

STACK TEST RESULTS SUMMARY - UNIT I KILN  
FLORIDA CRUSHED STONE

| TEST DATE |                  | Part<br>lbs/hr | SO2<br>lbs/hr | NOx<br>lbs/hr | CO<br>lbs/hr | THC<br>lbs/hr | NOTES   |
|-----------|------------------|----------------|---------------|---------------|--------------|---------------|---|
|           | permit allowable | 49.5           | 50.0          | 359.0         | 127.0        | 6.35          |   |
| 08/20/90  | test 1           | 23.03          | 7.16          | 378.1         |              |               | coal only<br>NOx failed stack test                    |
|           | test 2           | 23.12          | 1.74          | 560.8         |              |               |   |
|           | test 3           | 16.03          | 1.78          | 447.5         |              |               |   |
|           | avg.             | 20.73          | 3.56          | 462.1         |              |               |   |
| 03/02/91  | test 1           | 18.69          | 7.81          | 66.9          |              |               | coal only<br>NOx measured on CEM<br>Method 7E         |
|           | test 2           | 22.44          | 3.51          | 59.4          |              |               |   |
|           | test 3           | 31.47          | 4.37          | 152.6         |              |               |   |
|           | avg.             | 24.2           | 5.23          | 92.9          |              |               |   |
| 11/13/91  | test 1           | 25.14          |               | 434           | 63.5         | 3.5           | coal only   |
|           | test 2           | 10.75          |               | 240           | 55           | 3.4           |   |
|           | test 3           | 11.96          |               | 384           | 56.9         | 3.9           |   |
|           | avg.             | 11.36          |               | 353           | 58.6         | 3.6           |   |
|           | test 1           | 10             |               | 210.6         | 74.2         | 1.15          | coal & TDF  |
|           | test 2           | 9.07           |               | 174.6         | 90.4         | 1.31          |   |
|           | test 3           | 0.76           |               | 212.3         | 75.2         | 1.2           |   |
|           | avg.             | 9.61           |               | 199.1         | 79.9         | 1.22          |   |
| 02/11/92  | test 1           |                | 2.26          |               |              |               | coal only   |
|           | test 2           |                | 3.8           |               |              |               |   |
|           | test 3           |                | 3.61          |               |              |               |   |
|           | avg.             |                | 3.22          |               |              |               |   |
| 03/16/93  | test 1           | 1.36           | 4.6           | 222.9         |              |               | coal & TDF burned<br>NOx measured on CEM<br>Method 7E |
|           | test 2           | 2.51           | 3.3           | 212.3         |              |               |   |
|           | test 3           | 1.49           | 3.4           | 207.8         |              |               |   |
|           | avg.             | 1.79           | 3.8           | 214.3         |              |               |   |
| 06/01/94  | test 1           | 10.31          | 4.39          | 200.1         |              |               | coal & TDF burned<br>NOx measured on CEM<br>Method 7E |
|           | test 2           | 11.36          | 3.5           | 170.2         |              |               |   |
|           | test 3           | 8.76           | 3.47          | 306.7         |              |               |   |
|           | avg.             | 10.14          | 3.79          | 225.7         |              |               |   |

Average

15.21 3.92 235.58

83 tons clinker per hour  
127 kiln feed  
rate

Test with P.P.  
or alone

Kanani. I'm sure Teresa talked with you about this item. Below is what I have already done on item 16. Just see what you can fill in and we can discuss on Wednesday. Please do it on All-in-One so I can insert this back into my Interrogatories. On permit numbers, reference the current AO's. On BACT determinations, indicate the PSD numbers. Tarmac had a BACT on Kiln 3 related to a conversion to coal in 1980 or so under the name Maule or Pennsocco. They also had a BACT on Kiln 2 related to a coal conversion. FCS had a BACT in Mid-80's. Southdown used to be Florida Mining and Materials and had some BACT determinations in the 90's. There were several changes in those numbers. Be prepared to lay the whole set of files out in conference room table and we will do this together if you get hung up.

16. Rinker

(a) Rinker Materials Corporation. Cement mill at 1200 N.W. 137th Avenue, Miami, Florida 33182. *Portland Cement Plant*

(b) AC13-213153 Firing of Whole Tires Issue  
 AC13-187599 Decontamination of Soil  
 AO13-172954  
*2 Kilns*

*0250014*  
*Mike Vardeman*  
*305-229-2955*  
*Facility Contact*

(c) No BACT determinations.

*Wet? fuel*  
*Recycled*

(d) Coal 60 % (variable)  
 Tires 5 (none recently)  
 Gas 10 (variable)  
 Oil 35 (difference)

(e) All CKD is returned to the process. Historically they had removed as much as 5-10,000 tons per year (TPY).

Tarmac

(a) Tarmac America, Inc. Cement plant at 11000 N.W. 121 Way, Medley, Florida 33178.

(b) AC13-027742  
 PSD-FL-50  
 PSD-FL-50A

*0250020*  
*Scott Quass*  
*305-481-2800*

(c) BACT Limits 4/7/80

| Kiln # | Fuel | Particulate (TPY) | SO2 (TPY) | NO (TPY) |
|--------|------|-------------------|-----------|----------|
| 1 & 2  | COAL | 24966             | 248.4     | 185.3    |
| 1 & 2  | GAS  | 24966             | 19.7      | 741.3    |
| 1 & 2  | OIL  | 24966             | 198.6     | 491.3    |
| 3      | COAL | 87381             | 115.1     | 648.7    |
| 3      | GAS  | 87381             | 10.3      | 2474.7   |
| 3      | OIL  | 87381             | 95.9      | 1638.1   |

*Wet?*

Kiln # 1 SO2 1.42 lb/ton dry feed, not to exceed 56.7 lb/hr  
 Kiln # 2 SO2 1.42 lb/ton dry feed, not to exceed 56.7 lb/hr

*See JR*

Riviera - Cement plant constructed  
mid-1950's

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Tar ma C -

# TARMA@ cont

Kiln # 3 SO2 0.19 lb/ton dry feed, not to exceed 56.7 lb/hr

1985 Amendment to BACT  
Combination Firing of Kilns # 1-3

| SO2 (lb/hr) |            |            |            |
|-------------|------------|------------|------------|
|             | Kiln # 1   | Kiln # 2   | Kiln # 3   |
| A.)         | Coal - 125 | Gas - 9    | Coal - 400 |
| B.)         | Gas - 9    | Coal - 125 | Coal - 400 |
| C.)         | Coal - 125 | Coal - 125 | -shutdown- |

PSD-FL-142 Issued 2-25-91 Kiln # 2

| Pollutant | Limit (lb/MMBTU) | Equivalent (lb/ton clinker produced) |
|-----------|------------------|--------------------------------------|
| SO2       | 1.20             | 7.80                                 |
| NOx       | 0.70             | 4.55                                 |
| H2SO4     | 0.036            | 0.23                                 |

Fail

- (d) Coal 100 % (during full production)  
Oil (during startup and shutdown)  
Waste Oil (generated on-site)

Recycle

- (e) Over 50 percent of CKD is returned to the process.

Shutdown (Florida Mining and Materials)

~~0052013~~  
AUG 10

(a) Florida Mining and Materials. No.2 Cement Kiln at U.S. Highway 98 (North) (P.O. Box 6) NW of Brooksville, Florida 33512.

- (b) 1. PSD-FL-124 AC27-138850  
2. PSD-FL-124A AC27-173474 Maximum Allowables  
3. PSD-FL-188 AC27-212252 NOx Increase

Minnie Corcoran  
8/3/93

Dry

- (c) Kiln # 2 (from 1. )  
SO2 120 lbs/hr  
NOx 250 lbs/hr

0530010

| Pollutant | Limit (lbs/hr) | TPY          |
|-----------|----------------|--------------|
| PM        | 21.6           | 85.3         |
| SO2       | 12.0           | 47.4         |
| NOx       | 250.0          | 987.0 1025.0 |
| VOC       | 2.7            | 10.7         |
| CO        | 8.9            | 35.1         |
| VE        | < 10% Opacity  |              |

~~Don B.A.~~

Matt Stone  
Facility Contact  
352-796-7241

Preheater

Kiln # 2 (from 3. )  
(Based on 2. except NOx increase)

| Pollutant | Maximum allowables (lbs/hr) | TPY   |
|-----------|-----------------------------|-------|
| PM        | 13.5                        | 85.3  |
| SO2       | 11.5                        | 47.4  |
| NOx       | 250.0, 30 day average       | 987.0 |
| VOC       | 7.4                         | 10.7  |
| CO        | 64.0                        | 35.1  |
| VE        | < 10% Opacity               |       |

Product: Portland Cement

| Kiln #2 (from BACT, 6/5/80) |       |          |         |
|-----------------------------|-------|----------|---------|
|                             | lb/hr | ton/year | Opacity |
| Particulate                 | 24.0  | 94.8     | 10%     |
| NOx                         | 195.3 | 770.8    |         |

A 0.2 lb/ton particulate emission limiting rate is used for calculating the kiln emission limit, based on the applicant's test average of 0.141 lb/ton kiln feed.

*Fuel* (d) Fuel Input (from 1. ):  
 213.6 MMBtu/hr (coal of 12000 BTU/lbs heating value)  
 S < 1% by weight

*Recycle* (e) All CKD from air pollution control equipment is returned to process. CKD from kiln bypass (roughly 5 percent compared to control equipment catch) is sold.

Florida Crushed Stone

(a) Florida Crushed Stone Company. Cement plant at 10311 Cement Plant Road, Brooksville, Florida 34601.

(b) PSD-FL-90  
 PSD-FL-91 (90A, 90B, 90C, & 90D) *Kiln #1*  
 AC27-061016  
 AC27-118674

*Dry* (c)

| Pollutant | lb/ton of kiln of feed | max allowable |      |
|-----------|------------------------|---------------|------|
|           |                        | lb/hr         | TPY  |
| PM        | 0.3                    | 37.1          | 162  |
| SO2       | 0.6                    | 74.3          | 325  |
| NOx       | 2.9                    | 359.0         | 1572 |

From BACT PSD-FL-91

Particulate 0.3 lb/ton dry feed  
 VOC 10% Opacity  
 SO2 0.6 lb/ton dry feed  
 NOx 2.9 lb/ton dry feed

*Fuel* (d) Coal 85 %  
 Tires 15  
 Diesel (during warmup - roughly 121,000 gal/year)

Coal consumption 10.3 tons per hour @ max  
 9.25 tons per hour average firing

Fossil fuels must be the only fuels fired (PSD-FL-91)  
 Maximum Heat Input 248 MMBtu/hr  
 Maximum Production 75 ton clinker/hr

*Recycle* (e) Over 95 percent of CKD is returned to the process. The rest is

Product: Portland Cement

sold.

Add

FCS Kiln #2

See PD for 16/ton feed

0530021-001-AC

Tom Mountain - Facility Contact

Ern. Mangse

352-799-7881

# TARMAC 94-93

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR RESOURCES MANAGEMENT SYSTEM  
FACILITY EMISSION REPORT

11-SEP-96

Page:1

AIRS ID: 0250020 # of Emissions Unit: 19  
 Owner: TARMAC FLORIDA  
 Name: TARMAC FLORIDA  
 City: MEDLEY Office: SEDA County: DADE  
 Status: A Compliance Tracking Code: A DFC: 22-SEP-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: 41 TPH KILN#1 W/ELECTROSTATIC PRECIPITATOR

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| SO2       |            | 520.0000   |             |             |
| PM        |            | 110.0000   |             |             |
| NOX       |            |            |             |             |
| PM10      |            |            |             |             |
| PB        |            |            |             |             |

E.U. 2 Desc: 25 TPH COOLER 1 W/MULTICLONE& DOUBLE CHAMBER E.S.P

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        |            | 110.0000   |             |             |
| PM10      |            |            |             |             |

E.U. 3 Desc: 23 TON MILL FOR 23 TPH COAL HANDLING SYSTEM

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 13.5000    | 13.5000    |             | 16.2000     |

E.U. 4 Desc: 41 TPH KILN #2 W/DOUBLE CHAMBER E.S.P.

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| VOC       | 113.5000   | 113.5000   |             |             |
| SO2       | 768.7000   | 768.0000   |             |             |
| SAM       | 23.1000    | 23.1000    |             |             |
| PM        | 56.7600    | 56.7600    |             | 34.3000     |
| PM10      | 48.3000    | 48.3000    |             |             |
| PB        |            |            |             |             |
| NOX       | 524.5000   | 524.5000   |             |             |
| CO        | 1363.9000  | 1363.9000  |             |             |

E.U. 5 Desc: 25 TPH COOLER #2 W/MULTICLONE & DUAL CHAMBER E.S.P

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 56.8000    | 56.8000    |             | 95.3000     |
| PM10      |            |            |             |             |

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E.U. 6 Desc: 142 TPH KILN #3 W/DROPOUT BOX& DUAL CHAMBER E.S.P.

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| SO2       | 1752.0000  | 1752.0000  |             | 1322.4000   |
| PM        | 186.1500   | 186.1500   |             | 14.1000     |
| NOX       | 2592.9600  | 2592.9600  |             | 1345.6000   |
| PM10      |            |            |             |             |
| PB        |            |            |             |             |

E.U. 7 Desc: 88 TPH COOLER#3 W/DROPOUT BOX & BAGHOUSE

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 62.1900    | 62.1900    |             | 6.0000      |
| PM10      |            |            |             |             |

E.U. 8 Desc: CLINKER HANDLING & STORAGE SYSTEM FOR KILNS #1&2 (AC

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 1.0950     |            |             | 1.0000      |

E.U. 9 Desc: CLINKER HANDLING & STORAGE SYSTEM FOR KILN #3

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 4.9050     |            |             | 3.1000      |

E.U. 10 Desc: 25 TPH FINISH MILL #1 W/AIRSLIDE, CONVEYOR & BGHS

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 115.6300   | 115.6300   |             | 3.1000      |
| PM10      |            |            |             |             |
| PB        |            |            |             |             |

E.U. 11 Desc: 2 STPH FINISH MILL #2 W/AIRSLIDE, CONVEYOR& BGHS

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 104.0000   | 104.0000   |             | 2.7000      |
| PM10      |            |            |             |             |
| PB        |            |            |             |             |

E.U. 12 Desc: 84 TPH FINISH MILL #3 W/AIRSLIDE, CONVEYOR & BGHS

| Pollutant | Poten(TPY) | Allow(TPY) | 1994        | 1993        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 153.9100   | 153.9100   |             | 5.6000      |
| PM10      |            |            |             |             |
| PB        |            |            |             |             |



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E.U. 13 Desc: 113 TPH FINISH MILL #4 W/AIRSLIDE, CONVEYOR & BGHS

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1994 | Actual(TPY)<br>1993 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 161.4900   | 161.4900   |                     | 3.2000              |
| PM10      |            |            |                     |                     |
| PB        |            |            |                     |                     |

E.U. 14 Desc: CEMENT STORAGE SILOS #1-12 SERVING MILLS#1-4

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1994 | Actual(TPY)<br>1993 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 17.2500    | 17.0000    |                     | 11.2000             |

E.U. 15 Desc: CEMENT DISTRIBUTION-RAIL AND TRUCK LOADOUTS

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1994 | Actual(TPY)<br>1993 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 5.0000     | 5.0000     |                     | 1.4000              |
| PM10      |            |            |                     |                     |

E.U. 16 Desc: CEMENT DISTRIBUTION-PACKHOUSE W/2 BAGGERS

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1994 | Actual(TPY)<br>1993 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 6.0000     | 6.0000     |                     | 1.8000              |
| PM10      |            |            |                     |                     |

E.U. 17 Desc: 15 TON MILL FOR COAL HANDLING SYSTEM FOR KILN #2.

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1994 | Actual(TPY)<br>1993 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 9.2000     | 9.2000     |                     |                     |

E.U. 18 Desc: FEEDBIN AND ELEVATOR FOR 23 TPH COAL HANDLING SYST.

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1994 | Actual(TPY)<br>1993 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 1.3140     | 1.3140     |                     |                     |
| PM10      |            |            |                     |                     |

E.U. 19 Desc: HOPPER AND WEIGHT FEEDER FOR 23 TPH COAL HANDLING

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1994 | Actual(TPY)<br>1993 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 1.3140     | 1.3140     |                     |                     |
| PM10      |            |            |                     |                     |

REPORT OPTIONS

AIRS ID : 0250020  
COUNTY : %  
OFFICE : %  
FACILITY STATUS : %  
SORT ORDER : A  
TITLE V : %  
YEAR : 1994  
FACILITY SIC : %  
COMPLIANCE TRACKING CODE: %

TARMAC

REPORT OPTIONS

AIRS ID : 0250020  
COUNTY : %  
OFFICE : %  
FACILITY STATUS : %  
SORT ORDER : A  
TITLE V : %  
YEAR : 1992  
FACILITY SIC : %  
COMPLIANCE TRACKING CODE: %

TARMAC

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E.U. 13 Desc: 113 TPH FINISH MILL #4 W/AIRSLIDE, CONVEYOR & BGHS

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1992 | Actual(TPY)<br>1991 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 161.4900   | 161.4900   | 2.1000              | 6.5000              |
| PM10      |            |            |                     |                     |
| PB        |            |            |                     |                     |

E.U. 14 Desc: CEMENT STORAGE SILOS #1-12 SERVING MILLS#1-4

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1992 | Actual(TPY)<br>1991 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 17.2500    | 17.0000    | 9.2000              | 7.1000              |

E.U. 15 Desc: CEMENT DISTRIBUTION-RAIL AND TRUCK LOADOUTS

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1992 | Actual(TPY)<br>1991 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 5.0000     | 5.0000     | 1.3000              | 1.2000              |
| PM10      |            |            |                     |                     |

E.U. 16 Desc: CEMENT DISTRIBUTION-PACKHOUSE W/2 BAGGERS

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1992 | Actual(TPY)<br>1991 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 6.0000     | 6.0000     | 1.2000              | 1.0000              |
| PM10      |            |            |                     |                     |

E.U. 17 Desc: 15 TON MILL FOR COAL HANDLING SYSTEM FOR KILN #2.

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1992 | Actual(TPY)<br>1991 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 9.2000     | 9.2000     |                     |                     |

E.U. 18 Desc: FEEDBIN AND ELEVATOR FOR 23 TPH COAL HANDLING SYST

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1992 | Actual(TPY)<br>1991 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 1.3140     | 1.3140     |                     |                     |
| PM10      |            |            |                     |                     |

E.U. 19 Desc: HOPPER AND WEIGHT FEEDER FOR 23 TPH COAL HANDLING

| Pollutant | Poten(TPY) | Allow(TPY) | Actual(TPY)<br>1992 | Actual(TPY)<br>1991 |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 1.3140     | 1.3140     |                     |                     |
| PM10      |            |            |                     |                     |

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FACILITY EMISSION REPORT

11-SEP-96

Page:1

AIRS ID: 0250020 # of Emissions Unit: 19  
 Owner: TARMAC FLORIDA  
 Name: TARMAC FLORIDA  
 City: MEDLEY Office: SEDA County: DADE  
 Status: A Compliance Tracking Code: A DFC: 22-SEP-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: 41 TPH KILN#1 W/ELECTROSTATIC PRECIPITATOR

| Pollutant | Poten(TPY) | Allow(TPY) | 1992        | 1991        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| SO2       |            | 520.0000   |             |             |
| PM        |            | 110.0000   |             |             |
| NOX       |            |            |             |             |
| PM10      |            |            |             |             |
| PB        |            |            |             |             |

E.U. 2 Desc: 25 TPH COOLER 1 W/MULTICLONE& DOUBLE CHAMBER E.S.P

| Pollutant | Poten(TPY) | Allow(TPY) | 1992        | 1991        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        |            | 110.0000   |             |             |
| PM10      |            |            |             |             |

E.U. 3 Desc: 23 TON MILL FOR 23 TPH COAL HANDLING SYSTEM

| Pollutant | Poten(TPY) | Allow(TPY) | 1992        | 1991        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 13.5000    | 13.5000    | 15.9000     | 12.5000     |

E.U. 4 Desc: 41 TPH KILN #2 W/DOUBLE CHAMBER E.S.P.

| Pollutant | Poten(TPY) | Allow(TPY) | 1992        | 1991        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| VOC       | 113.5000   | 113.5000   |             |             |
| SO2       | 768.7000   | 768.0000   |             |             |
| SAM       | 23.1000    | 23.1000    |             |             |
| PM        | 56.7600    | 56.7600    | 35.4000     |             |
| PM10      | 48.3000    | 48.3000    |             |             |
| PB        |            |            |             |             |
| NOX       | 524.5000   | 524.5000   |             |             |
| CO        | 1363.9000  | 1363.9000  |             |             |

E.U. 5 Desc: 25 TPH COOLER #2 W/MULTICLONE & DUAL CHAMBER E.S.P

| Pollutant | Poten(TPY) | Allow(TPY) | 1992        | 1991        |
|-----------|------------|------------|-------------|-------------|
|           |            |            | Actual(TPY) | Actual(TPY) |
| PM        | 56.8000    | 56.8000    | 26.5000     |             |
| PM10      |            |            |             |             |

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E.U. 6 Desc: 142 TPH KILN #3 W/DROPOUT BOX& DUAL CHAMBER E.S.P.

| Pollutant | Poten(TPY) | Allow(TPY) | 1992<br>Actual(TPY) | 1991<br>Actual(TPY) |
|-----------|------------|------------|---------------------|---------------------|
| SO2       | 1752.0000  | 1752.0000  | 662.7000            | 566.6000            |
| PM        | 186.1500   | 186.1500   | 105.8000            | 23.4200             |
| NOX       | 2592.9600  | 2592.9600  | 1738.1000           | 1528.6000           |
| PM10      |            |            |                     |                     |
| PB        |            |            |                     |                     |

E.U. 7 Desc: 88 TPH COOLER#3 W/DROPOUT BOX & BAGHOUSE

| Pollutant | Poten(TPY) | Allow(TPY) | 1992<br>Actual(TPY) | 1991<br>Actual(TPY) |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 62.1900    | 62.1900    | 35.0000             | 72.9200             |
| PM10      |            |            |                     |                     |

E.U. 8 Desc: CLINKER HANDLING &STORAGE SYSTEM FOR KILNS #1&2(AC

| Pollutant | Poten(TPY) | Allow(TPY) | 1992<br>Actual(TPY) | 1991<br>Actual(TPY) |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 1.0950     |            | 0.5000              |                     |

E.U. 9 Desc: CLINKER HANDLING &STORAGE SYSTEM FOR KILN #3

| Pollutant | Poten(TPY) | Allow(TPY) | 1992<br>Actual(TPY) | 1991<br>Actual(TPY) |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 4.9050     |            | 3.0000              | 2.9000              |

E.U. 10 Desc: 25 TPH FINISH MILL #1 W/AIRSLIDE,CONVEYOR & BGHS

| Pollutant | Poten(TPY) | Allow(TPY) | 1992<br>Actual(TPY) | 1991<br>Actual(TPY) |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 115.6300   | 115.6300   | 1.9000              | 1.6000              |
| PM10      |            |            |                     |                     |
| PB        |            |            |                     |                     |

E.U. 11 Desc: 2 STPH FINISH MILL #2 W/AIRSLIDE,CONVEYOR& BGHS

| Pollutant | Poten(TPY) | Allow(TPY) | 1992<br>Actual(TPY) | 1991<br>Actual(TPY) |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 104.0000   | 104.0000   | 2.6000              | 1.4000              |
| PM10      |            |            |                     |                     |
| PB        |            |            |                     |                     |

E.U. 12 Desc: 84 TPH FINISH MILL #3 W/AIRSLIDE,CONVEYOR &BGHS

| Pollutant | Poten(TPY) | Allow(TPY) | 1992<br>Actual(TPY) | 1991<br>Actual(TPY) |
|-----------|------------|------------|---------------------|---------------------|
| PM        | 153.9100   | 153.9100   | 5.2000              | 4.2000              |
| PM10      |            |            |                     |                     |
| PB        |            |            |                     |                     |