269	0	23.3
405C2R4	257	0	27.9
405C2R5	263	0	27.1
405C2R6	262	0	30.6

*At ESP temperature

4. EP ID: 406 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: DRY KILN Location: 1
# of Devices: 1
Manufacturer: HUMBOLT-WEDAG Configuration: DRY
Plate Area (ft2): 0 Rapping Mechanism: MECHANICAL
Number of Fields: 4 Rapping Frequency (cpm): 0
Controller: SCA (ft2/kacfm): 339
Wire to Plate (in): 0 Resistivity (Ohm-cm): 0e+0
Electrode Spec.: Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
406C1R1	356	0	54.9
406C1R2	355	0	52.7
406C1R3	356	0	52.5
406C1R4	356	0	54
406C1R5	350	0	60.1
406C1R6	350	0	59.7
406C1R7	350	0	59.3
406C1R8	350	0	58.8
406C2R1	351	0	76.3

406C2R2	351	0	76.2
406C2R3	326	0	68
406C2R4	325	0	67.9

*At ESP temperature

1. COMPANY: CONTINENTAL CEMENT COMPANY

2. STATE: MO

3. CITY: HANNIBAL EPA ID: MOD054018288 REGION: 7

4. EP ID: 319 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN Location: 1
# of Devices: 1
Manufacturer: AMERICAN AIR FILTER Configuration: DRY
Plate Area (ft2): 0 Rapping Mechanism: MECHANICAL, VIBRATOR
Number of Fields: 4 Rapping Frequency (cpm): 0
Controller: SCA (ft2/kacfm): 0
Wire to Plate (in): 0 Resistivity (Ohm-cm): 0e+0
Electrode Spec.: BARBED TUBE Gas Conditioning:

Comment: DUAL STAGE, TUBULAR DESIGN, 75 KV/FIELD

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
319C5	443	0	0
319C6R1	502	0	0
319C6R2	540	0	0
319C6R3	540	0	0
319C7R1	469	0	0
319C7R2	480	0	0
319C8	494	0	0

*At ESP temperature

1. COMPANY: ESSROC CORPORATION

2. STATE: IN

3. CITY: LOGANSPORT EPA ID: IND005081542 REGION: 5

4. EP ID: 300 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: RESEARCH COTTRELL
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 10
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 365
Wire to Plate (in): 0
Resistivity (Ohm-cm): 1e+9
Electrode Spec.:
Gas Conditioning: NONE

Comment: 2 CHAMBERS

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
300C1R1	496	0	31.6
300C1R2	504	0	31.7
300C1R3	492	0	39.8
300C1R4	517	0	42.4
300C2R1	606	0	44.7
300C2R2	605	0	34.2
300C2R3	607	0	40.5
300C2R4	614	0	39.7

*At ESP temperature

1. COMPANY: HOLNAM INC.

2. STATE: MO

3. CITY: CLARKSVILLE EPA ID: MOD029729688 REGION: 7

4. EP ID: 204 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: HOLNAM
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism: VIBRATORS/RAPPERS
Number of Fields: 18
Rapping Frequency (cpm): 0
Controller: ?
SCA (ft2/kacfm): 350
Wire to Plate (in): 0
Resistivity (Ohm-cm): 4e+10
Electrode Spec.: ?
Gas Conditioning: NONE

Comment: 4 ESPS IN SERIES

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
204C1R1	599	0	707
204C1R2	599	0	707
204C1R3	599	0	707
204C2R1	597	0	732
204C2R2	597	0	732
204C2R3	597	0	732

*At ESP temperature

2. STATE: MS

3. CITY: ARTESIA EPA ID: MSD077655876 REGION: 4

4. EP ID: 203 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN Location: 1
# of Devices: 1
Manufacturer: WESTERN PRECIP. Configuration: DRY
Plate Area (ft2): 0 Rapping Mechanism:
Number of Fields: 4 Rapping Frequency (cpm): 0
Controller: SCA (ft2/kacfm): 216
Wire to Plate (in): 0 Resistivity (Ohm-cm): 1e+10
Electrode Spec.: Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
203C1R1	355	0	140
203C1R2	422	0	142
203C1R3	373	0	141

*At ESP temperature

2. STATE: SC

3. CITY: HOLLY HILL EPA ID: SCD003368891 REGION: 4

4. EP ID: 205 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN Location: 1
# of Devices: 1
Manufacturer: WALTHER, INC. Configuration: DRY
Plate Area (ft2): 100096 Rapping Mechanism: MECHANICAL
Number of Fields: 2 Rapping Frequency (cpm): 0
Controller: AUTOMATIC SCA (ft2/kacfm): 570
Wire to Plate (in): 5.5 Resistivity (Ohm-cm): 0e+0
Electrode Spec.: Gas Conditioning: NONE

Comment: 52 KVDC & 1800 MADC DESIGN; 2.6 FT/S VELOCITY; 12.3 SECONDS RESIDENCE.

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
205C1R1	0	354	33
205C1R2	0	341	33
205C1R3	0	353	33
205C2R1	0	325	28
205C2R2	0	351	28
205C2R3	0	342	28
205C3R1	0	331	0
205C3R2	0	328	0
205C3R3	0	345	0
205C4R1	0	316	0
205C4R2	0	348	0
205C4R3	0	335	0

*At ESP temperature

4. EP ID: 206 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: WALTHER, INC.
Configuration: DRY
Plate Area (ft2): 100096
Rapping Mechanism: MECHANICAL
Number of Fields: 4
Rapping Frequency (cpm): 0
Controller: AUTOMATIC
SCA (ft2/kacfm): 580
Wire to Plate (in): 5.5
Resistivity (Ohm-cm): 0e+0
Electrode Spec.:
Gas Conditioning: NONE

Comment: ESP IN PARALLEL, FULL WAVE TYPE, 4-FIELDS AND 2 FIELDS

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
206C1R1	0	506	30
206C1R2	0	504	30
206C1R3	0	502	30
206C2R1	0	639	0
206C2R2	0	638	0
206C2R3	0	639	0
206C3R1	0	520	0
206C3R2	0	518	0
206C3R3	0	536	0
206C4R1	0	531	0
206C4R2	0	539	0

*At ESP temperature

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: WALTHER, INC.
Configuration: DRY
Plate Area (ft2): 100096
Rapping Mechanism: MECHANICAL
Number of Fields: 2
Rapping Frequency (cpm): 0
Controller: AUTOMATIC
SCA (ft2/kacfm): 583
Wire to Plate (in): 5.5
Resistivity (Ohm-cm): 0e+0
Electrode Spec.:
Gas Conditioning: NONE

Comment: ESP IN PARALLEL, 2 FIELDS (WILL BE UPGRADED TO 4 FIELD)

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
206C1R1	0	506	270
206C1R2	0	504	270
206C1R3	0	502	270
206C2R1	0	639	0
206C2R2	0	638	0
206C2R3	0	639	0
206C3R1	0	520	0
206C3R2	0	518	0
206C3R3	0	536	0
206C4R1	0	531	0
206C4R2	0	539	0

*At ESP temperature

SECTION 4a: ELECTROSTATIC PRECIPITATOR DESIGN AND OPERATING INFORMATION

1. COMPANY: KEYSTONE CEMENT COMPANY

2. STATE: PA

3. CITY: BATH EPA ID: PAD002389559 REGION: 3

4. EP ID: 207 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: MC/ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 2
# of Devices: 1
Manufacturer: ?
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 2
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 0
Wire to Plate (in): 0
Resistivity (Ohm-cm): 0e+0
Electrode Spec.:
Gas Conditioning:

Comment: 2 PARALLEL ESP

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
207C1R1	423	0	23
207C1R2	418	0	27
207C1R3	417	0	26
207C1R4	416	0	22
207C2R1	422	0	23
207C2R2	410	0	23
207C2R3	415	0	23
207C2R4	403	0	19
207C2R5	393	0	21
207C2R6	407	0	23

*At ESP temperature

4. EP ID: 208 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 4
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 0
Wire to Plate (in): 0
Resistivity (Ohm-cm): 0e+0
Electrode Spec.:
Gas Conditioning:

Comment: 2 PARALLEL ESP

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
208C1R1	417	0	58
208C1R2	416	0	52
208C1R3	419	0	71
208C1R4	386	0	81
208C2R1	407	0	68
208C2R2	410	0	90

208C2R3	401	0	81
208C2R4	401	0	83
208C2R5	407	0	89
208C2R6	412	0	85

*At ESP temperature

1. COMPANY: LAFARGE

2. STATE: AL

3. CITY: DEMOPOLIS EPA ID: ALD067119966 REGION: 4

4. EP ID: 321 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: DRY KILN-MAIN Location: 1
# of Devices: 2
Manufacturer: ? Configuration: ?
Plate Area (ft2): 75400 Rapping Mechanism: MECHANICAL
Number of Fields: 3 Rapping Frequency (cpm): 0
Controller: SCA (ft2/kacfm): 820
Wire to Plate (in): 0 Resistivity (Ohm-cm): 0e+0
Electrode Spec.: Gas Conditioning: WATER

Comment: EAST ESP, IN PARALLEL

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
321C1R1	270	416	73
321C1R2	220	430	52
321C1R3	240	425	64
321C1R4	229	417	122
321C1R5	243	416	65
321C1R6	243	406	77

*At ESP temperature

Design Information

Controls Emissions from: DRY KILN-MAIN Location: 1
# of Devices: 2
Manufacturer: ? Configuration: ?
Plate Area (ft2): 75400 Rapping Mechanism: MECHANICAL
Number of Fields: 3 Rapping Frequency (cpm): 0
Controller: SCA (ft2/kacfm): 820
Wire to Plate (in): 0 Resistivity (Ohm-cm): 0e+0
Electrode Spec.: Gas Conditioning: WATER

Comment: WEST ESP, IN PARALLEL

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
321C1R1	269	416	77
321C1R2	220	430	58
321C1R3	239	426	70
321C1R4	226	419	116
321C1R5	243	416	71
321C1R6	241	407	76

*At ESP temperature

Design Information

Controls Emissions from: DRY KILN-BYPASS
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: ?
Plate Area (ft2): 41000
Rapping Mechanism: MECHANICAL
Number of Fields: 3
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 0
Wire to Plate (in): 0
Resistivity (Ohm-cm): 0e+0
Electrode Spec.:
Gas Conditioning:

Comment: ESP ON BYPASS

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
321C1R1	441	647	30
321C1R2	445	669	24
321C1R3	436	674	19
321C1R4	445	589	14
321C1R5	440	680	18
321C1R6	439	617	16

*At ESP temperature

2. STATE: KS

3. CITY: FREDONIA EPA ID: KSD007148034 REGION: 7

4. EP ID: 322 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: ?
Plate Area (ft2): 0
Rapping Mechanism: VIBRATORY RAPPERS
Number of Fields: 4
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 370
Wire to Plate (in): 0
Resistivity (Ohm-cm): 0e+0
Electrode Spec.:
Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
322C1R1	533	0	5
322C1R2	536	0	15
322C1R3	529	0	16
322C1R4	550	0	32
322C1R5	542	0	29
322C1R6	537	0	28

*At ESP temperature

4. EP ID: 323 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
# of Devices: 1
Manufacturer: ?
Plate Area (ft2): 0
Number of Fields: 3
Controller:
Wire to Plate (in): 0
Electrode Spec.:

Location: 1
Configuration: ?
Rapping Mechanism:
Rapping Frequency (cpm): 0
SCA (ft2/kacfm): 238
Resistivity (Ohm-cm): 0e+0
Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
323C1R1	470	0	38
323C1R2	481	0	38
323C1R3	511	0	78
323C1R4	496	0	60
323C1R5	500	0	64
323C1R6	487	0	39

*At ESP temperature

2. STATE: OH

3. CITY: PAULDING EPA ID: OHD005048947 REGION: 5

4. EP ID: 302 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
# of Devices: 1
Manufacturer: ?
Plate Area (ft2): 0
Number of Fields: 4
Controller:
Wire to Plate (in): 4.5
Electrode Spec.: WIRE

Location: 1
Configuration: DRY
Rapping Mechanism:
Rapping Frequency (cpm): 0
SCA (ft2/kacfm): 245
Resistivity (Ohm-cm): 0e+0
Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
302C1R1	421	0	126
302C1R2	408	0	127
302C1R3	429	0	118
302C1R4	445	0	116
302C1R5	429	0	114
302C1R6	432	0	117

*At ESP temperature

1. COMPANY: LONE STAR INDUSTRIES, INC.

2. STATE: IN

3. CITY: GREENCASTLE EPA ID: IND006419212 REGION: 5

4. EP ID: 304 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
# of Devices: 1
Location: 1
Manufacturer: BUELL CORPORATION
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 10
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 0
Wire to Plate (in): 0
Resistivity (Ohm-cm): 0e+0
Electrode Spec.:
Gas Conditioning:

Comment: 2 CHAMBERS

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
304C1	0	0	60
304C2	0	0	60
304C3	0	0	60
304C4	0	0	60

*At ESP temperature

1. COMPANY: MEDUSA CEMENT COMPANY

2. STATE: PA

3. CITY: WAMPUM EPA ID: PAD083965897 REGION: 3

4. EP ID: 305 DEVICE NAME: KILN NO. 1,2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: DRY KILN-KILN 2
# of Devices: 2
Location: 1
Manufacturer: RES.COTTRELL/KOPPERS
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism:
Number of Fields: 5
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 342
Wire to Plate (in): 0
Resistivity (Ohm-cm): 7e+10
Electrode Spec.:
Gas Conditioning: NONE

Comment: 2 ESP IN SERIES: 2 FIELDS AND 3 FIELDS

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
305C1R1	711	0	49.8
305C1R2	712	0	46.8
305C1R3	701	0	57.2
305C2R1	709	0	63.5
305C2R2	707	0	59.7
305C2R3	708	0	59.8
305C3R1	726	0	87
305C3R2	726	0	118
305C3R3	762	0	101

*At ESP temperature

Design Information

Controls Emissions from: DRY KILN-KILN 1 Location: 1
# of Devices: 2
Manufacturer: RES.COTTRELL/KOPPERS Configuration: DRY
Plate Area (ft2): 0 Rapping Mechanism:
Number of Fields: 5 Rapping Frequency (cpm): 0
Controller: SCA (ft2/kacfm): 342
Wire to Plate (in): 0 Resistivity (Ohm-cm): 8e+10
Electrode Spec.: Gas Conditioning: NONE

Comment: 2 ESP IN SERIES: 2 FIELDS AND 3 FIELDS

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
305C2R1	713	0	49
305C2R2	712	0	46.4
305C2R3	711	0	50.1
305C3R1	744	0	107
305C3R2	738	0	149
305C3R3	750	0	138

*At ESP temperature

4. EP ID: 335 DEVICE NAME: KILN NO. 3 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: DRY KILN Location: 1
# of Devices: 1
Manufacturer: BUELL Configuration: DRY
Plate Area (ft2): 0 Rapping Mechanism:
Number of Fields: 3 Rapping Frequency (cpm): 0
Controller: SCA (ft2/kacfm): 420
Wire to Plate (in): 0 Resistivity (Ohm-cm): 9e+10
Electrode Spec.: Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
335C1R1	718	0	19.7
335C1R2	718	0	22.8
335C1R3	718	0	0

*At ESP temperature

1. COMPANY: NORTH TEXAS CEMENT COMPANY

2. STATE: TX

3. CITY: MIDLOTHIAN EPA ID: TXD007926496 REGION: 6

4. EP ID: 308 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
# of Devices: 1
Manufacturer: ?
Plate Area (ft2): 0
Number of Fields: 4
Controller:
Wire to Plate (in): 0
Electrode Spec.:

Location: 1
Configuration: DRY
Rapping Mechanism:
Rapping Frequency (cpm): 0
SCA (ft2/kacfm): 858
Resistivity (Ohm-cm): 1e+12
Gas Conditioning: NONE

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
308C1R1	441	0	231.7
308C1R2	439	0	227.4
308C1R3	449	0	223

*At ESP temperature

1. COMPANY: RIVER CEMENT

2. STATE: MO

3. CITY: FESTUS EPA ID: MOD050232560 REGION: 7

4. EP ID: 309 DEVICE NAME: KILN NO. 1,2 SYSTEM TYPE: CEMENT KILN APC SYS: MC/ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: DRY KILN
# of Devices: 2
Manufacturer: WEST. PRECIPITATION
Plate Area (ft2): 0
Number of Fields: 4
Controller:
Wire to Plate (in): 0
Electrode Spec.:

Location: 2
Configuration: DRY
Rapping Mechanism: ELEC. VIBRATORS
Rapping Frequency (cpm): 0
SCA (ft2/kacfm): 0
Resistivity (Ohm-cm): 0e+0
Gas Conditioning:

Comment: NEW ESP IN SERIES, SPLIT CHAMBERS

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
309C1R1	638	0	0
309C1R2	638	0	0
309C1R3	639	0	0

*At ESP temperature

Design Information

Controls Emissions from: DRY KILN
Location: 2
# of Devices: 2
Manufacturer: ENVIR. ELEMENTS CORP
Configuration: DRY
Plate Area (ft2): 0
Rapping Mechanism: ELECTRO MECHANICAL
Number of Fields: 3
Rapping Frequency (cpm): 0
Controller:
SCA (ft2/kacfm): 0
Wire to Plate (in): 0
Resistivity (Ohm-cm): 0e+0
Electrode Spec.:
Gas Conditioning:

Comment: OLDER ESP IN SERIES

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
309C1R1	642	0	0
309C1R2	643	0	0
309C1R3	649	0	0

*At ESP temperature

1. COMPANY: TEXAS INDUSTRIES

2. STATE: TX

3. CITY: MIDLOTHIAN EPA ID: TXD007349327 REGION: 6

4. EP ID: 318 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: ESP

5. APC Device Type: ESP

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: WEST. PRECIPITATOR
Configuration: DRY
Plate Area (ft2): 69984
Rapping Mechanism: ELEC. HAMMER
Number of Fields: 6
Rapping Frequency (cpm): 0
Controller: AUTOMATIC
SCA (ft2/kacfm): 0
Wire to Plate (in): 4.5
Resistivity (Ohm-cm): 0e+0
Electrode Spec.: 0.106 INCH DIA. WIRE
Gas Conditioning:

Comment:

Operating Information

6. Run ID	Temp (F)	SCA (ft2/kacfm)*	Power (KVA)
318C1R1	434	0	935
318C1R2	431	0	96
318C1R3	408	0	96.4
318C2R1	418	440	79.5
318C2R2	414	438	82.5
318C2R3	412	423	98.8
318C3R1	0	0	0
318C3R2	0	0	0
318C3R3	0	0	0

*At ESP temperature

SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

1. COMPANY: ESSROC CORPORATION

2. STATE: PR

3. CITY: DORADO EPA PRD980526115 REGION: 2

4. EP ID: 301 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: DRY KILN-BYPASS
Location: 1
# of Devices: 1
Manufacturer: ?
Configuration: ?
Number of Comparts: 0
Cloth Area (ft2): 11312
Number of Bags: 80
Induced:
Fabric Type:
Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:
Comment: ALKALI BYPASS BAGHOUSE

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
301C1R1	202	2.7	1.59
301C1R2	202	3	1.56
301C1R3	202	2.8	1.56
301C2R1	433	2.9	2.1
301C2R2	439	2.8	2.05
301C2R3	428	2.8	2
301C3R1	202	1.6	1.59
301C3R2	202	1.7	1.58
301C3R3	202	2.1	1.64

Design Information

Controls Emissions from: DRY KILN-MAIN 3
Location: 1
# of Devices: 1
Manufacturer: FULLER
Configuration: REVERSE FLOW
Number of Comparts: 16
Cloth Area (ft2): 143232
Number of Bags: 1536
Induced: INDUCED
Fabric Type:
Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:
Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
301C1R1	244	2.9	1.5
301C1R2	209	3.5	1.33
301C1R3	200	3.9	1.61
301C2R1	434	3.3	1.51
301C2R2	431	3.1	1.52
301C2R3	439	3.3	1.73
301C3R1	186	2.1	1.21
301C3R2	179	1.7	1.44
301C3R3	182	2.3	2.03

SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

Design Information

Controls Emissions from: DRY KILN-MAIN 2
Location: 1
# of Devices: 1
Manufacturer: WHEELABRATOR
Configuration: REVERSE FLOW
Number of Comparts: 22
Cloth Area (ft2): 170016
Number of Bags: 12144
Induced: INDUCED
Fabric Type:
Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:
Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
301C1R1	244	11.6	1.17
301C1R2	209	11.5	1.11
301C1R3	200	13.1	1.17
301C2R1	434	10.8	1.27
301C2R2	431	10.4	1.31
301C2R3	439	10.7	1.33
301C3R1	186	16	0.91
301C3R2	179	16.3	0.75
301C3R3	182	14.6	0.83

1. COMPANY: GIANT CEMENT COMPANY

2. STATE: SC

3. CITY: HARLEYVILLE EPA SCD003351699 REGION: 4

4. EP ID: 200 DEVICE NAME: KILN NO. 4 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: FULLER
Configuration: REVERSE FLOW
Number of Comparts: 0
Cloth Area (ft2): 0
Number of Bags: 0
Induced:
Fabric Type: GRPHITEIMPREG FIBRGL
Air to Cloth Ratio (ft/min): 4
Maintenance Schedule: 48 MINUTES
Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
200C1R1	478	4.3	0
200C1R2	446	4.3	0
200C1R3	556	5.2	0
200C1R4	491	3.6	0

4. EP ID: 201 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. APC Device Type: FF

SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

Design Information

Controls Emissions from: WET KILN
Location: 1
# of Devices: 1
Manufacturer: FULLER/TRAYLOR
Configuration: ?
Number of Comparts: 0
Cloth Area (ft2): 0
Number of Bags: 0
Induced:
Fabric Type:
Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:
Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
201C1R1	480	4.1	0
201C1R2	518	4.9	0
201C1R3	468	4.3	0
201C1R4	509	4.3	0

1. COMPANY: HEARTLAND CEMENT COMPANY

2. STATE: KS

3. CITY: INDEPENDENCE EPA KSD980739999 REGION: 7

4. EP ID: 202 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: DRY KILN
Location: 1
# of Devices: 1
Manufacturer: AMERICAN BRIDGE CO.
Configuration: PULSE JET
Number of Comparts: 21
Cloth Area (ft2): 142610
Number of Bags: 6132
Induced: INDUCED
Fabric Type: FIBERGLASS
Air to Cloth Ratio (ft/min): 4
Maintenance Schedule: 2 MINUTES
Comment: AIR/CLOTH 4:01 ACFM/FT2

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
202C1R1	0	6	2.02
202C1R2	0	5.7	1.82
202C1R3	0	6	1.71
202C2R1	435	4.7	1.83
202C2R2	430	4.9	1.78
202C2R3	443	5.6	1.94

1. COMPANY: LAFARGE

2. STATE: MI

3. CITY: ALPENA EPA MID005379607 REGION: 5

4. EP ID: 320 DEVICE NAME: KILN NO. 23 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: DRY KILN
Location: 1
# of Devices: 2
Manufacturer: WHEELBRATER-FRYE
Configuration: REVERSE FLOW
Number of Comparts: 10
Cloth Area (ft2): 126450
Number of Bags: 1500
Induced: INDUCED
Fabric Type: FIBERGLASS W/ SI
Air to Cloth Ratio (ft/min): 2.25
Maintenance Schedule:
Comment: SEPARATE BAGHOUSES FOR KILNS 22 AND 23

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
320C1R1	493	2	0
320C1R2	488	2	0
320C1R3	478	2	0
320C1R4	480	1.9	0
320C1R5	484	1.9	0
320C1R6	486	2.2	0

1. COMPANY: LONE STAR INDUSTRIES, INC.

2. STATE: MO

3. CITY: CAPE GIRARDEAU EPA MO981127319 REGION: 7

4. EP ID: 303 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: QC/FF

5. APC Device Type: FF

Design Information

Controls Emissions from: DRY KILN
Location: 2
# of Devices: 1
Manufacturer: BUELL CORPORATION
Configuration: REVERSE FLOW
Number of Comparts: 32
Cloth Area (ft2): 173632
Number of Bags: 1792
Induced: INDUCED
Fabric Type:
Air to Cloth Ratio (ft/min): 2.01
Maintenance Schedule:
Comment: 3 MODULES

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
303C1R1	204	12.2	2.16
303C1R2	210	12.1	2.24
303C1R3	208	11.6	2.18
303C1R4	200	11.5	2.18
303C1R5	200	11.8	2.22
303C1R6	198	11.4	2.2
303C2R1	225	11.6	2.3
303C2R2	224	11.4	2.36
303C2R3	220	11.5	2.33
303C3R1	292	10.5	2.3
303C3R2	306	10.3	2.4
303C3R3	309	10.3	2.35

Design Information

Controls Emissions from: DRY KILN
# of Devices: 1
Manufacturer:
Number of Comparts: 6
Number of Bags: 120
Fabric Type:
Maintenance Schedule:
Comment: BYPASS

Location: 1
Configuration: REVERSE FLOW
Cloth Area (ft2): 0
Induced: INDUCED
Air to Cloth Ratio (ft/min): 0

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
303NODATA	0	0	0

1. COMPANY: NATIONAL CEMENT PLANT

2. STATE: CA

3. CITY: LEBEC EPA CAD982444887 REGION: 9

4. EP ID: 306 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: MC/FF

5. APC Device Type: FF

Design Information

Controls Emissions from: DRY KILN
# of Devices: 1
Manufacturer: DRACO DIV. OF FULLER
Number of Comparts: 14
Number of Bags: 0
Fabric Type: FIBERGLASS
Maintenance Schedule: 1 TO 14 MINUTES
Comment: LOCATED AFTER MULTI-CYCLONE

Location: 2
Configuration: REVERSE FLOW
Cloth Area (ft2): 0
Induced: PRESSURIZED
Air to Cloth Ratio (ft/min): 1.75

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
306C1R1	547	6.2	0
306C1R2	548	6.3	0
306C1R3	547	6.2	0
306C1R4	547	6.2	0
306C1R5	548	6.3	0
306C1R6	547	6.2	0

1. COMPANY: SOUTHDOWN

2. STATE: KY

3. CITY: KOSMOSDALE EPA KYD024111981 REGION: 4

4. EP ID: 317 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. APC Device Type: FF

SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

Design Information

Controls Emissions from: DRY KILN-BYPASS
Location: 1
# of Devices: 2
Manufacturer: ?
Configuration: REVERSE FLOW
Number of Comparts: 18
Cloth Area (ft2): 134782
Number of Bags: 2520
Induced: INDUCED
Fabric Type: FIBERGLASS
Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:
Comment: BYPASS BAGHOUSE

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
317C1R1	519	3.6	1.61
317C1R2	515	4.2	1.73
317C1R3	519	4.5	1.78
317C2R1	505	4	1.57
317C2R2	505	3.9	1.59
317C2R3	505	3.8	1.53

Design Information

Controls Emissions from: DRY KILN-MAIN
Location: 1
# of Devices: 2
Manufacturer: ?
Configuration: REVERSE FLOW
Number of Comparts: 16
Cloth Area (ft2): 181356
Number of Bags: 3936
Induced: INDUCED
Fabric Type: FIBERGLASS
Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:
Comment: MAIN BAGHOUSE

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
317C1R1	322	6.3	1.28
317C1R2	251	6.4	1.26
317C1R3	224	6.4	1.24
317C2R1	218	5.4	1.1
317C2R2	235	5.2	1.15
317C2R3	230	4.8	1.09
317C3R1	0	0	1.5
317C3R2	0	0	1.54
317C3R3	0	0	1.52

2. STATE: OH

3. CITY: FAIRBORN EPA OHD981195779 REGION: 5

4. EP ID: 315 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. APC Device Type: FF

SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

Design Information

Controls Emissions from: DRY KILN-MAIN
Location: 1
# of Devices: 1
Manufacturer: FULLER
Configuration: REVERSE FLOW
Number of Comparts: 14
Cloth Area (ft2): 125300
Number of Bags: 1344
Induced: INDUCED
Fabric Type: FIBERGLASS
Air to Cloth Ratio (ft/min): 1.86
Maintenance Schedule:
Comment: MAIN BAGHOUSE

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
315C1R1	379	4	1.71
315C1R2	318	3.8	1.62
315C1R3	327	3.7	1.63
315C2R1	417	4.2	1.84
315C2R2	397	4.2	1.72
315C2R3	397	3.9	1.75

Design Information

Controls Emissions from: DRY KILN-BYPASS
Location: 1
# of Devices: 1
Manufacturer: FULLER
Configuration: REVERSE FLOW
Number of Comparts: 10
Cloth Area (ft2): 60000
Number of Bags: 2900
Induced: INDUCED
Fabric Type: FIBERGLASS
Air to Cloth Ratio (ft/min): 2.19
Maintenance Schedule:
Comment: BYPASS BAGHOUSE

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
315C1R1	547	8.2	2.13
315C1R2	553	7.9	2.05
315C1R3	553	7.7	2.14
315C2R1	582	7.2	2.17
315C2R2	547	8.3	2.12
315C2R3	571	6.8	2.29

2. STATE: TN

3. CITY: KNOXVILLE EPA TND106203375 REGION: 4

4. EP ID: 316 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: FF

5. APC Device Type: FF

SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

Design Information

Controls Emissions from: DRY KILN-MAIN
Location: 1
# of Devices: 2
Manufacturer: ?
Configuration: REVERSE FLOW
Number of Comparts: 16
Cloth Area (ft2): 181356
Number of Bags: 3936
Induced: INDUCED
Fabric Type: FIBERGLASS
Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:
Comment: MAIN BAGHOUSE

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
316C1R1	524	3.4	1.24
316C1R2	507	3.1	1.19
316C1R3	490	3.2	1.16
316C2R1	499	3.3	1.15
316C2R2	489	3.3	1.2
316C2R3	490	3.4	1.25

Design Information

Controls Emissions from: DRY KILN-BYPASS
Location: 1
# of Devices: 2
Manufacturer: ?
Configuration: REVERSE FLOW
Number of Comparts: 8
Cloth Area (ft2): 57503
Number of Bags: 1248
Induced: INDUCED
Fabric Type: FIBERGLASS
Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:
Comment: BYPASS BAGHOUSE

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Air to Cloth (ft/min)
316C1R1	515	2.1	1.23
316C1R2	514	2.4	1.2
316C1R3	491	2.5	1.16
316C2R1	516	1.8	1.17
316C2R2	508	2	1.22
316C2R3	487	1.5	1.24

SECTION 4d: VENTURI SCRUBBER DESIGN AND OPERATING INFORMATION

1. COMPANY: LONE STAR INDUSTRIES, INC.

2. STATE: MO

3. CITY: CAPE GIRARDEAU EPA ID: MO981127319 REGION: 7

4. EP ID: 303 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: QC/FF

5. APC Device Type: VS

Design Information

Controls Emissions from: DRY KILN Location: 1

# of Devices: 1

Manufacturer: Configuration:

Reagent: SODIUM HYDROXIDE

Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Liquid to Gas (gal/kacf)	PH	Reagent to Gas (lb/kacf)
303NODATA	0	0	0	0	0

SECTION 4f: OTHER CONTROL DESIGN AND OPERATING INFORMATION

1. COMPANY: KEYSTONE CEMENT COMPANY

2. STATE: PA

3. CITY: BATH EPA ID: PAD002389559 REGION: 3

4. EP ID: 207 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYS: MC/ESP

5. APC Device Type: MC

Design Information

Controls Emissions from: WET KILN Location: 1

# of Devices: 1

Manufacturer: ? Configuration: ?

Comment: LOCATED BEFORE ESP

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	PH	KVA
207NODATA	0	0	0	0

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ASH GROVE CEMENT COMPANY
2. STATE: AR
3. CITY: FOREMAN EPA ID: ARD981512270 REGION: 6
4. EP ID: 228 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
228C1R1	Multiple				
228C1R2	Multiple				
228C1R3	Multiple				
228C2R1	Multiple				
228C2R2	Multiple				
228C2R3	Multiple				
228C3R1	Dioxin & Furan	71336 dscfm			
228C3R2	Dioxin & Furan	73666 dscfm			
228C3R3	Dioxin & Furan	71370 dscfm			
228C4R1	Multiple	64830 dscfm	365	7.3	36.9
228C4R2	Multiple	64671 dscfm	36	8	37.5
228C4R3	Multiple	67714 dscfm	368	7.3	36.8

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ASH GROVE CEMENT COMPANY
2. STATE: AR
3. CITY: FOREMAN EPA ID: ARD981512270 REGION: 6
4. EP ID: 403 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
403C1R1	Multiple	66044 dscfm	474	5.5	39.9
403C1R2	Multiple	66712 dscfm	486	5.5	37.4
403C1R3	Multiple	65851 dscfm	495	4.9	38.1
403C1R4	Multiple	68092 dscfm	467	6.4	37.5
403C2R1	Multiple	67075 dscfm	386	8	39.8
403C2R2	Multiple	64821 dscfm	369	8	40
403C2R3	Multiple	64261 dscfm	380	6.8	42.8
403C2R4	Multiple	65936 dscfm	368	7.7	43.4

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ASH GROVE CEMENT COMPANY
2. STATE: AR
3. CITY: FOREMAN EPA ID: ARD981512270 REGION: 6
4. EP ID: 404 DEVICE NAME: KILN NO. 3 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
404C1R1	Multiple	90495 dscfm	510	5.2	38
404C1R2	Multiple	87815 dscfm	500	6	39.5
404C1R3	Multiple	88936 dscfm	494	5.7	39.6
404C1R4	Multiple	94386 dscfm	517	6.3	39.5
404C1R5	Multiple	93406 dscfm	533	4	39.2
404C1R6	Multiple	91691 dscfm	522	4	39.9
404C2R1	Multiple	86940 dscfm	402	7.3	41.5
404C2R2	Multiple	96858 dscfm	424	6.5	38.4
404C2R3	Multiple	88880 dscfm	398	6.8	41.5
404C2R4	Multiple	88553 dscfm	406	6.4	40.3

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ASH GROVE CEMENT COMPANY
2. STATE: KS
3. CITY: CHANUTE EPA ID: KSD031203318 REGION: 7
4. EP ID: 401 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
401C1R1	Multiple	79375 dscfm	322	10.8	26.2
401C1R2	Multiple	81764 dscfm	336	10.8	26.5
401C1R3	Multiple	76082 dscfm	333	10.7	26.5
401C1R4	Multiple	78921 dscfm	345	10.7	25.5
401C2R1	Multiple	85044 dscfm	315	10.4	26.9
401C2R2	Multiple	85878 dscfm	299	10.2	28.2
401C2R3	Multiple	74901 dscfm	297	10.2	28.1
401C2R4	Multiple	76514 dscfm	297	10	26.7
401C3R1	Multiple	101332 dscfm	359	12.1	22.9
401C3R2	Multiple	101516 dscfm	264	12.1	23.2
401C3R3	Multiple	190380 dscfm	274	13.7	22
401C4R1	Multiple	85629 dscfm	209	12.8	23.1
401C4R2	Multiple	81983 dscfm	206	13.3	22.6
401C4R3	Multiple	80182 dscfm	203	11.5	22.3
401C4R4	Multiple	81314 dscfm	207	13.2	22.9
401C5R1	Multiple	103671 dscfm	266	11.6	22.9
401C5R2	Multiple	103308 dscfm	255	11.5	22.8
401C5R3	Multiple	102217 dscfm	247	12.9	23
401C5R4	Multiple	99473 dscfm	252	12.7	23.4

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ASH GROVE CEMENT COMPANY
2. STATE: KS
3. CITY: CHANUTE EPA KSD031203318 REGION: 7
4. EP ID: 402 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK-MAIN Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
402C1R1	Multiple	85614 dscfm	349	9.5	26
402C1R2	Multiple	85298 dscfm	336	10.3	26.5
402C1R3	Multiple	85122 dscfm	345	10.6	26.7
402C1R4	Multiple	89921 dscfm	339	10.8	26
402C2R1	Multiple	87848 dscfm	313	10.4	27.6
402C2R2	Multiple	88396 dscfm	288	10.2	28.1
402C2R3	Multiple	83690 dscfm	307	9.6	28.2
402C2R4	Multiple	84440 dscfm	314	12.9	24.3
402C3R1	Multiple	127263 dscfm	274	9.9	31.9
402C3R2	Multiple	123215 dscfm	283	8	33.5
402C3R3	Multiple	122396 dscfm	293	8.1	30.8
402C3R4	Multiple	121892 dscfm	296	8.2	30.5
402C4R1	Multiple	88044 dscfm	300	8.5	25.9
402C4R2	Multiple	85822 dscfm	329	9	26.9
402C4R3	Multiple	86215 dscfm	319	9.1	26.5
402C4R4	Multiple	86601 dscfm	319	10.6	24.3
402C5R1	Particulate	89389 dscfm	306	11	26.6
402C5R2	Particulate	78468 dscfm	296	9.7	27.3
402C5R3	Particulate	90773 dscfm	279	11.3	26.5
402C5R4	Particulate	86603 dscfm	263	14.5	22.4

Additional ID Information

Process Group: WET KILN Location: STACK-BYPASS Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
402C3R1	Multiple	12124 dscfm	471	17	6.2
402C3R2	Multiple	11239 dscfm	400	16	3.9
402C3R3	Multiple	9649 dscfm	390	16	4.8
402C4R1	Multiple	14665 dscfm	363	16	6
402C4R2	Multiple	15276 dscfm	556	16	3.9
402C4R3	Multiple	16033 dscfm	496	16	4.9
402C4R4	Multiple	15422 dscfm	455	16	1.1

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ASH GROVE CEMENT COMPANY
2. STATE: NE
3. CITY: LOUISVILLE EPA ID: NED007260672 REGION: 7
4. EP ID: 405 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN (SEMI) Location: STACK-MAIN Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
405C1R1	Multiple	128686 dscfm	235	15.5	10.7
405C1R2	Multiple	132997 dscfm	222	15.2	10.5
405C1R3	Multiple	129428 dscfm	240	15.7	11.3
405C1R4	Multiple	127904 dscfm	228	15.5	12.3
405C1R5	Multiple	126861 dscfm	241	15.7	11.3
405C2R1	Multiple	119102 dscfm	241	15.6	16.6
405C2R2	Multiple	132903 dscfm	242	15.5	10.9
405C2R3	Multiple	137030 dscfm	243	15.7	10.9
405C2R4	Multiple	140471 dscfm	229	14.8	11.1
405C2R5	Multiple	125965 dscfm	238	15.8	13.4
405C2R6	Multiple	128951 dscfm	242	15.8	13.7

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ASH GROVE CEMENT COMPANY
2. STATE: NE
3. CITY: LOUISVILLE EPA ID: NED007260672 REGION: 7
4. EP ID: 406 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK-MAIN Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
406C1R1	Multiple	98039 dscfm	379	10.5	17.3
406C1R2	Multiple	98576 dscfm	386	9.8	17.2
406C1R3	Multiple	95710 dscfm	379	10.7	17.9
406C1R4	Multiple	95341 dscfm	381	11.1	18.3
406C1R5	Multiple	92952 dscfm	387	10.8	18.2
406C1R6	Multiple	92315 dscfm	385	11.2	18.1
406C1R7	Multiple	87955 dscfm	374	10	17.7
406C1R8	Multiple	89318 dscfm	380	10.7	17.6
406C2R1	Multiple	101012 dscfm	366	9.3	12.6
406C2R2	Multiple	100418 dscfm	366	10.2	14.6
406C2R3	Multiple	115121 dscfm	352	10.8	15.3
406C2R4	Multiple	95542 dscfm	349	10.7	15.1

Additional ID Information

Process Group: DRY KILN Location: STACK-BYPASS Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
406C1R1	THC & CO				
406C1R2	THC & CO				
406C1R3	THC & CO				
406C1R4	THC & CO				
406C1R5	THC & CO				
406C1R6	THC & CO				
406C1R7	THC & CO				
406C1R8	THC & CO				
406C2R1	THC & CO				
406C2R2	THC & CO				
406C2R3	THC & CO				
406C2R4	THC & CO				

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: CONTINENTAL CEMENT COMPANY
2. STATE: MO
3. CITY: HANNIBAL EPA ID: MOD054018288 REGION: 7
4. EP ID: 319 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 150 Stack Diameter (in): 141

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
319B1A1	Dioxin & Furan		465	5.3	33.9
319B1A2	Dioxin & Furan		461	5	33.7
319B1A3	Dioxin & Furan		462	4	34.2
319B1R1	Dioxin & Furan	124600 dscfm	458	5.2	34.1
319B1R2	Dioxin & Furan	121500 dscfm	454	5	33.8
319B1R3	Dioxin & Furan	122500 dscfm	451	6	33.5
319B1R4	Dioxin & Furan	127500 dscfm	467	4.8	33.6
319B1R5	Dioxin & Furan	128100 dscfm	466	5.2	33.4
319B1R6	Dioxin & Furan	134600 dscfm	462	5.1	33.8
319B1R7	Dioxin & Furan	121400 dscfm	462	4.4	33.9
319B1R8	Dioxin & Furan	125300 dscfm	455	6.3	31.7
319B1R9	Dioxin & Furan	127400 dscfm	449	8	32.9
319C1R1	Multiple	132933 dscfm	569	4.7	35.2
319C1R2	Multiple	134400 dscfm	568	4.2	36.6
319C1R3	Multiple	132467 dscfm	568	4.3	35.8
319C2R1	Multiple	133600 dscfm	560	4	34.8
319C2R2	Multiple	129100 dscfm	567	5.6	34.8
319C2R3	Multiple	133500 dscfm	572	4.4	34.6
319C3R1	Multiple	126100 dscfm	548	4.7	35.2
319C3R2	Multiple	118500 dscfm	537	4.3	35.8
319C3R3	Multiple	119200 dscfm	551	4.1	38.9
319C4R1	Multiple	123100 dscfm	584	4.1	35.1
319C4R2	Multiple	122400 dscfm	592	4.6	34.3
319C4R3	Multiple	121500 dscfm	589	4.3	34.6
319C4R4	Multiple	126400 dscfm	586	4.2	34.7
319C4R5	Multiple	133300 dscfm	586	7.2	30.5
319C5	Multiple	95792 dscfm	448	5.9	
319C6R1	Multiple	102867 dscfm	527	3.9	
319C6R2	Multiple	105900 dscfm	557	4.2	
319C6R3	Multiple	122844 dscfm	551	4.1	
319C7R1	Multiple	111195 dscfm	505	4.4	
319C7R2	Multiple	121079 dscfm	517	4.5	
319C8	Halogens				
319C9R1	Dioxin & Furan	119700 dscfm	429	5.1	34.2
319C9R2	Dioxin & Furan	129100 dscfm	421	6.3	33.9
319C9R3	Dioxin & Furan	118800 dscfm	417	5.1	34.2
319C9R4	Dioxin & Furan	125400 dscfm	428	6.5	34.2
319C9R5	Dioxin & Furan	115500 dscfm	433	4.9	34.4
319C9R6	Dioxin & Furan	123700 dscfm	430	5.5	34.1

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ESSROC CORPORATION
2. STATE: IN
3. CITY: LOGANSPORT EPA ID: IND005081542 REGION: 5
4. EP ID: 300 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 204 Stack Diameter (in): 187

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
300C1R1	Multiple	96210 dscfm	301	11.5	19.9
300C1R2	Multiple	85920 dscfm	291	11.9	22.3
300C1R3	Multiple	80670 dscfm	296	12	24
300C1R4	Multiple	81870 dscfm	302	12.2	23.8
300C2R1	Multiple	83772 dscfm	334	11.6	20.4
300C2R2	Multiple	88761 dscfm	328	12.6	23.9
300C2R3	Multiple	89173 dscfm	336	11.9	24.3
300C2R4	Multiple	85692 dscfm	337	12.3	23.7

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: ESSROC CORPORATION
2. STATE: PR
3. CITY: DORADO EPA ID: PRD980526115 REGION: 2
4. EP ID: 301 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK-MAIN 2 Phase: GAS

Stack Information

Stack Height (ft): 56 Stack Diameter (in): 108

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
301C1R1	Multiple	134773 dscfm	267	16.2	9.4
301C1R2	Multiple	133074 dscfm	234	15.3	10.8
301C1R3	Multiple	142237 dscfm	229	15.5	10.7
301C2R1	Multiple	117901 dscfm	395	14.7	7.8
301C2R2	Multiple	122959 dscfm	360	14.9	6.8
301C2R3	Multiple	122655 dscfm	370	14.9	7.4
301C3R1	Multiple	112311 dscfm	218	16.9	11
301C3R2	Multiple	92539 dscfm	208	16.8	11.8
301C3R3	Multiple	105039 dscfm	206	17.5	9.6

Additional ID Information

Process Group: DRY KILN Location: STACK-MAIN 3 Phase: GAS

Stack Information

Stack Height (ft): 67 Stack Diameter (in): 20

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
301C1R1	Multiple	145000 dscfm	236	10.1	10.1
301C1R2	Multiple	137000 dscfm	210	16.1	9
301C1R3	Multiple	166000 dscfm	205	16	9.8
301C2R1	Multiple	121000 dscfm	345	16	5
301C2R2	Multiple	120000 dscfm	324	14.6	7.1
301C2R3	Multiple	136000 dscfm	347	16	6.6
301C3R1	Multiple	128000 dscfm	212	17.1	9.6
301C3R2	Multiple	155000 dscfm	205	16.2	9
301C3R3	Multiple	217000 dscfm	230	17.6	9

Additional ID Information

Process Group: DRY KILN Location: STACK-BYPASS Phase: GAS

Stack Information

Stack Height (ft): 76 Stack Diameter (in): 26

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
301C1R1	Multiple	13776 dscfm	394	20.2	3.7
301C1R2	Multiple	13610 dscfm	391	19.7	3.4
301C1R3	Multiple	13734 dscfm	385	19.6	2.7
301C2R1	Multiple	13489 dscfm	384	20.3	3.8
301C2R2	Multiple	13052 dscfm	392	19	4.2
301C2R3	Multiple	12939 dscfm	390	19.2	3.7
301C3R1	Multiple	13899 dscfm	405	20	3
301C3R2	Multiple	13758 dscfm	398	20	3.6
301C3R3	Multiple	14239 dscfm	386	18.8	4

1. COMPANY: GIANT CEMENT COMPANY
2. STATE: SC
3. CITY: HARLEYVILLE EPA ID: SCD003351699 REGION: 4
4. EP ID: 200 DEVICE NAME: KILN NO. 4 SYSTEM TYPE: CEMENT KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 175 Stack Diameter (in): 120

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
200C1R1	Multiple	55517 dscfm	412	10.2	28
200C1R2	Multiple	52538 dscfm	392	10.2	29.4
200C1R3	Multiple	51233 dscfm	460	10.6	29.2
200C1R4	Multiple	47773 dscfm	478	10.4	29

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: GIANT CEMENT COMPANY
2. STATE: SC
3. CITY: HARLEYVILLE EPA ID: SCD003351699 REGION: 4
4. EP ID: 201 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: CEMENT KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
201C1R1	Multiple	55851 dscfm	406	10.5	30
201C1R2	Multiple	61994 dscfm	441	10.1	28.7
201C1R3	Multiple	55813 dscfm	390	10.5	30.5
201C1R4	Multiple	58230 dscfm	466	10.2	28.7

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: HEARTLAND CEMENT COMPANY
2. STATE: KS
3. CITY: INDEPENDENCE EPA KSD980739999 REGION: 7
4. EP ID: 202 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 234 Stack Diameter (in): 168

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
202C1R1	Multiple	164124 dscfm	229	14.3	7
202C1R2	Multiple	147553 dscfm	235	14.4	7.2
202C1R3	Multiple	139352 dscfm	240	13.9	6.6
202C2R1	Multiple	145729 dscfm	317	14.5	5.5
202C2R2	Multiple	141623 dscfm	314	14.3	6
202C2R3	Multiple	152959 dscfm	321	14.4	5.5

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: HOLNAM INC.
2. STATE: MO
3. CITY: CLARKSVILLE EPA MOD029729688 REGION: 7
4. EP ID: 204 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 250 Stack Diameter (in): 252

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
204C1R1	Multiple	248530 dscfm	506	5.5	32
204C1R2	Multiple	248922 dscfm	509	7.5	31.5
204C1R3	Multiple	275829 dscfm	509	9.6	31.4
204C2R1	Multiple	251746 dscfm	493	4.4	34.9
204C2R2	Multiple	255408 dscfm	501	4.4	33
204C2R3	Multiple	258855 dscfm	508	4.4	33.4
204C3R1	Multiple	272032 dscfm	509	4.9	31.5
204C3R2	Multiple	272563 dscfm	523	4.3	31.3
204C3R3	Multiple	268058 dscfm	521	5.6	31.2
204C4R1	Multiple	243596 dscfm	498	4.1	34.1
204C4R2	Multiple	240474 dscfm	496	4.2	34.3
204C4R3	Multiple	220730 dscfm	491	4.8	34.6

1. COMPANY: HOLNAM INC.
2. STATE: MS
3. CITY: ARTESIA EPA ID: MSD077655876 REGION: 4
4. EP ID: 203 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 200 Stack Diameter (in): 139

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
203C1R1		108068 dscfm	495	8.4	33.1
203C1R2	Multiple	105639 dscfm	536	7.4	31.9
203C1R3	Multiple	105710 dscfm	528	8.3	31.6

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: HOLNAM INC.
2. STATE: SC
3. CITY: HOLLY HILL EPA ID: SCD003368891 REGION: 4
4. EP ID: 205 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 150 Stack Diameter (in): 11

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
205C1	THC & CO	114390 dscfm	362	9.3	27.3
205C1R1	Multiple	111567 dscfm	363	9.5	28.2
205C1R2	Multiple	117630 dscfm	360	9.3	27
205C1R3	Multiple	113973 dscfm	364	9.2	26.8
205C2	THC & CO	117056 dscfm	357	10.2	27.8
205C2R1	SVOC	123689 dscfm	354	10	26.8
205C2R2	SVOC	112074 dscfm	360	10.6	28.4
205C2R3	SVOC	115405 dscfm	358	9.9	28.2
205C3	THC & CO	121550 dscfm	366	10.3	26.1
205C3R1	Dioxin & Furan	123424 dscfm	363	10.3	25.8
205C3R2	Dioxin & Furan	123553 dscfm	370	10.3	26.4
205C3R3	Dioxin & Furan	117674 dscfm	366	10.3	26.1
205C4	THC & CO	119343 dscfm	369	10.1	27.8
205C4R1	Dioxin & Furan	124788 dscfm	362	10.1	28.4
205C4R2	Dioxin & Furan	115563 dscfm	371	10.1	26.9
205C4R3	Dioxin & Furan	117678 dscfm	373	10.1	28.2

1. COMPANY: HOLNAM INC.
2. STATE: SC
3. CITY: HOLLY HILL EPA ID: SCD003368891 REGION: 4
4. EP ID: 206 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 160 Stack Diameter (in): 158

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
206C1	THC & CO	145099 dscfm	497	7.4	33.6
206C1R1	Multiple	146069 dscfm	499	7.4	32.9
206C1R2	Multiple	144377 dscfm	505	7.4	33.9
206C1R3	Multiple	144851 dscfm	488	7.4	34
206C2	THC & CO	114893 dscfm	398	7.7	33.3
206C2R1	SVOC	114799 dscfm	400	7.7	33.4
206C2R2	SVOC	114755 dscfm	399	7.7	33.4
206C2R3	SVOC	115124 dscfm	396	7.7	33.1
206C3	THC & CO	138547 dscfm	493	7.1	33.9
206C3R1	Dioxin & Furan	139432 dscfm	488	7	34.1
206C3R2	Dioxin & Furan	140035 dscfm	495	7	34.1
206C3R3	Dioxin & Furan	136173 dscfm	495	7.2	33.6
206C4	THC & CO	138132 dscfm	418	7	32.8
206C4R1	Dioxin & Furan	139647 dscfm	420	7	32.6
206C4R2	Dioxin & Furan	136617 dscfm	415	7	33.1

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: KEYSTONE CEMENT COMPANY
2. STATE: PA
3. CITY: BATH EPA PAD002389559 REGION: 3
4. EP ID: 207 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: MC/ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
207C1R1	Multiple	44725 dscfm	331	12.9	25.5
207C1R2	Multiple	45975 dscfm	324	12	25.2
207C1R3	Multiple	47000 dscfm	326	12.5	24.8
207C1R4	Multiple	45400 dscfm	327	12.5	23.7
207C2R1	Multiple	45633 dscfm	328	12.1	24.9
207C2R2	Multiple	46400 dscfm	323	11.8	24.3
207C2R3	Multiple	45933 dscfm	324	11.8	25.1
207C2R4	Multiple	44633 dscfm	321	12.3	25.9
207C2R5	Multiple	46267 dscfm	309	11.2	25.8
207C2R6	Multiple	46833 dscfm	320	11.1	24.5

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: KEYSTONE CEMENT COMPANY
2. STATE: PA
3. CITY: BATH EPA PAD002389559 REGION: 3
4. EP ID: 208 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 190 Stack Diameter (in): 151

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
208C1R1	Multiple	154425 dscfm	326	12	27.2
208C1R2	Multiple	149800 dscfm	337	11.4	27.3
208C1R3	Multiple	151975 dscfm	337	11.6	26.9
208C1R4	Multiple	150550 dscfm	341	11.5	26.6
208C2R1	Multiple	143667 dscfm	320	11.9	27
208C2R2	Multiple	147033 dscfm	331	11.5	27
208C2R3	Multiple	147500 dscfm	330	12.2	27.3
208C2R4	Multiple	150967 dscfm	327	11.6	27.3
208C2R5	Multiple	152067 dscfm	330	11.4	27.1
208C2R6	Multiple	152133 dscfm	330	11.8	25.8

1. COMPANY: LAFARGE
2. STATE: AL
3. CITY: DEMOPOLIS EPA ID: ALD067119966 REGION: 4
4. EP ID: 321 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK-MAIN Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
321C1R1	Halogens	229060 dscfm	258	17	12.7
321C1R2	Halogens	235698 dscfm	227	17	13.4
321C1R3	Halogens	232668 dscfm	239	17	13
321C1R4	Multiple	243000 dscfm	225	17	12.3
321C1R5	Multiple	239000 dscfm	239	17	12.1
321C1R6	Multiple	248000 dscfm	241	17	11.1

Additional ID Information

Process Group: DRY KILN Location: STACK-BYPASS Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
321C1R1	Halogens	31275 dscfm	386	18	15.7
321C1R2	Halogens	30359 dscfm	386	17	15
321C1R3	Halogens	30448 dscfm	372	16.5	15
321C1R4	Multiple	35010 dscfm	387	16.5	13.7
321C1R5	Multiple	30521 dscfm	381	17	13.7
321C1R6	Multiple	33900 dscfm	383	17	13.1

1. COMPANY: LAFARGE
2. STATE: KS
3. CITY: FREDONIA EPA ID: KSD007148034 REGION: 7
4. EP ID: 322 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 176 Stack Diameter (in): 95

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
322C1R1	Multiple	41209 dscfm	443	5.5	36.8
322C1R2	Multiple	42533 dscfm	445	5.5	35.2
322C1R3	Multiple	41976 dscfm	439	5.5	35.3
322C1R4	Multiple	43064 dscfm	461	5.5	33.2
322C1R5	Multiple	43168 dscfm	456	5.5	33.8
322C1R6	Multiple	43118 dscfm	453	5.5	33.9

1. COMPANY: LAFARGE
2. STATE: KS
3. CITY: FREDONIA EPA KSD007148034 REGION: 7
4. EP ID: 323 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 250 Stack Diameter (in): 99

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
323C1R1	Multiple	53679 dscfm	443	5.6	38.1
323C1R2	Multiple	50397 dscfm	447	5.6	37.8
323C1R3	Multiple	52255 dscfm	473	5.6	34.9
323C1R4	Multiple	52805 dscfm	462	5.6	36.8
323C1R5	Multiple	52815 dscfm	467	5.6	37.1
323C1R6	Multiple	52609 dscfm	449	5.6	37.1
323C1R7	Multiple	50753 dscfm	447	5.6	37.1

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: LAFARGE
2. STATE: MI
3. CITY: ALPENA EPA ID: MID005379607 REGION: 5
4. EP ID: 320 DEVICE NAME: KILN NO. 23 SYSTEM TYPE: CEMENT KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 292 Stack Diameter (in): 288

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
320C1R1	Multiple	336000 dscfm		11	
320C1R2	Multiple	305000 dscfm		11	
320C1R3	Multiple	337000 dscfm		11	
320C1R4	Multiple	295000 dscfm		11	
320C1R5	Multiple	325000 dscfm		11	
320C1R6	Multiple	342000 dscfm		11	

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: LAFARGE
2. STATE: OH
3. CITY: PAULDING EPA ID: OHD005048947 REGION: 5
4. EP ID: 302 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 250 Stack Diameter (in): 11

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
302C1R1	Halogens	51449 dscfm	370	7	36.8
302C1R2	Halogens	52270 dscfm	376	7	37.7
302C1R3	Halogens	52150 dscfm	384	7	37.5
302C1R4	Multiple	49274 dscfm	395	7	37.5
302C1R5	Multiple	50500 dscfm	389	7	37.6
302C1R6	Multiple	50242 dscfm	392	7.5	38.1

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: LONE STAR INDUSTRIES, INC.
2. STATE: IN
3. CITY: GREENCASTLE EPA IND006419212 REGION: 5
4. EP ID: 304 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 225 Stack Diameter (in): 138

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
304C1R1	Multiple	123701 dscfm	450	5.2	33.5
304C1R2	Multiple	121979 dscfm	446	5.4	33.6
304C1R3	Multiple	125730 dscfm	451	5.4	34
304C2R1	Multiple	136339 dscfm	446	5.4	29.8
304C2R2	Multiple	140255 dscfm	446	5.3	27.8
304C2R3	Multiple	125963 dscfm	447	5.6	36
304C3R1	Multiple	121695 dscfm	415	5	32
304C3R2	Multiple	117723 dscfm	419	4.6	31.4
304C3R3	Multiple	116648 dscfm	416	5.3	31.5
304C4R1	Multiple	103106 dscfm	383	4.9	33.4
304C4R2	Multiple	119991 dscfm	387	4.8	28.4
304C4R3	Multiple	107362 dscfm	384	5.3	34.1

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: LONE STAR INDUSTRIES, INC.
2. STATE: MO
3. CITY: CAPE GIRARDEAU EPA MO981127319 REGION: 7
4. EP ID: 303 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: QC/FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK-MAIN Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in): 132

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
303C1R1	Multiple	260724 dscfm	240	10.2	12.7
303C1R2	Multiple	261101 dscfm	238	10.3	14.8
303C1R3	Multiple	257569 dscfm	239	10.6	13.9
303C1R4	Multiple	260019 dscfm	238		14
303C1R5	Multiple	265017 dscfm	237		13.9
303C1R6	Multiple	266550 dscfm	235		13.1
303C2R1	Multiple	262015 dscfm	246		14.8
303C2R2	Multiple	269655 dscfm	246		14.6
303C2R3	Multiple	267690 dscfm	242		14.6
303C3R1	Multiple	234563 dscfm	310	9.5	16.2
303C3R2	Multiple	242293 dscfm	310	9.3	15.6
303C3R3	Multiple	236285 dscfm	310	9.2	15.6

1. COMPANY: MEDUSA CEMENT COMPANY
2. STATE: PA
3. CITY: WAMPUM EPA PAD083965897 REGION: 3
4. EP ID: 305 DEVICE NAME: KILN NO. 1,2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 265 Stack Diameter (in): 144

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
305C1R1	Multiple	95207 dscfm	351	14.6	6.5
305C1R2	Multiple	90532 dscfm	341	13.9	6.9
305C1R3	Multiple	91417 dscfm	308	14.8	7.1
305C2R1	Particulate	138347 dscfm	403	13	8.7
305C2R2	Particulate	132066 dscfm	409	12.4	9.3
305C2R3	Particulate	135616 dscfm	405	11.8	9.1
305C3R1	Multiple	105030 dscfm	459	11.2	10.1
305C3R2	Multiple	102331 dscfm	465	11.2	10.1
305C3R3	Multiple	101033 dscfm	475	11.2	9.6

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: MEDUSA CEMENT COMPANY
2. STATE: PA
3. CITY: WAMPUM EPA ID: PAD083965897 REGION: 3
4. EP ID: 335 DEVICE NAME: KILN NO. 3 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 100 Stack Diameter (in): 132

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
335C1R1	Multiple	44909 dscfm	542	6.2	19.3
335C1R2	Multiple	41221 dscfm	544	5.5	18.9
335C1R3	Multiple	41892 dscfm	546	5.3	19.2

1. COMPANY: NATIONAL CEMENT PLANT
2. STATE: CA
3. CITY: LEBEC EPA CAD982444887 REGION: 9
4. EP ID: 306 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: MC/FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
306C1R1	Multiple	142554 dscfm		10.6	16.3
306C1R2	Multiple	143117 dscfm		10.5	15.9
306C1R3	Multiple	145915 dscfm		10.1	17.4
306C1R4	Multiple	140894 dscfm	403	10.6	16.2
306C1R5	Multiple	146073 dscfm	396	10.5	17.3
306C1R6	Multiple	141954 dscfm	401	10.2	17.8

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: NORTH TEXAS CEMENT COMPANY
2. STATE: TX
3. CITY: MIDLOTHIAN EPA ID: TXD007926496 REGION: 6
4. EP ID: 308 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
308C1R1	Multiple	67580 dscfm	360	8.4	37.1
308C1R2	Multiple	65225 dscfm	357	8.5	36.8
308C1R3	Multiple	63502 dscfm	362	8.4	38.6

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: RIVER CEMENT
2. STATE: MO
3. CITY: FESTUS EPA MOD050232560 REGION: 7
4. EP ID: 309 DEVICE NAME: KILN NO. 1,2 SYSTEM TYPE: CEMENT KILN APC SYSTEM: MC/ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 250 Stack Diameter (in): 212

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
309C1R1	Multiple	336445 dscfm	489	10.3	20.4
309C1R2	Multiple	320263 dscfm	500	10	19.2
309C1R3	Multiple	311734 dscfm	500	10	20.4
309C1R4	Dioxin & Furan	296083 dscfm	479	10.1	19.1
309C1R5	Dioxin & Furan	291431 dscfm	482	10.1	19
309C1R6	Dioxin & Furan	296916 dscfm	479	10.1	18.3
309C2R1	Multiple	286321 dscfm	488	10	17.7
309C2R2	Multiple	279996 dscfm	486	10.1	18.6
309C2R3	Multiple	291417 dscfm	496	10.1	16.1
309C3R1	Multiple	305156 dscfm	487	10	17.8
309C3R2	Multiple	291751 dscfm	486	10.1	17.2
309C3R3	Multiple	315547 dscfm	490	11	17.6

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOUTHDOWN
2. STATE: KY
3. CITY: KOSMOSDALE EPA ID: KYD024111981 REGION: 4
4. EP ID: 317 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in): 120

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
317C1R1	Multiple	262990 dscfm	348	14.4	4
317C1R2	Multiple	282493 dscfm	328	15.4	4.8
317C1R3	Multiple	287675 dscfm	327	15.2	5.1
317C2R1	Multiple	258581 dscfm	312	14.9	4.8
317C2R2	Multiple	258468 dscfm	322	14.6	6.1
317C2R3	Multiple	247724 dscfm	315	14.6	6.2
317C3R1	Multiple	272244 dscfm	311	15.1	6.2
317C3R2	Multiple	283772 dscfm	317	15.4	4.9
317C3R3	Multiple	278726 dscfm	310	15.3	5.6

1. COMPANY: SOUTHDOWN
2. STATE: OH
3. CITY: FAIRBORN EPA ID: OHD981195779 REGION: 5
4. EP ID: 315 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK-MAIN Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
315C1	Dioxin & Furan				
315C1R1	Multiple	116642 dscfm	273	10.8	13.4
315C1R2	Multiple	119278 dscfm	296	11.1	13.4
315C1R3	Multiple	118744 dscfm	275	11	13.2
315C2	Dioxin & Furan				
315C2R1	Multiple	120445 dscfm	278	10.3	13.3
315C2R2	Multiple	113885 dscfm	299	10.4	14
315C2R3	Multiple	117932 dscfm	283	10.1	12.5

Additional ID Information

Process Group: DRY KILN Location: STACK-BYPASS Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
315C1	Dioxin & Furan				
315C1R1	Multiple	62241 dscfm	344	17.4	6.9
315C1R2	Multiple	59982 dscfm	350	18	6.6
315C1R3	Multiple	62933 dscfm	347	17.9	6
315C2	Dioxin & Furan				
315C2R1	Multiple	61146 dscfm	343	17.9	7.3
315C2R2	Multiple	61734 dscfm	339	18.1	7.5
315C2R3	Multiple	65249 dscfm	355	17.7	7.3
315C3R1	THC & CO				
315C3R2	THC & CO				
315C3R3	THC & CO				

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOUTHDOWN
2. STATE: TN
3. CITY: KNOXVILLE EPA TND106203375 REGION: 4
4. EP ID: 316 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: DRY KILN Location: STACK-MAIN Phase: GAS

Stack Information

Stack Height (ft): 125 Stack Diameter (in): 119

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
316C1R1	Multiple	142926 dscfm	434	12.4	
316C1R2	Multiple	140013 dscfm	424	12	
316C1R3	Multiple	138039 dscfm	407	12	
316C2R1	Multiple	136165 dscfm	411	11.7	
316C2R2	Multiple	143461 dscfm	401	12.6	
316C2R3	Multiple	148858 dscfm	390	12.4	

Additional ID Information

Process Group: DRY KILN Location: STACK-BYPASS Phase: GAS

Stack Information

Stack Height (ft): Stack Diameter (in):

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
316C1R1	THC & CO				
316C1R2	THC & CO				
316C1R3	THC & CO				
316C2R1	THC & CO				
316C2R2	THC & CO				
316C2R3	THC & CO				

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: TEXAS INDUSTRIES
2. STATE: TX
3. CITY: MIDLOTHIAN EPA TXD007349327 REGION: 6
4. EP ID: 318 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: CEMENT KILN APC SYSTEM: ESP

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: WET KILN Location: STACK Phase: GAS

Stack Information

Stack Height (ft): 200 Stack Diameter (in): 96

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
318C1R1	Multiple	60075 dscfm			
318C1R2	Multiple	60161 dscfm			
318C1R3	Multiple	59410 dscfm			
318C2R1	Multiple	58586 dscfm	371	6.3	38.6
318C2R2	Multiple	59003 dscfm	364	7	38.8
318C2R3	Multiple	61228 dscfm	360	7	38.9
318C3R1	THC & CO	59882 dscfm			
318C3R2	THC & CO	59882 dscfm			
318C3R3	THC & CO	59882 dscfm			