

PENALTY COMPUTATION WORKSHEET

Violator's Name: Southdown, Inc., dba Florida Mining and Materials

Violator's Facility: Portland Cement Plant, U. S. 98, Northwest of Brooksville

Department Staff Responsible for Penalty Computation: Tom Ellison

Date: 6/5/96

Part I - Class B (no penalty) Determination

Rationale: N/A

Part II - Class A Penalty Determination

	Violation Type	Potential for Harm	Extent of Deviation	Matrix Amount	Multiday Amount	Adj.	Total
1.	<u>Kiln #1 - excess emissions</u>	<u>Major</u>	<u>Major</u>	<u>\$10,000</u>	<u>\$65,538</u>	<u>0</u>	<u>\$75,538</u>
2.	<u>Kiln #1 - failure to maintain pollution control device</u>	<u>Major</u>	<u>Moderate</u>	<u>7,000</u>	<u>0</u>	<u>0</u>	<u>7,000</u>
3.	<u>Clinker Cooler #1 - excess emissions</u>	<u>Moderate</u>	<u>Major</u>	<u>4,250</u>	<u>27,472</u>	<u>0</u>	<u>31,712</u>
4.	<u>Clinker Cooler #1 - failure to maintain pollution control device</u>	<u>Moderate</u>	<u>Moderate</u>	<u>2,600</u>	<u>0</u>	<u>0</u>	<u>2,600</u>
5.	<u>Clinker Cooler #1 - stack test failure</u>	<u>Moderate</u>	<u>Major</u>	<u>3,900</u>	<u>10,725</u>	<u>0</u>	<u>14,625</u>
6.	<u>Kiln #2 - excess emissions</u>	<u>Moderate</u>	<u>Major</u>	<u>4,250</u>	<u>29,150</u>	<u>0</u>	<u>33,400</u>
7.	<u>Kiln #2 - failure to maintain pollution control device</u>	<u>Moderate</u>	<u>Moderate</u>	<u>2,600</u>	<u>0</u>	<u>0</u>	<u>2,600</u>
8.	<u>Kiln #2 - stack test failure</u>	<u>Moderate</u>	<u>Moderate</u>	<u>2,600</u>	<u>2,600</u>	<u>0</u>	<u>5,200</u>
9.	<u>Clinker Cooler #2 - excess emissions</u>	<u>Moderate</u>	<u>Major</u>	<u>3,900</u>	<u>9,325</u>	<u>0</u>	<u>13,225</u>
10.	<u>Clinker Cooler #2 - failure to maintain pollution control device</u>	<u>Moderate</u>	<u>Moderate</u>	<u>2,600</u>	<u>0</u>	<u>0</u>	<u>2,600</u>
11.	<u>Finish Mill #1 - failure to conduct VE test in 1995</u>	<u>Moderate</u>	<u>Major</u>	<u>3,900</u>	<u>0</u>	<u>0</u>	<u>3,900</u>
12.	<u>Finish Mill #2 - failure to conduct VE test in 1995</u>	<u>Moderate</u>	<u>Major</u>	<u>3,900</u>	<u>0</u>	<u>0</u>	<u>3,900</u>

Total Penalties for all Violations: \$196,300

Part III - Multiday Penalties and Adjustments

Adjustments	Dollar Amount
Good faith/Lack of good faith prior to discovery: Justification: _____	_____
Good faith/Lack of good faith after discovery: Justification: _____	_____
History of Non-compliance: Justification: _____	_____
Economic Benefit of Non-Compliance Justification: _____	_____
Ability to Pay: Justification: _____	_____
Total Adjustments	_____

Multiday Penalties	Dollar Amount
Number of days adjustment factor(s) to be applied Justification: _____	_____
Number of days matrix amount is to be multiplied: _____ Justification: <u>V1, V3, V6 and V9: For multiday calculations on the excess emissions violations, see attachments 2-5.</u>	<u>See below</u>
<u>V5. IAW penalty guidance, Clinker Cooler #1 assumed to be operating out of compliance from date of original test to date final test demonstrated compliance: 11 additional days x 25 % of matrix amount x \$2,600 = \$10,725.</u>	
<u>V8. IAW penalty guidance, Kiln #2 assumed to be operating out of compliance from date of original test to date final test demonstrated compliance: 4 additional days x 25 % of matrix amount x \$2,600 = \$2,600.</u>	

**ATTACHMENT 1
EXPANDED PENALTY MATRIX CELLS**

Major Extent of Deviation

percent opacity 84 - 100	\$10,000	\$9,500	\$9,000
67 - 83	\$9,500	\$9,000	\$8,500
50 - 66	\$9,000	\$8,500	\$8,000
duration	≥ 361 min.	241 - 360 min.	121 - 240 min.

Moderate Extent of Deviation

percent opacity 45 - 49	\$8,000	\$7,500	\$7,000
40 - 44	\$7,500	\$7,000	\$6,500
35 - 39	\$7,000	\$6,500	\$6,000
duration	≥ 361 min.	241 - 360 min.	121 - 240 min.

Minor Extent of Deviation

percent opacity 30 - 34	\$6,000	\$5,650	\$5,300
25 - 29	\$5,650	\$5,300	\$4,950
21 - 24	\$5,300	\$4,950	\$4,600
duration	≥ 361 min.	241 - 360 min.	121 - 240 min.

MAJOR POTENTIAL FOR HARM

Major Extent of Deviation

percent opacity 80 - 100	\$4,600	\$4,250	\$3,900
60 - 79	\$4,250	\$3,900	\$3,550
40 - 59	\$3,900	\$3,550	\$3,200
duration	≥ 361 min.	241 - 360 min.	121 - 240 min.

Moderate Extent of Deviation

percent opacity 35-39	\$3,200	\$2,900	\$2,600
30 -34	\$2,900	\$2,600	\$2,300
25 - 29	\$2,600	\$2,300	\$2,000
duration	≥ 361 min.	241 - 360 min.	121 - 240 min.

Minor Extent of Deviation

percent opacity 20 - 24	\$2,000	\$1,800	\$1,600
15 - 19	\$1,800	\$1,600	\$1,400
10 - 14	\$1,600	\$1,400	\$1,200
duration	≥ 361 min.	241 - 360 min.	121 - 240 min.

MODERATE POTENTIAL FOR HARM

Attachment 2
 Cement Kiln #1 Excess Emissions
 April 1, 1995 through January 29, 1996

Start Date	Start Time	End Date	End Time	Maximum Opacity, %	Extent of Deviation	Excess Emissions, Minutes	Penalty Matrix Amount
4/1/95	1918	4/2/95	1918	48	Moderate	636	\$8,000
4/5/95	1642	4/6/95	0954	56	Major	188	\$8,000
4/7/95	2349	4/8/95	1436	28	Minor	294	\$5,300
4/9/95	2331	4/10/95	2331	48	Moderate	402	\$8,000
4/10/95	2331	4/11/95	1131	29	Minor	168	\$4,950
4/12/95	1449	4/13/95	0413	38	Moderate	144	\$6,000
4/14/95	1449	4/15/95	0849	38	Moderate	690	\$8,000
4/19/95	1838	4/19/95	2144	34	Minor	156	\$5,300
4/20/95	2338	4/21/95	2338	71	Major	1350	\$9,500
4/21/95	2338	4/22/95	1638	85	Major	726	\$10,000
4/24/95	0356	4/24/95	1556	31	Minor	408	\$6,000
7/5/95	0803	7/6/95	0533	25	Minor	138	\$4,950
7/11/95	0943	7/11/95	1513	31	Minor	264	\$5,650
7/16/95	0836	7/16/95	1625	40	Moderate	378	\$7,500
7/28/95	1931	7/29/95	1101	33	Minor	828	\$6,000
7/30/95	0455	7/30/95	0901	25	Minor	150	\$4,950
7/31/95	0819	8/1/95	0819	25	Minor	132	\$4,950
8/1/95	0819	8/1/95	2125	26	Minor	148	\$4,950
9/5/95	1507	9/5/95	2143	24	Minor	306	\$5,300
9/24/95	0730	9/24/95	0730	59	Major	290	\$8,500
9/28/95	0728	9/29/95	0534	28	Minor	342	\$5,300
9/29/95	0746	9/30/95	1728	36	Moderate	156	\$6,000
9/30/95	1604	10/1/95	0646	32	Minor	336	\$5,650
10/1/95	0904	10/2/95	0922	27	Minor	384	\$5,650
10/3/95	0904	10/3/95	1752	26	Minor	240	\$4,950
10/12/95	0658	10/12/95	1040	26	Minor	126	\$4,950
10/29/95	1429	10/30/95	1326	30	Minor	324	\$5,650
10/30/95	1450	10/31/95	0256	33	Minor	432	\$6,000
11/7/95	1344	11/7/95	2220	28	Minor	300	\$5,300
11/9/95	1302	11/10/95	0632	27	Minor	420	\$5,650
11/19/95	0621	11/20/95	0621	25	Minor	444	\$5,650
11/20/95	0621	11/20/95	1315	26	Minor	312	\$5,300
12/12/95	0445	12/12/95	1645	36	Moderate	198	\$6,000
12/29/95	0109	12/29/95	0545	28	Minor	210	\$4,950
12/30/95	1603	12/31/95	1109	30	Minor	276	\$5,650
1/2/96	1000	1/3/96	0001	26	Minor	228	\$4,950
1/5/96	0452	1/6/96	0452	40	Moderate	1,044	\$7,500
1/6/96	0452	1/6/96	0852	32	Minor	210	\$5,300
1/9/96	2052	1/10/96	2052	36	Moderate	498	\$7,000
1/15/96	1110	1/16/96	1110	57	Major	318	\$8,500

Southdown, Inc.

Cement Kiln #1 Excess Emissions

Page 2

1/16/96	1110	1/17/96	0328	46	Moderate	306	\$7,500
1/25/96	1440	1/26/96	1304	45	Moderate	156	\$5,300
1/27/96	1810	1/28/96	1810	36	Moderate	228	\$6,000
1/28/96	1810	1/29/96	0834	33	Minor	270	\$5,650

Penalties (excluding Maximum One-Day Penalty) \$262,150

Multiday Penalties (25 % of above total) \$65,538

Maximum One-Day Penalty \$10,000

Total Penalty (Sum of Multiday Penalties plus Maximum One-Day Penalty) \$75,538

The above table excludes periods when the opacity monitor may have been out of alignment due to high stack temperatures resulting from raw mill shutdown or ground out. The table also excludes any periods when opacity readings fell between 20-22 percent during the period from April 1, 1995 to July 13, 1995 when Southdown adjusted the COM zero drift. Maximum opacity readings have also been decremented by 2 percent for this period. The highlighted entry is the violation selected for the maximum one-day penalty.

Attachment 3
 Clinker Cooler #1 Excess Emissions
 April 1, 1995 through January 18, 1996

Start Date	Start Time	End Date	End Time	Maximum Opacity, %	Extent of Deviation	Excess Emissions, Minutes	Penalty Matrix Amount
4/1/95	0000	4/1/95	2400	20	Minor	204	\$1,600
4/2/95	1323	4/3/95	1159	16	Minor	210	\$1,400
4/3/95	1405	4/4/95	0547	16	Minor	300	\$1,600
4/10/95	0823	4/11/95	0817	17	Minor	210	\$1,400
4/11/95	1217	4/12/95	1141	16	Minor	288	\$1,600
4/12/95	1541	4/13/95	0617	14	Minor	132	\$1,200
4/16/95	1023	4/16/95	1805	14	Minor	168	\$1,200
4/17/95	1259	4/18/95	1129	12	Minor	174	\$1,200
4/21/95	0741	4/22/95	0647	18	Minor	378	\$1,800
4/22/95	1017	4/23/95	0941	16	Minor	204	\$1,400
4/27/95	0547	4/28/95	0347	16	Minor	126	\$1,400
4/28/95	1752	4/29/95	1505	14	Minor	156	\$1,200
4/29/95	1923	4/30/95	1815	26	Moderate	438	\$2,600
5/1/95	0304	5/2/95	0146	17	Minor	162	\$1,400
5/2/95	0840	5/2/95	1422	15	Minor	192	\$1,400
5/9/95	1228	5/10/95	0828	18	Minor	150	\$1,400
5/10/95	1604	5/11/95	1510	16	Minor	246	\$1,600
5/13/95	2234	5/14/95	1458	16	Minor	174	\$1,400
5/14/95	2310	5/15/95	1134	24	Minor	156	\$1,600
5/16/95	1410	5/17/95	1410	25	Moderate	450	\$2,600
5/17/95	1410	5/18/95	1410	56	Major	930	\$3,900
5/18/95	1410	5/19/95	1410	66	Major	1158	\$4,250
5/19/95	1410	5/20/95	0316	25	Moderate	150	\$2,000
5/21/95	1458	5/22/95	1428	17	Minor	186	\$1,200
5/22/95	1658	5/23/95	1658	20	Minor	570	\$2,000
5/24/95	0404	5/25/95	0304	46	Major	258	\$3,550
5/25/95	0428	5/26/95	0358	18	Minor	360	\$1,800
5/26/95	0528	5/27/95	0122	16	Minor	336	\$1,600
5/27/95	1116	5/28/95	0222	28	Moderate	676	\$2,600
5/28/95	1352	5/29/95	1046	34	Moderate	324	\$2,600
5/29/95	1922	5/30/95	1246	25	Moderate	240	\$2,000
5/30/95	2139	5/31/95	2045	22	Minor	252	\$1,800
5/31/95	2145	6/1/95	2139	25	Moderate	930	\$2,600
6/1/95	2209	6/2/95	0727	22	Minor	240	\$1,600
6/3/95	0509	6/3/95	2357	24	Minor	546	\$2,000
6/5/95	0751	6/6/95	0751	16	Minor	384	\$1,800
6/6/95	0845	6/7/95	0845	15	Minor	468	\$1,800

Southdown, Inc.
 Clinker Cooler #1 Excess Emissions
 Page 2

Start Date	Start Time	End Date	End Time	Maximum Opacity, %	Extent of Deviation	Excess Emissions, Minutes	Penalty Matrix Amount
6/7/95	1215	6/8/95	0851	17	Minor	426	\$1,800
6/8/95	1627	6/9/95	1503	15	Minor	480	\$1,800
6/9/95	1651	6/10/95	1627	15	Minor	744	\$1,800
6/10/95	1627	6/11/95	1627	24	Minor	708	\$2,000
6/11/95	1827	6/12/95	1827	20	Minor	834	\$2,000
6/13/95	1045	6/14/95	1045	15	Minor	384	\$2,000
6/14/95	1045	6/14/95	2033	23	Minor	528	\$2,000
6/25/95	1121	6/25/95	1357	23	Minor	150	\$1,600
7/4/95	1909	7/5/95	1527	15	Minor	468	\$1,800
7/6/95	1051	7/7/95	1027	15	Minor	366	\$1,800
7/7/95	1103	7/8/95	0527	27	Moderate	186	\$2,000
7/8/95	1257	7/9/95	1232	13	Minor	306	\$1,400
7/10/95	0524	7/11/95	0518	15	Minor	198	\$1,400
7/11/95	0930	7/12/95	0036	18	Minor	150	\$1,200
7/19/95	0906	7/20/95	0724	13	Minor	156	\$1,200
7/20/95	0924	7/20/95	1718	12	Minor	150	\$1,200
7/23/95	0754	7/23/95	1948	15	Minor	192	\$1,400
7/25/95	1854	7/26/95	1624	15	Minor	468	\$1,800
7/27/95	0018	7/27/95	1548	15	Minor	312	\$1,600
7/28/95	0024	7/29/95	0024	18	Minor	216	\$1,200
7/29/95	0024	7/29/95	1548	12	Minor	216	\$1,200
7/31/95	0330	8/1/95	0330	14	Minor	132	\$1,200
8/3/95	1230	8/4/95	0254	14	Minor	252	\$1,400
8/5/95	1700	8/6/95	1700	14	Minor	252	\$1,400
1/5/96	1041	1/6/96	0934	14	Minor	486	\$1,600
1/7/96	2358	1/8/96	2158	17	Minor	180	\$1,400
1/8/96	2358	1/9/96	2252	13	Minor	192	\$1,200
1/17/96	1010	1/18/96	2252	14	Minor	132	\$1,200

Penalties (excluding Maximum One-Day Penalty)	\$109,850
Multiday Penalties (25 % of above total)	\$27,462
Maximum One-Day Penalty	\$4,250
Total Penalty (Sum of Multiday Penalties plus Maximum One-Day Penalty)	\$31,712

The highlighted entry is the violation selected for the maximum one-day penalty.

Attachment 4
 Cement Kiln # 2 Excess Emissions
 April 3, 1995 through January 24, 1996

Start Date	Start Time	End Date	End Time	Maximum Opacity, %	Extent of Deviation	Excess Emissions, Minutes	Penalty Matrix Amount
4/3/95	1135	4/4/95	0904	12	Minor	150	\$1,200
4/6/95	0115	4/7/95	2338	15	Minor	456	\$1,800
4/19/95	1718	4/20/95	1718	33	Moderate	505	\$2,900
4/21/95	1718	4/21/95	2117	18	Minor	239	\$1,400
4/24/95	1315	4/22/95	1315	18	Minor	413	\$1,800
4/25/95	1315	4/25/95	1550	16	Minor	137	\$1,400
4/29/95	0935	4/30/95	0029	16	Minor	684	\$1,800
5/3/95	1815	5/4/95	1725	19	Minor	174	\$1,400
5/8/95	0812	5/8/95	2159	67	Major	204	\$3,550
5/9/95	1805	5/10/95	1805	24	Minor	1069	\$2,000
5/10/95	1805	5/11/95	1805	30	Moderate	1249	\$2,900
5/11/95	1805	5/12/95	1805	32	Moderate	1140	\$2,900
5/12/95	1805	5/12/95	2220	16	Minor	238	\$1,400
5/15/95	1055	5/16/95	1036	18	Minor	144	\$1,400
5/16/95	1106	5/17/95	0606	13	Minor	294	\$1,400
5/17/95	1147	5/18/95	1147	18	Minor	630	\$1,800
5/18/95	1147	5/19/95	1147	34	Moderate	559	\$2,900
5/19/95	1147	5/20/95	1147	17	Minor	575	\$1,800
5/20/95	1147	5/21/95	1147	20	Minor	852	\$2,000
5/21/95	1147	5/22/95	1147	18	Minor	913	\$1,800
5/22/95	1147	5/23/95	0749	13	Minor	159	\$1,200
5/29/95	1509	5/30/95	1239	15	Minor	714	\$1,800
5/30/95	0032	5/31/95	1032	12	Minor	174	\$1,200
6/1/95	0056	6/1/95	2249	14	Minor	342	\$1,400
6/6/95	0940	6/7/95	0909	53	Major	834	\$3,900
6/7/95	1045	6/8/95	0827	13	Minor	390	\$1,600
6/9/95	1144	6/9/95	1137	12	Minor	150	\$1,200
6/10/95	1649	6/11/95	1400	12	Minor	132	\$1,200
6/12/95	0312	6/13/95	2118	22	Minor	528	\$2,000
6/15/95	1234	6/16/95	1103	14	Minor	448	\$1,600
6/18/95	1042	6/19/95	0945	17	Minor	474	\$1,800
6/19/95	1424	6/20/95	1424	15	Minor	1274	\$1,800
6/20/95	1424	6/21/95	1041	16	Minor	1211	\$1,800
6/27/95	1206	6/28/95	0954	12	Minor	150	\$1,200
6/28/95	1441	6/29/95	1441	19	Minor	318	\$1,600
6/29/95	1441	6/30/95	1040	15	Minor	306	\$1,600
7/9/95	1528	7/10/95	1528	15	Minor	141	\$1,400

Southdown, Inc.
 Cement Kiln #2 Excess Emissions
 Page 2

Start Date	Start Time	End Date	End Time	Maximum Opacity, %	Extent of Deviation	Excess Emissions, Minutes	Penalty Matrix Amount
7/10/95	1528	7/11/95	1528	20	Minor	263	\$1,800
7/11/95	1528	7/12/95	1037	16	Minor	376	\$1,800
7/28/95	1948	7/29/95	1535	68	Major	576	\$4,250
8/9/95	1846	8/9/95	2104	14	Minor	138	\$1,200
8/14/95	1300	8/15/95	0754	21	Minor	258	\$1,800
8/26/95	2028	8/27/95	1845	41	Major	1272	\$3,900
8/28/95	0314	8/29/95	0300	70	Major	690	\$4,250
8/29/95	0318	8/29/95	1354	14	Minor	408	\$1,600
9/18/95	1912	9/18/95	2130	26	Moderate	138	\$2,000
10/15/95	1419	10/16/95	0654	12	Minor	228	\$1,400
11/6/95	0542	11/6/95	0742	12	Minor	138	\$1,200
11/8/95	2147	11/9/95	0047	26	Moderate	180	\$2,000
11/27/95	0818	11/28/95	0629	13	Minor	306	\$1,400
12/29/95	2357	12/30/95	1509	15	Minor	336	\$1,600
12/31/95	1015	1/1/96	0356	13	Minor	132	\$1,200
1/1/96	1126	1/2/96	0837	14	Minor	318	\$1,400
1/6/96	1105	1/7/96	0234	13	Minor	330	\$1,400
1/7/96	2322	1/8/96	1457	18	Minor	732	\$1,800
1/9/96	0121	1/9/96	1345	13	Minor	456	\$1,600
1/10/96	2144	1/11/96	0932	62	Major	522	\$4,250
1/12/96	0813	1/13/96	0012	56	Major	366	\$3,900
1/14/96	0511	1/14/96	0735	89	Major	144	\$3,900
1/15/96	0747	1/15/96	2011	13	Minor	180	\$1,200
1/17/96	1657	1/18/96	1521	20	Minor	138	\$1,600
1/23/96	1748	1/24/96	0105	79	Major	360	\$3,550

Penalties (excluding Maximum One-Day Penalty)	\$116,600
Multiday Penalties (25 % of above total)	\$29,150
Maximum One-Day Penalty	\$4,250
Total Penalty (Sum of Multiday Penalties plus Maximum One-Day Penalty)	\$33,400

The above table excludes periods when the opacity monitor may have been out of alignment due to high stack temperatures resulting from raw mill shutdown or ground out. The highlighted entry is the violation selected for the maximum one-day penalty.

Attachment 5
 Clinker Cooler #2 Excess Emissions
 May 20, 1995 through September 27, 1995

Start Date	Start Time	End Date	End Time	Maximum Opacity, %	Extent of Deviation	Excess Emissions, Minutes	Penalty Matrix Amount
5/20/95	0902	5/20/95	1320	12	Minor	204	\$1,200
5/22/95	1554	5/23/95	1535	15	Minor	168	\$1,200
5/23/95	1617	5/24/95	1611	15	Minor	288	\$1,400
5/24/95	1629	5/25/95	1622	14	Minor	408	\$1,600
5/25/95	1758	5/26/95	1758	20	Minor	451	\$2,000
5/26/95	1758	5/27/95	1758	41	Major	145	\$3,200
5/29/95	1255	5/30/95	1043	15	Minor	204	\$1,400
5/30/95	1313	5/31/95	1313	16	Minor	181	\$1,400
5/31/95	1313	6/1/95	1313	15	Minor	259	\$1,600
6/1/95	1313	6/2/95	1313	14	Minor	390	\$1,600
6/2/95	1313	6/3/95	1110	22	Minor	496	\$2,000
6/8/95	1442	6/9/95	1336	15	Minor	168	\$1,400
6/25/95	2219	6/26/95	2054	12	Minor	222	\$1,200
6/29/95	1016	6/30/95	0803	18	Minor	168	\$1,400
7/3/95	1437	7/4/95	1425	24	Minor	228	\$1,600
7/4/95	1431	7/5/95	1431	12	Minor	217	\$1,200
7/5/95	1431	7/5/95	1912	13	Minor	251	\$1,400
8/13/95	1731	8/14/95	1725	12	Minor	150	\$1,200
8/16/95	1841	8/17/95	1711	18	Minor	138	\$1,400
8/18/95	0858	8/18/95	0258	35	Moderate	306	\$2,900
9/23/95	0606	9/24/95	0136	52	Major	210	\$3,200
9/25/95	1512	9/26/95	0541	84	Major	234	\$3,900
9/26/95	1529	9/27/95	1435	24	Minor	258	\$1,800

Penalties (excluding Maximum One-Day Penalty)	\$37,300
Multiday Penalties (25 % of above total)	\$9,325
Maximum One-Day Penalty	\$3,900
Total Penalty (Sum of Multiday Penalties plus Maximum One-Day Penalty)	\$13,225

The highlighted entry is the violation selected for the maximum one-day penalty.

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:1

AIRS ID: 0530010 # of Emissions Unit: 26
 Owner: FLORIDA MINING &
 Name: FLORIDA MINING & MATERIALS
 City: BROOKSVILLE Office: SWD County: HERNANDO
 Status: A Compliance Tracking Code: A DFC: 04-OCT-95
 SIC: 3241 PSD: Y PPS: N NSPS: Y NESHAP:
 Title V Source: Y Syn Non-Title V Source: Small Business Stationary:
 Major of HAPS: Y Major of Non-HAP Pollutants:
 Syn Minor of HAPS: Syn Minor of Non-HAP Pollutants:

E.U. 1 Desc: CEMENT PLANT RAW MATL STG & HANDLING C-11, C-11A

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	8.6000	8.6000	7.0800	0.2300
PM10				

E.U. 2 Desc: NO. 1 KILN FEED SYSTEM (BAGHOUSE D-31)

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	163.0000	4.1800	3.5400	2.2500
PM10				
PB				

E.U. 3 Desc: CEMENT KILN NO. 1 BAGHOUSE(E-55);REVISED OIL CONCE

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
CO		236		159.4000
SO2	2181.2400	65.7	0.1000	2032.3700
PM	169.8000	169.8000	21.6100	14.8300
NOX			0.0001	527.7700
VOC				3.9851
PM10				
PB				

E.U. 4 Desc: CEMENT PLANT CLINKER COOLER NO. 1 (BAGHOUSE F-18)

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	44.0000	28.1400	17.5800	5.4600
PM10				

E.U. 5 Desc: FINISH MILLS #1 & #2 WITH TWO DUST COLLECTORS

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	158.0000	158.0000	91.4700	166.3900
PM10				
PB				

$$\frac{39 \text{ lb}}{\text{hr}} \times \frac{1 \text{ hr}}{2000 \text{ lb}} \times \frac{8760 \text{ hr}}{\text{yr}} = 170.8 \text{ TPY}$$

$$7.1 = 31.09 \text{ TPY}$$

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:2

E.U.	6	Desc: CLINKER STORAGE SILO NOS. 1&2 (BAGHOUSE F-31)		
			1992	1991
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM	149.0000	5.7200	4.8300	3.4400
E.U.	7	Desc: CLAY CRUSHER DRYER WITH BAGHOUSE UNIT C-10		
			1992	1991
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM		18.5000		
SO2				
NOX				
PM10				
E.U.	8	Desc: NO. 1 KILN BLENDING SILOS (BAGHOUSE NOS. E-36,F-17		
			1992	1991
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM	163.0000	9.7200	8.1700	3.4300
PM10				
E.U.	9	Desc: CEMENT PLT STG SILOS DUST UNIT F-3		
			1992	1991
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM	150.0000	155.5000	134.9700	91.1200
E.U.	11	Desc: RAW MAT'L STORAGE SILOS & FEED SYST. W/BAGHOUSES (
			1992	1991
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM		8.5000		0.2300
PM10				
E.U.	12	Desc: KILN NO. 2 BLENDING SILO W/BAGHOUSE (G-11)		
			1992	1991
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM	7.5300	3.5300	2.5100	0.4300
E.U.	13	Desc: NO. 2 KILN FEED SYSTEM W/BAGHOUSE (H-13)		
			1992	1991
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
SO2	47.1500	47.1500		
VOC	30.3400	30.3400		
CO	262.4000	262.4000		
NOX	1025.0000	1025.0000		
PM	55.3500	55.3500	3.3200	0.0500
PM10				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:3

E.U. 14 Desc: CEMENT KILN NO. 2 BAGHOUSE(E-19); REVISED OIL CONC

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
VOC	31.2000	31.2000	7.1600	8.1400
SO2	47.0000	47.0000	24.7400	1.9000
PM	55.3000	55.3000	13.4400	17.6500
NOX	1025.0000	1025.0000	330.0300	298.9100
PM10				
PB				
CO	262.2000	262.2000	130.8400	129.2300

E.U. 15 Desc: NO. 2 CLINKER COOLER W/BAGHOUSE K-09

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	20.5000	20.5000	15.4200	3.9000
PM10				

E.U. 16 Desc: CLINKER SILO NO. 3 W/BAGHOUSE (L-7)

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	5.9500	5.9500	4.4700	0.2100

E.U. 17 Desc: CLINKER/GYPSUM TRANSFER BELT W/BAGHOUSE (M-09)

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	1.9100	1.9100	0.0020	0.0020

E.U. 18 Desc: FINISH MILL NO. 3 CLINKER/GYPSUM DAY TANK W/BAGHOU

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	5.4400	5.4400	3.7500	0.0900

E.U. 19 Desc: FINISH MILL NO. 3 W/BAGHOUSE (N-23)

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	15.0000	15.0000	10.3300	3.6400
PM10				
PB				

E.U. 20 Desc: ONE OF TWO BAGHOUSES @ #3 FINISH MILL (N-27)

Pollutant	Poten(TPY)	Allow(TPY)	1992 Actual(TPY)	1991 Actual(TPY)
PM	15.0000	15.0000		
PM10				
PB				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:4

E.U.	21	Desc: CEMENT SILOS 7 & 8 W/BAGHOUSE (P-05)		
			1992	1991
<u>Pollutant</u>	<u>Poten(TPY)</u>	<u>Allow(TPY)</u>	<u>Actual(TPY)</u>	<u>Actual(TPY)</u>
PM	8.0000	3.7500	3.7500	0.1800
E.U.	22	Desc: MASONRY SILO W/BAGHOUSE (P-07)		
			1992	1991
<u>Pollutant</u>	<u>Poten(TPY)</u>	<u>Allow(TPY)</u>	<u>Actual(TPY)</u>	<u>Actual(TPY)</u>
PM	3.7500	1.8800	1.8800	0.1000
E.U.	23	Desc: TRUCK LOADOUT SYSTEM W/BAGHOUSE (Q-17)		
			1992	1991
<u>Pollutant</u>	<u>Poten(TPY)</u>	<u>Allow(TPY)</u>	<u>Actual(TPY)</u>	<u>Actual(TPY)</u>
PM	3.7500	1.8800	0.6200	0.1600
E.U.	24	Desc: RAW MATERIAL PRE-MIX BIN W/BAGHOUSE (M-2280)		
			1992	1991
<u>Pollutant</u>	<u>Poten(TPY)</u>	<u>Allow(TPY)</u>	<u>Actual(TPY)</u>	<u>Actual(TPY)</u>
PM	2.3700	2.3700	1.9800	0.0900
PM10				
E.U.	25	Desc: ADDITIVE MATERIAL STORAGE BIN W/BAGHOUSE M-1171		
			1992	1991
<u>Pollutant</u>	<u>Poten(TPY)</u>	<u>Allow(TPY)</u>	<u>Actual(TPY)</u>	<u>Actual(TPY)</u>
PM	0.0280	11.3000	2.8100	0.0600
PM10				
E.U.	26	Desc: CEMENT BAG LOADOUT SYSTEM W/BAGHOUSE (M-3514)		
			1992	1991
<u>Pollutant</u>	<u>Poten(TPY)</u>	<u>Allow(TPY)</u>	<u>Actual(TPY)</u>	<u>Actual(TPY)</u>
PM	1.8700	1.8700	0.4300	0.0800
PM10				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 AIR RESOURCES MANAGEMENT SYSTEM
 FACILITY EMISSION REPORT

16-JUL-96

Page:1

AIRS ID: 0530010 # of Emissions Unit: 26
 Owner: FLORIDA MINING &
 Name: FLORIDA MINING & MATERIALS
 City: BROOKSVILLE Office: SWD County: HERNANDO
 Status: A Compliance Tracking Code: A DFC: 04-OCT-95
 SIC: 3241 PSD: Y PPS: N NSPS: Y NESHAP:
 Title V Source: Y Syn Non-Title V Source: Small Business Stationary:
 Major of HAPS: Y Major of Non-HAP Pollutants:
 Syn Minor of HAPS: Syn Minor of Non-HAP Pollutants:

E.U. 1 Desc: CEMENT PLANT RAW MATL STG & HANDLING C-11, C-11A

Pollutant	Poten(TPY)	Allow(TPY)	1990	1989
			Actual(TPY)	Actual(TPY)
PM	8.6000	8.6000	3.1300	3.3800
PM10				

E.U. 2 Desc: NO. 1 KILN FEED SYSTEM (BAGHOUSE D-31)

Pollutant	Poten(TPY)	Allow(TPY)	1990	1989
			Actual(TPY)	Actual(TPY)
PM	163.0000	4.1800	11.3400	140.6610
PM10				
PB				

E.U. 3 Desc: CEMENT KILN NO. 1 BAGHOUSE(E-55);REVISED OIL CONCE

Pollutant	Poten(TPY)	Allow(TPY)	1990	1989
			Actual(TPY)	Actual(TPY)
CO			159.4000	
SO2	2181.2400			
PM	169.8000	169.8000	0.9600	0.9600
NOX			527.7700	
VOC				
PM10				
PB				

E.U. 4 Desc: CEMENT PLANT CLINKER COOLER NO. 1 (BAGHOUSE F-18)

Pollutant	Poten(TPY)	Allow(TPY)	1990	1989
			Actual(TPY)	Actual(TPY)
PM	44.0000	28.1400	5.3300	5.5300
PM10				

E.U. 5 Desc: FINISH MILLS #1 & #2 WITH TWO DUST COLLECTORS

Pollutant	Poten(TPY)	Allow(TPY)	1990	1989
			Actual(TPY)	Actual(TPY)
PM	158.0000	158.0000	215.7400	206.1200
PM10				
PB				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:2

E.U.	6	Desc: CLINKER STORAGE SILO NOS. 1&2 (BAGHOUSE F-31)		
			1990	1989
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM	149.0000	5.7200	130.7800	147.8900
E.U.	7	Desc: CLAY CRUSHER DRYER WITH BAGHOUSE UNIT C-10		
			1990	1989
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM		18.5000		
SO2				
NOX				
PM10				
E.U.	8	Desc: NO. 1 KILN BLENDING SILOS (BAGHOUSE NOS. E-36,F-17		
			1990	1989
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM	163.0000	9.7200	123.3300	153.0600
PM10				
E.U.	9	Desc: CEMENT PLT STG SILOS DUST UNIT F-3		
			1990	1989
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM	150.0000	155.5000	94.9100	111.0400
E.U.	11	Desc: RAW MAT'L STORAGE SILOS & FEED SYST. W/BAGHOUSES (
			1990	1989
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM		8.5000	4.6800	5.0600
PM10				
E.U.	12	Desc: KILN NO. 2 BLENDING SILO W/BAGHOUSE (G-11)		
			1990	1989
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
PM	7.5300	3.5300	15.1300	15.8900
E.U.	13	Desc: NO. 2 KILN FEED SYSTEM W/BAGHOUSE (H-13)		
			1990	1989
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
-----	-----	-----	-----	-----
SO2	47.1500	47.1500		
VOC	30.3400	30.3400		
CO	262.4000	262.4000		
NOX	1025.0000	1025.0000		
PM	55.3500	55.3500	4.3300	3.9400
PM10				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:3

E.U. 14 Desc: CEMENT KILN NO. 2 BAGHOUSE(E-19); REVISED OIL CONC				
Pollutant	Poten(TPY)	Allow(TPY)	1990 Actual(TPY)	1989 Actual(TPY)
VOC	31.2000	31.2000		
SO2	47.0000	47.0000	8.3000	8.3000
PM	55.3000	55.3000	32.8000	32.8000
NOX	1025.0000	1025.0000	535.5000	535.5000
PM10				
PB				
CO	262.2000	262.2000	153.5000	153.5000

E.U. 15 Desc: NO. 2 CLINKER COOLER W/BAGHOUSE K-09				
Pollutant	Poten(TPY)	Allow(TPY)	1990 Actual(TPY)	1989 Actual(TPY)
PM	20.5000	20.5000	10.8300	10.8300
PM10				

E.U. 16 Desc: CLINKER SILO NO. 3 W/BAGHOUSE (L-7)				
Pollutant	Poten(TPY)	Allow(TPY)	1990 Actual(TPY)	1989 Actual(TPY)
PM	5.9500	5.9500	2.9100	6.0400

E.U. 17 Desc: CLINKER/GYPSUM TRANSFER BELT W/BAGHOUSE (M-09)				
Pollutant	Poten(TPY)	Allow(TPY)	1990 Actual(TPY)	1989 Actual(TPY)
PM	1.9100	1.9100	2.0300	6.0400

E.U. 18 Desc: FINISH MILL NO. 3 CLINKER/GYPSUM DAY TANK W/BAGHOU				
Pollutant	Poten(TPY)	Allow(TPY)	1990 Actual(TPY)	1989 Actual(TPY)
PM	5.4400	5.4400	2.9100	2.0900

E.U. 19 Desc: FINISH MILL NO. 3 W/BAGHOUSE (N-23)				
Pollutant	Poten(TPY)	Allow(TPY)	1990 Actual(TPY)	1989 Actual(TPY)
PM	15.0000	15.0000	12.9000	28.6000
PM10				
PB				

E.U. 20 Desc: ONE OF TWO BAGHOUSES @ #3 FINISH MILL (N-27)				
Pollutant	Poten(TPY)	Allow(TPY)	1990 Actual(TPY)	1989 Actual(TPY)
PM	15.0000	15.0000	12.9000	5.2800
PM10				
PB				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:4

E.U.	21	Desc: CEMENT SILOS 7 & 8 W/BAGHOUSE (P-05)		
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
			1990	1989
PM	8.0000	3.7500	9.1600	10.1500
E.U.	22	Desc: MASONRY SILO W/BAGHOUSE (P-07)		
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
			1990	1989
PM	3.7500	1.8800	1.3000	2.6000
E.U.	23	Desc: TRUCK LOADOUT SYSTEM W/BAGHOUSE (Q-17)		
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
			1990	1989
PM	3.7500	1.8800	1.3000	2.6000
E.U.	24	Desc: RAW MATERIAL PRE-MIX BIN W/BAGHOUSE (M-2280)		
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
			1990	1989
PM	2.3700	2.3700	5.9000	6.4000
PM10				
E.U.	25	Desc: ADDITIVE MATERIAL STORAGE BIN W/BAGHOUSE M-1171		
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
			1990	1989
PM	0.0280	11.3000	0.3800	0.6310
PM10				
E.U.	26	Desc: CEMENT BAG LOADOUT SYSTEM W/BAGHOUSE (M-3514)		
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
			1990	1989
PM	1.8700	1.8700	0.2700	0.2700
PM10				

REPORT OPTIONS

AIRS ID : 0530010
COUNTY : %
OFFICE : %
FACILITY STATUS : %
SORT ORDER : A
TITLE V : %
YEAR : 1990
FACILITY SIC : %
COMPLIANCE TRACKING CODE: %

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:1

AIRS ID: 0530010 # of Emissions Unit: 26
 Owner: FLORIDA MINING &
 Name: FLORIDA MINING & MATERIALS
 City: BROOKSVILLE Office: SWD County: HERNANDO
 Status: A Compliance Tracking Code: A DFC: 04-OCT-95
 SIC: 3241 PSD: Y PPS: N NSPS: Y NESHAP:
 Title V Source: Y Syn Non-Title V Source: Small Business Stationary:
 Major of HAPS: Y Major of Non-HAP Pollutants:
 Syn Minor of HAPS: Syn Minor of Non-HAP Pollutants:

E.U. 1 Desc: CEMENT PLANT RAW MATL STG & HANDLING C-11, C-11A

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	8.6000	8.6000		7.9300
PM10				7.9300

E.U. 2 Desc: NO. 1 KILN FEED SYSTEM (BAGHOUSE D-31)

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	163.0000	4.1800	3.6000	3.7800
PM10			1.8000	3.1750
PB				0.0015

E.U. 3 Desc: CEMENT KILN NO. 1 BAGHOUSE(E-55);REVISED OIL CONCE

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
CO			217.0000	
SO2	2181.2400		2.3300	5.9400
PM	169.8000	169.8000	45.0000	26.1600
NOX			635.0000	571.4600
VOC			15.4000	8.3600
PM10			38.3000	21.9744
PB				0.0109

E.U. 4 Desc: CEMENT PLANT CLINKER COOLER NO. 1 (BAGHOUSE F-18)

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	44.0000	28.1400	26.4800	21.0600
PM10			22.5100	21.0600

E.U. 5 Desc: FINISH MILLS #1 & #2 WITH TWO DUST COLLECTORS

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	158.0000	158.0000	211.6200	214.2100
PM10			179.8800	214.2100
PB				0.0001

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:2

E.U.	6	Desc: CLINKER STORAGE SILO NOS. 1&2 (BAGHOUSE F-31)		
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	149.0000	5.7200	5.1800	5.1100
E.U.	7	Desc: CLAY CRUSHER DRYER WITH BAGHOUSE UNIT C-10		
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM		18.5000		
SO2				
NOX				
PM10				
E.U.	8	Desc: NO. 1 KILN BLENDING SILOS (BAGHOUSE NOS. E-36, F-17)		
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	163.0000	9.7200	8.0400	8.1100
PM10			4.0300	8.1100
E.U.	9	Desc: CEMENT PLT STG SILOS DUST UNIT F-3		
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	150.0000	155.5000	133.9200	133.9200
E.U.	11	Desc: RAW MAT'L STORAGE SILOS & FEED SYST. W/BAGHOUSES (
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM		8.5000	7.7000	
PM10			3.8500	
E.U.	12	Desc: KILN NO. 2 BLENDING SILO W/BAGHOUSE (G-11)		
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	7.5300	3.5300	2.7800	2.9000
E.U.	13	Desc: NO. 2 KILN FEED SYSTEM W/BAGHOUSE (H-13)		
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
SO2	47.1500	47.1500		
VOC	30.3400	30.3400		
CO	262.4000	262.4000		
NOX	1025.0000	1025.0000		
PM	55.3500	55.3500	3.6300	3.8300
PM10			1.8200	3.8300

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:3

E.U. 14 Desc: CEMENT KILN NO. 2 BAGHOUSE(E-19); REVISED OIL CONC

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
VOC	31.2000	31.2000	14.5400	8.4700
SO2	47.0000	47.0000	2.2100	6.0200
PM	55.3000	55.3000	19.8800	23.9400
NOX	1025.0000	1025.0000	601.0000	578.8500
PM10			16.9000	23.9400
PB				0.0099
CO	262.2000	262.2000	191.0000	164.8500

E.U. 15 Desc: NO. 2 CLINKER COOLER W/BAGHOUSE K-09

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	20.5000	20.5000	16.9100	17.8300
PM10			14.3800	17.8300

E.U. 16 Desc: CLINKER SILO NO. 3 W/BAGHOUSE (L-7)

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	5.9500	5.9500	4.9100	5.1700

E.U. 17 Desc: CLINKER/GYPSUM TRANSFER BELT W/BAGHOUSE (M-09)

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	1.9100	1.9100	0.0020	0.0020

E.U. 18 Desc: FINISH MILL NO. 3 CLINKER/GYPSUM DAY TANK W/BAGHOU

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	5.4400	5.4400	4.4800	4.9500

E.U. 19 Desc: FINISH MILL NO. 3 W/BAGHOUSE (N-23)

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	15.0000	15.0000	12.3700	13.6700
PM10			10.5100	13.6700
PB				0.0001

E.U. 20 Desc: ONE OF TWO BAGHOUSES @ #3 FINISH MILL (N-27)

Pollutant	Poten(TPY)	Allow(TPY)	1994	1993
			Actual(TPY)	Actual(TPY)
PM	15.0000	15.0000		
PM10				
PB				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
 AIR RESOURCES MANAGEMENT SYSTEM
 FACILITY EMISSION REPORT

16-JUL-96

Page:4

E.U. 21 Desc: CEMENT SILOS 7 & 8 W/BAGHOUSE (P-05)				
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	8.0000	3.7500	3.4200	5.1800

E.U. 22 Desc: MASONRY SILO W/BAGHOUSE (P-07)				
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	3.7500	1.8800	0.7900	0.7900

E.U. 23 Desc: TRUCK LOADOUT SYSTEM W/BAGHOUSE (Q-17)				
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	3.7500	1.8800	1.0400	1.0400

E.U. 24 Desc: RAW MATERIAL PRE-MIX BIN W/BAGHOUSE (M-2280)				
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	2.3700	2.3700	2.2300	2.2100
PM10			1.1200	2.2100

E.U. 25 Desc: ADDITIVE MATERIAL STORAGE BIN W/BAGHOUSE M-1171				
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	0.0280	11.3000	8.5700	2.4800
PM10			7.2800	2.4800

E.U. 26 Desc: CEMENT BAG LOADOUT SYSTEM W/BAGHOUSE (M-3514)				
Pollutant	Poten(TPY)	Allow(TPY)	1994 Actual(TPY)	1993 Actual(TPY)
PM	1.8700	1.8700	0.9000	0.5600
PM10			0.7700	0.5600

REPORT OPTIONS

AIRS ID : 0530010
COUNTY : %
OFFICE : %
FACILITY STATUS : %
SORT ORDER : A
TITLE V : %
YEAR : 1994
FACILITY SIC : %
COMPLIANCE TRACKING CODE: %

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:1

AIRS ID: 0530010 # of Emissions Unit: 26
 Owner: FLORIDA MINING &
 Name: FLORIDA MINING & MATERIALS
 City: BROOKSVILLE Office: SWD County: HERNANDO
 Status: A Compliance Tracking Code: A DFC: 04-OCT-95
 SIC: 3241 PSD: Y PPS: N NSPS: Y NESHAP:
 Title V Source: Y Syn Non-Title V Source: Small Business Stationary:
 Major of HAPS: Y Major of Non-HAP Pollutants:
 Syn Minor of HAPS: Syn Minor of Non-HAP Pollutants:

E.U. 1 Desc: CEMENT PLANT RAW MATL STG & HANDLING C-11, C-11A

Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY) 1995	Actual(TPY) 1994
PM	8.6000	8.6000		
PM10				

E.U. 2 Desc: NO. 1 KILN FEED SYSTEM (BAGHOUSE D-31)

Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY) 1995	Actual(TPY) 1994
PM	163.0000	4.1800	3.6000	3.6000
PM10				1.8000
PB				

E.U. 3 Desc: CEMENT KILN NO. 1 BAGHOUSE(E-55);REVISED OIL CONCE

Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY) 1995	Actual(TPY) 1994
CO			208.7900	217.0000
SO2	2181.2400		3.6000	2.3300
PM	169.8000	169.8000	95.6900	45.0000
NOX			596.9200	635.0000
VOC			19.0500	15.4000
PM10			81.3400	38.3000
PB				

E.U. 4 Desc: CEMENT PLANT CLINKER COOLER NO. 1 (BAGHOUSE F-18)

Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY) 1995	Actual(TPY) 1994
PM	44.0000	28.1400	22.0300	26.4800
PM10			18.7300	22.5100

E.U. 5 Desc: FINISH MILLS #1 & #2 WITH TWO DUST COLLECTORS

Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY) 1995	Actual(TPY) 1994
PM	158.0000	158.0000	106.7600	211.6200
PM10			90.7400	179.8800
PB				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:2

E.U. 6 Desc: CLINKER STORAGE SILO NOS. 1&2 (BAGHOUSE F-31)				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	149.0000	5.7200	4.8300	5.1800
E.U. 7 Desc: CLAY CRUSHER DRYER WITH BAGHOUSE UNIT C-10				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM		18.5000		
SO2				
NOX				
PM10				
E.U. 8 Desc: NO. 1 KILN BLENDING SILOS (BAGHOUSE NOS. E-36,F-17)				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	163.0000	9.7200	7.4600	8.0400
PM10				4.0300
E.U. 9 Desc: CEMENT PLT STG SILOS DUST UNIT F-3				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	150.0000	155.5000	124.0600	133.9200
E.U. 11 Desc: RAW MAT'L STORAGE SILOS & FEED SYST. W/BAGHOUSES (
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM		8.5000	9.2800	7.7000
PM10				3.8500
E.U. 12 Desc: KILN NO. 2 BLENDING SILO W/BAGHOUSE (G-11)				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	7.5300	3.5300	3.8500	2.7800
E.U. 13 Desc: NO. 2 KILN FEED SYSTEM W/BAGHOUSE (H-13)				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
SO2	47.1500	47.1500		
VOC	30.3400	30.3400		
CO	262.4000	262.4000		
NOX	1025.0000	1025.0000		
PM	55.3500	55.3500	3.6700	3.6300
PM10				1.8200

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:3

E.U. 14 Desc: CEMENT KILN NO. 2 BAGHOUSE(E-19); REVISED OIL CONC				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
VOC	31.2000	31.2000	19.6100	14.5400
SO2	47.0000	47.0000	1.1900	2.2100
PM	55.3000	55.3000	31.9800	19.8800
NOX	1025.0000	1025.0000	615.0000	601.0000
PM10			27.1900	16.9000
PB				
CO	262.2000	262.2000	215.0000	191.0000

E.U. 15 Desc: NO. 2 CLINKER COOLER W/BAGHOUSE K-09				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	20.5000	20.5000	17.1300	16.9100
PM10			14.5600	14.3800

E.U. 16 Desc: CLINKER SILO NO. 3 W/BAGHOUSE (L-7)				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	5.9500	5.9500	4.9700	4.9100

E.U. 17 Desc: CLINKER/GYPSUM TRANSFER BELT W/BAGHOUSE (M-09)				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	1.9100	1.9100	0.0020	0.0020

E.U. 18 Desc: FINISH MILL NO. 3 CLINKER/GYPSUM DAY TANK W/BAGHOU				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	5.4400	5.4400	3.8400	4.4800

E.U. 19 Desc: FINISH MILL NO. 3 W/BAGHOUSE (N-23)				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	15.0000	15.0000	10.6000	12.3700
PM10			9.0100	10.5100
PB				

E.U. 20 Desc: ONE OF TWO BAGHOUSES @ #3 FINISH MILL (N-27)				
Pollutant	Poten(TPY)	Allow(TPY)	1995 Actual(TPY)	1994 Actual(TPY)
PM	15.0000	15.0000		
PM10				
PB				

DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR RESOURCES MANAGEMENT SYSTEM
FACILITY EMISSION REPORT

16-JUL-96

Page:4

E.U.	21	Desc: CEMENT SILOS 7 & 8 W/BAGHOUSE (P-05)		
			1995	1994
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
PM	8.0000	3.7500	2.6500	3.4200
E.U.	22	Desc: MASONRY SILO W/BAGHOUSE (P-07)		
			1995	1994
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
PM	3.7500	1.8800	0.7900	0.7900
E.U.	23	Desc: TRUCK LOADOUT SYSTEM W/BAGHOUSE (Q-17)		
			1995	1994
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
PM	3.7500	1.8800	1.0400	1.0400
E.U.	24	Desc: RAW MATERIAL PRE-MIX BIN W/BAGHOUSE (M-2280)		
			1995	1994
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
PM	2.3700	2.3700	2.5900	2.2300
PM10				1.1200
E.U.	25	Desc: ADDITIVE MATERIAL STORAGE BIN W/BAGHOUSE M-1171		
			1995	1994
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
PM	0.0280	11.3000	8.5400	8.5700
PM10			7.2600	7.2800
E.U.	26	Desc: CEMENT BAG LOADOUT SYSTEM W/BAGHOUSE (M-3514)		
			1995	1994
Pollutant	Poten(TPY)	Allow(TPY)	Actual(TPY)	Actual(TPY)
PM	1.8700	1.8700	0.9000	0.9000
PM10				0.7700

REPORT OPTIONS

AIRS ID : 0530010
COUNTY : %
OFFICE : %
FACILITY STATUS : %
SORT ORDER : A
TITLE V : %
YEAR : 1995
FACILITY SIC : %
COMPLIANCE TRACKING CODE: %

Southdown

Regarding CO:

- Kiln #1 is permitted at 57.7 lbs CO/hr when burning tires. There was a permit modification in April 1994, and a compliance Test conducted in July 94. Results showed Kiln #1 tested at 53.66 lbs/hr. No test in file for 1995. Permit does not address whether facility should test when they are not burning tires.

CO 1995 AOR allowable is 223.4 tons/yr and actual was 208.8 tons/yr. There were 722 tons tires burned that year which is, 10 % of time operated while burning tires. District thinks they are currently not burning tires. In 1995 there were 65,122 tons of coal burned.

CO - Kiln #2 does not burn tires. Permit says to test annually for CO. Tested in October 1995, passed test with actual of 55.8 lbs/hr vs. allowable of 64 lbs/hr. 1995 AOR reports allowable is 262.4 ton/yr with emissions of 215 tons of CO reported in 1995.

Violations

Attached is a Penalty Computation Worksheet listing the violation types at the emission units and their penalties.

PM Facility knew of problems with bags in 2nd quarter of 1995. By 3rd quarter of 1995 had replaced over 10,000 bags at Kiln #1. But these bags started failing due to defective snap rings attached to the tube sheet, which allowed the bags to fall and VE's to be emitted. Kiln #2 had ductwork erosion in baghouses in the 1st quarter of 1995. Work on ductwork continued through 4th quarter of 1995. Ductwork repairs were able to be completed in January 1996 when both Kiln #1 and Kiln#2 were taken down for maintenance. Kiln #2 failed a stack test for PM on October 12, 1995 (actual was 16.8 lbs/hr vs 13.5 lbs/hr allowable). Retested and passed on October 17, 1995. There has been no incidents of non compliance as of January 1996.

PM At Clinker Cooler #1 facility let Department know the access hatches were not sealing properly during the 2nd quarter of 1995. Clinker Cooler #1 had loose bags in baghouse and failed stack test for PM on October 4, 1995 (actual 12.26 lbs/hr vs allowable of 7.13 lbs/hr). Retested on October 13 and October 16 (2 runs each) and passed averaging 5.95 lbs/hr.

At Clinker Cooler #2 there were holes in the ductwork in the 1st quarter of 1995 and by the 2nd quarter, they had corrected the problem. There were also poor seals on the baghouses.

At Finish Mills #1 and #2 , VE tests were not conducted in 1995.

SWD negotiated a penalty of \$130,000 down from original penalty determination of ~\$196,000. The lack of timeliness with repairs resulting in suspect maintenance practices was the bases for the penalty. Southdown terminated the individual who was responsible for overseeing the maintenance on the baghouses. A Pollution Prevention project is currently being negotiated with Southdown.

AOR tables attached.

Diana's Summary

AOR Year	Emission Unit	Pollutant	Actual TPY	Allowable TPY
1990	Cement Kiln #1	CO	159.4	?
		SO2		
		PM	0.96	169.8
		NOX	527.77	
1991		CO	159.4	?
		SO2	2032.37	
		PM	14.83	169.8
		NOX	527.77	
		VOC	3.98	
1992		CO		?
		SO2	0.1	
		PM	21.61	169.8
		NOX	0.0001	
		VOC		
1993		CO		?
		SO2	5.94	
		PM	26.16	169.8
		NOX	571.46	
		VOC	8.36	
		PM10	21.97	
1994		CO	217	234.4
		SO2	2.33	65.7
		PM	45	169.8
		NOX	635	
		VOC	15.4	
		PM10	38.3	
1995		CO	208.79	234.4
		SO2	3.6	65.7
		PM	95.69	170.8
		NOX	596.92	
		VOC	19.05	
		PM10	81.34	

VDC
 TPY
 15.94 (1994)
 14.05 (1995)

 34.99 TPY
 17.495 TPY

3.9845 lb/hr
 4.8381 lb/hr

 8.8226 lb/hr
 4.4113 lb/hr

while burning tires
 Permit mod in 96

while burning tires

PM
 2 years
 45.00
 95.69

 140.69

11.24 lbs
 24.30

 35.54 lbs
 17.77 lbs

NOx
 635.00 1994
 596.92 1995

 1231.92 ÷ 2
 615.96 TPY average

NOx
 158.73 lb/hr
 151.59 lb/hr

 310.32 lb/hr ÷ 2
 155.16 lb/hr (average)

70.35 TPA

Kiln & cooler No. 1 8001 year 1994
 Kiln & cooler No. 1 7875 year 1995

TPA
 1994 217
 1995 208.79

 425.79
 ÷ 2

lb/hr
 54.24
 53.03

 107.27 ÷ 2
 53.63 lb/hr

212.89

AOR Year	Emission Unit	Pollutant	Actual TPY	Allowable TPY
1990	Clinker Cooler #1	PM	5.33	28.14
		PM10		
1991		PM	5.46	28.14
		PM10		
1992		PM	17.58	28.14
		PM10		
1993		PM	21.06	28.14
		PM10	21.06	
1994		PM	26.48	28.14
		PM10	22.51	
1995		PM	22.03	28.14
		PM10	18.73	
1990	Clinker Cooler #2	PM	10.83	20.5
		PM10		
1991		PM	3.9	20.5
		PM10		
1992		PM	15.42	20.5
		PM10		
1993		PM	17.83	20.5
		PM10	17.83	
1994		PM	16.91	20.5
		PM10	14.38	
1995		PM	17.13	20.5
		PM10	14.56	

Cooler No 1
PM

5.33
5.46
17.58
21.06
22.51
18.73
85.34

PM
26.48
22.03
48.51
74.26
10.62
6.62
5.54
12.21
6.17
2 years PM10 5.63
22.51
18.73
41.24
20.62
TPY
5.19

17.07

Cooler No 2

10.83
3.90
15.42
17.83
14.38
14.56
66.09

PM10
14.38
14.56
28.94
1.447
TPY
3.79
3.79
ll
hr

13.22

PM 2 year
16.91
17.13
34.04
TPY
4.42
4.45
8.87
16.07
TPY
4.44

Kiln & Cooler No 1 8001 1994
Kiln & Cooler No 1 7875 1995
7938

Kiln & Cooler No 2 7478 1994
Kiln & Cooler No 2 7780 1995
7629

allowable * Actual hours of operation

AOR Year	Emission Unit	Pollutant	Actual TPY	Allowable TPY
1990	Cement Kiln #2	VOC		31.2
		SO2	8.3	47
		PM	32.8	55.3
		NOX	535.5	1025
		PM10		
		CO	(153.5)	(262.2)
1991		VOC	8.14	31.2
		SO2	1.9	47
		PM	17.65	55.3
		NOX	298.91	1025
		PM10		
		CO	129.23	(262.2)
1992		VOC	7.16	31.2
		SO2	24.74	47
		PM	13.44	55.3
		NOX	330.03	1025
		PM10		
		CO	(130.84)	(262.2)
1993		VOC	8.47	31.2
		SO2	6.02	47
		PM	23.94	55.3
		NOX	578.85	1025
		PM10	23.94	
		CO	(164.85)	(262.2)
1994		VOC	14.54	31.2
		SO2	2.21	47
		PM	19.88	55.3
		NOX	601	1025
		PM10	16.9	
		CO	(191)	(262.2)
1995		VOC	19.61	31.2
		SO2	1.19	47
		PM	31.98	55.3
		NOX	615	1025
		PM10	27.19	
		CO	(215)	(262.2)

CO

~~153.5~~
 129.23
 130.84
 164.85
 191.00
 215.00
 830.92 / 5
 166.184
 2-year
 191.00 51 lb
 215.00 35
 406.00 106
 203
 TPY
 53
 25.93
 TPY
 6.77

PM/PM10
 32.80
 17.65
 13.44
 23.94
 19.88
 31.98
 106.89 / 5
 21.378
 21.38
 PM 2 years lb
 19.88 53
 31.98 8.23
 51.86 13.3
 4.47
 2 years
 14.54 3.84 lb
 19.61 5.04
 34.15 8.93
 17.075
 TPY

Kiln No 2 & Clunker #2 operated 7478 in 1994
 7780 in 1995

NOx
 601 TPY 1994
 615 TPY 1995
 160 lb/hr
 158.1 lb/hr
 318.1 ÷ 2
 159.05

Kiln	1945	1946	Actual	
Kiln 1	39	[39]	[25.6]	16-25
Kiln 2	13	[39]	[16.8]	12-18
Center No. 1	7.1	[43]	[23.2]	10-12
Center No. 2	5.0	[31]	[10]	8-12

18.4 ton kiln feed

0.09 ton kiln feed

$$\frac{1 \text{ ton}}{2000 \text{ lb}} = 23.428 \text{ TPY}$$

$$= 27.956 \text{ TPY}$$

actual data

1945

$$5.95 \frac{\text{lb}}{\text{hr}} \times \frac{7875 \text{ hr}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$

allowable

$$7.1 \frac{\text{lb}}{\text{hr}} \times \frac{7875 \text{ hr}}{\text{yr}} \times \frac{1 \text{ ton}}{2000 \text{ lb}}$$