# ASH GROVE CEMENT, INC.

**Cement Kiln Emissions Test**
**Seattle, Washington**

STR02589

**Performed and Reported by:**

VALID RESULTS, INC
3030 N.E. 97th Street
SEATTLE, WA 98115

**For Submittal To:**

Ash Grove Cement
Seattle, Washington

**Submitted On:**

November 22, 2002

627107

SEA0343

AGCS2M001940

# SECTION 1. INTRODUCTION

## 1.1. Test Purpose

Valid Results, Inc. of Seattle, Washington was contracted by Ash Grove Cement, Inc. to provide services for National Emissions Standards for Hazardous Air Pollutants (NESHAP) Dioxins/Furans compliance emission testing of the combined (coal, natural gas and tires) fuel-fired cement kiln located in Seattle, Washington.

Dioxins/Furans emissions tests were conducted on the main stack outlet with the Raw Mill On and with the Raw Mill Off. Dioxins/Furans emissions tests were also conducted on the outlet stack of Coal Mill #1. Volumetric flow rate tests were conducted on the outlet stack of Coal Mill #2.

## 1.2. Test Location

The testing was conducted at the Ash Grove Cement facility in Seattle, Washington.

## 1.3. Test Date(s)

Testing was conducted on October 22nd, 23rd and 24th, 2002.

## 1.4. Parameters Tested

The parameters and test methods used during the test program are summarized below in Table 1-1. The parameters were determined or measured using U.S. Environmental Protection Agency (EPA) test methods that are provided in Title 40, Part 60 (40CFR60), Appendix A of the Code of Federal Regulations (CFR), Part 63 (40CFR63), Appendix A and Section 4, Sampling Analysis Procedures of this report.

## 1.5. Sampling, Analysis and Observing Personnel

Testing was conducted under the direction of Mr. Tracy Prevo with Valid Results. The unit was operated under the direction of Mr. Gerald Brown with the Ash Grove Cement Company. Dioxins/Furans analysis was performed by Alta Analytical Perspectives in Wilmington, North Carolina. The Puget Sound Clean Air Authority (PSCAA) did not have a representative present to observe the testing.

**TABLE 1-1**

**Summary of Test Parameters and Test Methods**

| Parameters | EPA Test Methods | Sample Replicates | Sample Run Duration |
|---|---|---|---|
| Sample Points | 1 | 3 | N/A |
| Exhaust Velocity | 2 | 12 | 180 Minutes |
| Molecular Weight | 3A | 9 | 180 Minutes |
| Exhaust Moisture | 4 | 12 | 180 Minutes |
| Dioxins/Furans | 23 | 9 | 180 Minutes |



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## SECTION 2. SUMMARY OF RESULTS

### 2.1. Test Results

The results of the main stack and the coal mill stack emission testing are summarized in Tables 2-1 and 2-2, respectively. The test results provided in Table 2-1 and 2-2 are based on the average of the three three-hour test runs.

### 2.2. Process Data

Unit operating data is contained in Appendix D.

### 2.3. Comments: Discussion of Quality Assurance and Variations

Quality assurance procedures listed in the test methods referenced in Table 1-1 and the Source Test Plan included in Appendix I were performed and documented. The QA/QC procedures are described in Section 4.3 of the report. Documentation of the QA/QC is provided in Appendix E.

**TABLE 2-1**

**Dioxins/Furans Emission Test Results**
**Rotary Cement Kiln**

| Parameter | Raw Mill On | Raw Mill Off | Limit |
|---|---|---|---|
| **Baghouse Inlet Temperature** | | | |
| Degrees, F | 334 167.8 | 492 265.5 | |
| **Kiln Feed Rate** | | | |
| Tons/hour | 175.3 | 176.5 | |
| **Flow Rate** | | | |
| Feet/second (ft/sec) | 22.6 | 24.7 | |
| Dry Standard Cubic Feet per Minute (dscf/m) | 117,556 | 107,496 | |
| **Exhaust Temperature** | | | |
| Degrees, F | 254.8 | 428.4 | |
| **Exhaust Moisture** | | | |
| Bws, % | 12.0 | 8.1 | |
| **Fixed Gases** | | | |
| $O_2$, % | 8.0 | 6.5 | |
| $CO_2$, % | 23.2 | 25.2 | |
| **Dioxins/Furans** | | | |
| TEQ, ng/dscm | 0.0000 | 0.0060 | |
| TEQ, ng/dscm @7%$O_2$ | 0.0000 | 0.0058 | 0.2 |
| TEQ, ng/megagram of clinker | 0.0 | 10.9 | |
| TEQ, lbs/hr | 0.00E+00 | 2.42E-09 | |



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**TABLE 2-2**
(Revised June 10, 2003)

**Dioxin/Furans Emission Test Results**
**Coal Mill Outlet Stacks**

| Parameter | Coal Mill #1 | Coal Mill #2 | Limit |
|---|---|---|---|
| **Kiln Baghouse Inlet Average Temperature, Runs 1, 2, & 3** | | | |
| Degrees F | 220.3 | 220.3 | |
| **Coal Mill Baghouse Inlet Average Temperature, Runs 1, 2, & 3** | | | |
| Degrees F | 169.7 | 170.3 | |
| **Kiln Feed Rate** | | | |
| Tons/hour | 165.4 | 165.4 | |
| **Flow Rate** | | | |
| Feet/second (ft/sec) | 73.0 | 98.8 | |
| Dry Standard Cubic Feet per Minute dscf/m) | 5,250 | 7,033 | |
| **Coal Mill Baghouse Exhaust Temperature** | | | |
| Degrees F | 163.8 | 169.6 | |
| **Coal Mill Baghouse Exhaust Moisture** | | | |
| Bws, % | 8.76 | 8.57 | |
| **Fixed Gases** | | | |
| $O_2$, % | 12.7 | 12.7 | |
| $CO_2$, % | 13.8 | 13.8 | |
| **Dioxins/Furans** | | | |
| TEQ, ng/dscm | 0.000022 | | |
| TEQ, ng/dscm @ 7 % $O_2$ | 0.000037 | | 0.2 |
| TEQ, ng/megagram of clinker | 0.00219 | | |
| TEQ, lbs/hr | 0.00000013 | | |

Ash Grove Cement
Seattle, WA

Run 1 Coal Mill #1



| [redacted] | Kiln Coal tons/hour 41C.WF1.PI | Calciner Coal tons/hour 41C.WF2.PI | Kiln feed rate tons/hour 412.PG3/4.PC1 | One Minute Average Flow (DSCFM) 413.2K1.FI10K | Tire feed Rate in pounds/hour 41F.BW1.PI | One Minute Average O2 (%) 413.2K1.AI10K | One Minute Average CO (ppm) 413.2K1.AI20K | One Minute Average NOx (ppm) 413.2K1.AI30K | One Minute Average SO2 (ppm) 413.2K1.AI40K | Three Hour Rolling Ave. (%) PowerCT | Baghouse Inlet Temp Deg f 413.BF1.TI1 | Stack Gas Temperature Deg f 413.2K1.TI1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 9:14 AM | 11.05 | 1.35 | 162 | 127,097 | 2,003 | 8.53 | 756.90 | 220.35 | 5.26 | 218.07 | 217.58 | 207.53 |
| 10/22/02 9:15 AM | 11.05 | 1.35 | 162 | 125,069 | 1,351 | 8.57 | 700.16 | 225.25 | 5.91 | 218.07 | 217.09 | 207.28 |
| 10/22/02 9:16 AM | 11.05 | 1.35 | 162 | 124,609 | 2,209 | 8.60 | 721.64 | 220.72 | 5.78 | 218.07 | 217.34 | 206.96 |
| 10/22/02 9:17 AM | 11.05 | 1.35 | 162 | 121,643 | 1,703 | 8.92 | 694.12 | 229.29 | 5.28 | 218.07 | 217.58 | 207.25 |
| 10/22/02 9:18 AM | 11.05 | 1.35 | 162 | 123,664 | 2,352 | 8.74 | 565.52 | 236.88 | 4.81 | 218.07 | 217.34 | 207.26 |
| 10/22/02 9:19 AM | 11.05 | 1.35 | 162 | 124,889 | 2,220 | 8.69 | 578.77 | 237.48 | 4.76 | 218.07 | 218.07 | 207.05 |
| 10/22/02 9:20 AM | 11.05 | 1.35 | 162 | 126,353 | 2,103 | 8.69 | 578.75 | 237.48 | 4.76 | 218.07 | 218.32 | 207.54 |
| 10/22/02 9:21 AM | 11.05 | 1.35 | 162 | 125,049 | 1,530 | 8.67 | 615.16 | 234.28 | 5.55 | 218.07 | 218.07 | 207.41 |
| 10/22/02 9:22 AM | 11.05 | 1.35 | 162 | 125,858 | 1,772 | 8.58 | 796.24 | 224.36 | 7.78 | 218.07 | 218.80 | 207.48 |
| 10/22/02 9:23 AM | 11.05 | 1.35 | 162 | 125,335 | 2,268 | 8.64 | 727.46 | 228.50 | 8.18 | 218.07 | 218.80 | 207.88 |
| 10/22/02 9:24 AM | 11.05 | 1.35 | 162 | 124,824 | 2,173 | 8.64 | 700.00 | 230.25 | 7.97 | 218.07 | 218.80 | 207.87 |
| 10/22/02 9:25 AM | 11.05 | 1.35 | 162 | 127,659 | 1,359 | 8.72 | 763.49 | 221.11 | 6.82 | 218.07 | 219.54 | 207.87 |
| 10/22/02 9:26 AM | 11.05 | 1.35 | 160 | 126,869 | 2,239 | 8.66 | 723.22 | 226.80 | 7.37 | 218.07 | 219.54 | 208.48 |
| 10/22/02 9:27 AM | 11.05 | 1.35 | 160 | 122,925 | 1,820 | 8.60 | 673.37 | 229.61 | 8.81 | 218.07 | 219.29 | 208.16 |
| 10/22/02 9:28 AM | 11.05 | 1.35 | 160 | 124,721 | 1,725 | 8.56 | 748.70 | 222.59 | 8.08 | 218.07 | 219.76 | 208.17 |
| 10/22/02 9:29 AM | 11.05 | 1.35 | 160 | 125,686 | 2,425 | 8.57 | 773.23 | 222.88 | 9.26 | 218.07 | 219.54 | 208.79 |
| 10/22/02 9:30 AM | 11.05 | 1.35 | 160 | 125,167 | 2,129 | 8.63 | 730.02 | 227.34 | 10.36 | 218.07 | 219.54 | 208.42 |
| 10/22/02 9:31 AM | 11.05 | 1.35 | 160 | 123,303 | 1,956 | 8.63 | 658.65 | 229.19 | 9.39 | 218.07 | 220.27 | 208.34 |
| 10/22/02 9:32 AM | 11.05 | 1.35 | 160 | 123,568 | 2,099 | 8.71 | 691.36 | 232.00 | 9.30 | 218.07 | 220.02 | 208.58 |
| 10/22/02 9:33 AM | 11.05 | 1.35 | 160 | 123,066 | 1,956 | 8.76 | 614.97 | 231.75 | 9.68 | 218.07 | 219.54 | 208.58 |
| 10/22/02 9:34 AM | 11.05 | 1.35 | 160 | 123,059 | 2,297 | 8.88 | 626.38 | 236.19 | 8.04 | 218.07 | 220.27 | 208.26 |
| 10/22/02 9:35 AM | 11.05 | 1.35 | 160 | 124,605 | 1,586 | 8.68 | 565.52 | 245.43 | 6.90 | 218.07 | 220.27 | 208.80 |
| 10/22/02 9:36 AM | 11.05 | 1.35 | 160 | 123,481 | 2,025 | 8.54 | 642.81 | 235.07 | 6.94 | 218.07 | 220.02 | 208.79 |
| 10/22/02 9:37 AM | 11.05 | 1.35 | 160 | 124,610 | 2,257 | 8.52 | 737.12 | 229.42 | 6.64 | 218.07 | 220.51 | 208.49 |
| 10/22/02 9:38 AM | 11.05 | 1.35 | 160 | 121,313 | 2,143 | 8.57 | 737.92 | 229.55 | 6.51 | 218.07 | 220.76 | 208.75 |
| 10/22/02 9:39 AM | 11.05 | 1.37 | 160 | 123,134 | 1,985 | 8.55 | 728.31 | 232.13 | 7.03 | 218.07 | 220.51 | 208.83 |
| 10/22/02 9:40 AM | 11.05 | 1.37 | 160 | 122,865 | 1,520 | 8.80 | 759.23 | 233.78 | 7.13 | 218.07 | 220.27 | 208.52 |
| 10/22/02 9:41 AM | 11.05 | 1.37 | 160 | 122,774 | 1,908 | 8.73 | 642.13 | 241.88 | 5.58 | 218.07 | 220.76 | 208.49 |
| 10/22/02 9:42 AM | 11.05 | 1.37 | 160 | 123,206 | 2,304 | 8.68 | 627.35 | 246.47 | 4.66 | 218.07 | 220.76 | 208.79 |
| 10/22/02 9:43 AM | 11.05 | 1.37 | 160 | 122,865 | 1,930 | 8.48 | 643.13 | 250.67 | 4.74 | 218.07 | 220.51 | 208.79 |
| 10/22/02 9:44 AM | 11.05 | 1.37 | 160 | 125,095 | 1,659 | 8.53 | 751.57 | 246.68 | 4.16 | 218.07 | 221.00 | 208.76 |
| 10/22/02 9:45 AM | 11.05 | 1.37 | 160 | 122,805 | 1,802 | 8.43 | 761.08 | 244.48 | 3.59 | 218.07 | 221.00 | 209.09 |
| 10/22/02 9:46 AM | 11.05 | 1.37 | 160 | 120,754 | 1,747 | 8.65 | 818.22 | 243.55 | 4.06 | 218.07 | 220.76 | 209.37 |
| 10/22/02 9:47 AM | 11.05 | 1.37 | 160 | 123,017 | 2,905 | 8.59 | 665.57 | 255.01 | 4.80 | 218.07 | 220.76 | 209.11 |
| 10/22/02 9:48 AM | 11.05 | 1.37 | 160 | 123,937 | 2,191 | 8.66 | 640.18 | 258.95 | 3.81 | 218.07 | 221.00 | 209.10 |
| 10/22/02 9:49 AM | 11.05 | 1.37 | 160 | 125,782 | 1,948 | 8.38 | 642.99 | 253.41 | 3.60 | 218.07 | 221.00 | 209.40 |
| 10/22/02 9:50 AM | 11.05 | 1.37 | 160 | 125,083 | 1,772 | 8.52 | 782.94 | 251.93 | 3.40 | 218.07 | 220.76 | 209.40 |
| 10/22/02 9:51 AM | 11.05 | 1.37 | 160 | 124,088 | 2,345 | 8.68 | 686.62 | 260.10 | 4.62 | 218.07 | 220.76 | 209.61 |
| 10/22/02 9:52 AM | 11.05 | 1.37 | 160 | 124,049 | 2,081 | 8.71 | 568.54 | 277.59 | 4.49 | 218.07 | 221.00 | 209.40 |
| 10/22/02 9:53 AM | 11.05 | 1.37 | 160 | 125,646 | 2,103 | 8.68 | 592.57 | 272.76 | 4.26 | 218.07 | 220.76 | 209.40 |
| 10/22/02 9:54 AM | 11.05 | 1.37 | 160 | 124,848 | 1,765 | 8.75 | 567.06 | 274.51 | 4.35 | 218.32 | 220.76 | 209.65 |
| 10/22/02 9:55 AM | 11.05 | 1.37 | 160 | 126,001 | 2,099 | 8.82 | 544.20 | 274.49 | 4.28 | 218.32 | 221.00 | 209.37 |
| 10/22/02 9:56 AM | 11.05 | 1.37 | 160 | 125,318 | 1,591 | 8.55 | 730.22 | 273.27 | 5.00 | 218.32 | 221.25 | 209.41 |
| 10/22/02 9:57 AM | 11.05 | 1.37 | 160 | 124,339 | 2,014 | 8.45 | 672.25 | 264.75 | 5.91 | 218.32 | 220.76 | 209.40 |
| 10/22/02 9:58 AM | 11.05 | 1.37 | 160 | 123,122 | 2,099 | 8.57 | 661.87 | 263.57 | 6.91 | 218.32 | 221.00 | 208.83 |
| 10/22/02 9:59 AM | 11.05 | 1.37 | 160 | 124,773 | 2,030 | 8.39 | 611.54 | 267.91 | 7.11 | 218.32 | 221.25 | 209.29 |
| 10/22/02 10:00 AM | 11.05 | 1.37 | 160 | 126,841 | 2,315 | 8.32 | 764.41 | 255.80 | 8.10 | 218.32 | 221.00 | 209.56 |
| 10/22/02 10:01 AM | 11.05 | 1.37 | 160 | 125,230 | 1,776 | 8.61 | 822.59 | 260.99 | 9.76 | 218.32 | 220.76 | 209.56 |
| 10/22/02 10:02 AM | 11.05 | 1.37 | 160 | 123,842 | 2,198 | 8.64 | 837.82 | 268.24 | 8.81 | 218.32 | 221.00 | 209.10 |
| 10/22/02 10:03 AM | 11.05 | 1.37 | 160 | 122,982 | 2,037 | 8.75 | 621.98 | 274.65 | 7.71 | 218.32 | 221.49 | 209.39 |
| 10/22/02 10:04 AM | 11.05 | 1.37 | 160 | 123,529 | 2,003 | 8.53 | 584.14 | 272.46 | 7.81 | 218.32 | 221.25 | 209.70 |
| 10/22/02 10:05 AM | 11.05 | 1.37 | 160 | 126,424 | 1,377 | 8.61 | 644.89 | 272.93 | 7.91 | 218.32 | 220.76 | 209.71 |
| 10/22/02 10:06 AM | 11.05 | 1.37 | 160 | 126,470 | 1,611 | 8.45 | 619.28 | 276.68 | 7.99 | 218.32 | 221.00 | 209.41 |
| 10/22/02 10:07 AM | 11.05 | 1.37 | 160 | 125,718 | 1,765 | 8.57 | 704.98 | 275.86 | 8.43 | 218.32 | 221.25 | 209.71 |
| 10/22/02 10:08 AM | 11.05 | 1.37 | 160 | 126,011 | 2,433 | 8.50 | 630.87 | 282.59 | 11.91 | 218.32 | 221.25 | 209.71 |
| 10/22/02 10:09 AM | 11.05 | 1.37 | 160 | 126,451 | 1,743 | 8.43 | 632.34 | 283.53 | 11.91 | 218.32 | 220.76 | 209.71 |
| 10/22/02 10:10 AM | 11.05 | 1.37 | 160 | 124,595 | 2,003 | 8.44 | 700.38 | 261.21 | 12.13 | 218.32 | 221.00 | 209.51 |
| 10/22/02 10:11 AM | 11.05 | 1.37 | 160 | 125,487 | 2,099 | 8.62 | 665.96 | 283.35 | 12.98 | 218.32 | 221.25 | 209.57 |
| 10/22/02 10:12 AM | 11.05 | 1.37 | 160 | 122,897 | 1,842 | 8.49 | 607.02 | 289.94 | 14.22 | 218.32 | 221.00 | 209.40 |
| 10/22/02 10:13 AM | 11.05 | 1.37 | 160 | 124,159 | 2,268 | 8.52 | 692.99 | 277.05 | 14.69 | 218.32 | 220.76 | 209.71 |
| 10/22/02 10:14 AM | 11.05 | 1.37 | 160 | 122,413 | 1,754 | 8.56 | 672.22 | 278.44 | 13.41 | 218.32 | 220.76 | 209.42 |
| 10/22/02 10:15 AM | 11.05 | 1.37 | 160 | 123,205 | 2,297 | 8.41 | 673.81 | 274.53 | 12.77 | 218.32 | 221.25 | 209.73 |
| 10/22/02 10:16 AM | 11.05 | 1.37 | 160 | 124,809 | 1,520 | 8.44 | 793.84 | 274.37 | 14.90 | 218.56 | 221.25 | 210.01 |
| 10/22/02 10:17 AM | 11.05 | 1.37 | 160 | 124,080 | 2,257 | 8.58 | 697.71 | 289.70 | 16.09 | 218.56 | 220.76 | 209.57 |
| 10/22/02 10:18 AM | 11.08 | 1.37 | 160 | 123,210 | 1,732 | 8.53 | 596.84 | 305.90 | 14.25 | 218.56 | 220.51 | 209.40 |
| 10/22/02 10:19 AM | 11.08 | 1.37 | 160 | 123,908 | 2,074 | 8.55 | 586.72 | 307.69 | 14.29 | 218.56 | 221.25 | 209.47 |
| 10/22/02 10:20 AM | 11.08 | 1.37 | 160 | 125,879 | 1,761 | 8.55 | 586.69 | 307.69 | 14.29 | 218.56 | 221.00 | 209.73 |
| 10/22/02 10:21 AM | 11.08 | 1.37 | 160 | 125,895 | 2,198 | 8.55 | 586.69 | 307.69 | 14.29 | 218.56 | 221.00 | 209.51 |
| 10/22/02 10:22 AM | 11.08 | 1.37 | 160 | 123,695 | 2,114 | 8.58 | 574.40 | 316.28 | 14.79 | 218.56 | 220.51 | 209.25 |
| 10/22/02 10:23 AM | 11.08 | 1.37 | 160 | 126,594 | 2,334 | 8.53 | 573.28 | 319.27 | 13.40 | 218.56 | 220.76 | 209.53 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 10:24 AM | 11.08 | 1.36 | 160 | 124,956 | 1,670 | 8.42 | 611.75 | 311.68 | 13.52 | 218.56 | 221.25 | 209.40 |
| 10/22/02 10:25 AM | 11.08 | 1.36 | 160 | 123,399 | 2,370 | 8.46 | 678.95 | 305.84 | 16.06 | 218.56 | 221.00 | 209.71 |
| 10/22/02 10:26 AM | 11.08 | 1.36 | 162 | 124,316 | 2,191 | 8.63 | 613.97 | 312.17 | 15.85 | 218.56 | 220.76 | 209.71 |
| 10/22/02 10:27 AM | 11.08 | 1.36 | 162 | 121,695 | 1,546 | 8.53 | 554.03 | 319.61 | 14.03 | 218.56 | 220.51 | 209.41 |
| 10/22/02 10:28 AM | 11.08 | 1.36 | 162 | 120,548 | 2,025 | 8.55 | 612.51 | 317.40 | 12.03 | 218.56 | 221.25 | 209.39 |
| 10/22/02 10:29 AM | 11.08 | 1.36 | 162 | 123,008 | 1,659 | 8.58 | 601.33 | 320.39 | 13.56 | 218.56 | 221.25 | 209.98 |
| 10/22/02 10:30 AM | 11.08 | 1.36 | 162 | 121,946 | 2,963 | 8.57 | 593.98 | 324.20 | 14.75 | 218.56 | 221.00 | 209.74 |
| 10/22/02 10:31 AM | 11.08 | 1.36 | 162 | 122,149 | 1,794 | 8.44 | 589.55 | 325.18 | 13.51 | 218.56 | 220.51 | 209.70 |
| 10/22/02 10:32 AM | 11.08 | 1.36 | 162 | 121,759 | 1,967 | 8.45 | 652.42 | 308.87 | 12.47 | 218.80 | 221.00 | 209.85 |
| 10/22/02 10:33 AM | 11.15 | 1.36 | 162 | 124,386 | 2,151 | 8.44 | 631.35 | 311.85 | 14.00 | 218.80 | 220.76 | 210.32 |
| 10/22/02 10:34 AM | 11.15 | 1.36 | 162 | 123,200 | 2,246 | 8.47 | 645.33 | 314.81 | 14.04 | 218.80 | 220.27 | 210.05 |
| 10/22/02 10:35 AM | 11.15 | 1.36 | 162 | 125,277 | 2,356 | 8.41 | 658.25 | 305.82 | 13.58 | 218.80 | 220.76 | 209.70 |
| 10/22/02 10:36 AM | 11.15 | 1.36 | 162 | 125,072 | 1,582 | 8.44 | 713.47 | 299.63 | 13.37 | 218.80 | 220.76 | 210.01 |
| 10/22/02 10:37 AM | 11.15 | 1.36 | 162 | 124,725 | 2,132 | 8.42 | 734.94 | 292.95 | 14.97 | 218.80 | 220.76 | 210.32 |
| 10/22/02 10:38 AM | 11.15 | 1.36 | 162 | 124,379 | 1,985 | 8.52 | 758.17 | 301.21 | 15.21 | 218.80 | 220.51 | 209.82 |
| 10/22/02 10:39 AM | 11.15 | 1.37 | 162 | 124,262 | 2,158 | 8.42 | 758.31 | 309.91 | 13.58 | 218.80 | 220.76 | 209.70 |
| 10/22/02 10:40 AM | 11.15 | 1.37 | 162 | 122,861 | 1,919 | 8.43 | 840.02 | 303.12 | 15.24 | 218.80 | 220.76 | 209.85 |
| 10/22/02 10:41 AM | 11.15 | 1.37 | 162 | 123,186 | 2,268 | 8.47 | 804.66 | 309.27 | 17.44 | 218.80 | 220.51 | 210.01 |
| 10/22/02 10:42 AM | 11.15 | 1.37 | 162 | 120,852 | 2,033 | 8.55 | 675.48 | 318.19 | 16.09 | 218.80 | 220.76 | 209.50 |
| 10/22/02 10:43 AM | 11.15 | 1.37 | 162 | 122,487 | 1,454 | 8.36 | 698.89 | 310.18 | 15.58 | 218.80 | 221.25 | 209.87 |
| 10/22/02 10:44 AM | 11.15 | 1.37 | 162 | 121,039 | 1,824 | 8.32 | 820.68 | 302.90 | 21.26 | 218.80 | 220.76 | 210.00 |
| 10/22/02 10:45 AM | 11.15 | 1.37 | 162 | 121,007 | 1,871 | 8.32 | 846.08 | 303.58 | 20.57 | 218.80 | 220.76 | 209.72 |
| 10/22/02 10:46 AM | 11.15 | 1.32 | 162 | 123,826 | 2,323 | 8.17 | 915.63 | 298.64 | 18.59 | 218.80 | 221.00 | 209.71 |
| 10/22/02 10:47 AM | 11.15 | 1.32 | 162 | 124,346 | 2,037 | 8.20 | 1533.70 | 282.25 | 24.14 | 219.05 | 220.76 | 210.01 |
| 10/22/02 10:48 AM | 10.85 | 1.32 | 162 | 119,793 | 1,879 | 8.16 | 1363.88 | 293.44 | 23.67 | 219.05 | 220.51 | 209.82 |
| 10/22/02 10:49 AM | 10.85 | 1.32 | 162 | 121,778 | 2,025 | 8.25 | 1792.54 | 282.58 | 20.51 | 219.05 | 220.76 | 209.69 |
| 10/22/02 10:50 AM | 10.85 | 1.37 | 162 | 124,925 | 2,385 | 8.25 | 1409.03 | 289.66 | 22.43 | 219.05 | 221.00 | 210.01 |
| 10/22/02 10:51 AM | 10.85 | 1.52 | 162 | 124,383 | 1,406 | 8.40 | 1270.18 | 301.93 | 20.92 | 219.05 | 220.51 | 209.54 |
| 10/22/02 10:52 AM | 10.85 | 1.52 | 162 | 122,042 | 1,996 | 8.58 | 1329.20 | 318.83 | 17.61 | 219.05 | 220.76 | 208.23 |
| 10/22/02 10:53 AM | 10.85 | 1.52 | 162 | 124,833 | 1,989 | 8.74 | 877.27 | 324.96 | 17.01 | 219.05 | 221.00 | 209.94 |
| 10/22/02 10:54 AM | 10.85 | 1.52 | 162 | 125,448 | 1,967 | 8.75 | 596.78 | 336.73 | 16.46 | 219.05 | 220.76 | 210.01 |
| 10/22/02 10:55 AM | 10.85 | 1.52 | 162 | 126,045 | 2,198 | 8.80 | 529.01 | 347.94 | 13.04 | 219.05 | 220.51 | 209.71 |
| 10/22/02 10:56 AM | 10.85 | 1.52 | 162 | 123,759 | 1,978 | 8.60 | 504.52 | 338.66 | 10.47 | 219.05 | 221.00 | 209.97 |
| 10/22/02 10:57 AM | 10.85 | 1.52 | 162 | 121,838 | 1,937 | 8.39 | 615.56 | 326.84 | 11.07 | 219.05 | 221.00 | 209.99 |
| 10/22/02 10:58 AM | 10.85 | 1.52 | 162 | 123,261 | 1,842 | 8.30 | 706.30 | 321.07 | 12.98 | 219.05 | 220.76 | 209.71 |
| 10/22/02 10:59 AM | 10.85 | 1.52 | 162 | 122,877 | 2,110 | 8.13 | 793.22 | 312.14 | 13.62 | 219.05 | 220.51 | 209.93 |
| 10/22/02 11:00 AM | 10.85 | 1.52 | 162 | 126,361 | 2,228 | 8.13 | 1218.67 | 302.44 | 15.86 | 219.29 | 220.76 | 210.20 |
| 10/22/02 11:01 AM | 10.85 | 1.52 | 162 | 123,648 | 2,129 | 8.13 | 1035.21 | 304.21 | 19.52 | 219.29 | 221.00 | 210.01 |
| 10/22/02 11:02 AM | 10.85 | 1.52 | 162 | 122,868 | 1,978 | 8.17 | 1110.45 | 306.18 | 19.27 | 219.29 | 220.76 | 209.52 |
| 10/22/02 11:03 AM | 10.81 | 1.52 | 162 | 121,649 | 1,820 | 8.20 | 914.96 | 314.00 | 17.31 | 219.29 | 220.76 | 209.42 |
| 10/22/02 11:04 AM | 10.81 | 1.52 | 162 | 123,126 | 1,985 | 8.27 | 1042.66 | 299.64 | 15.53 | 219.29 | 220.76 | 210.01 |
| 10/22/02 11:05 AM | 10.81 | 1.52 | 162 | 123,930 | 1,824 | 8.33 | 764.43 | 325.44 | 15.37 | 219.29 | 220.27 | 209.82 |
| 10/22/02 11:06 AM | 10.81 | 1.52 | 162 | 125,361 | 1,926 | 8.17 | 798.57 | 316.03 | 12.33 | 219.29 | 220.76 | 209.42 |
| 10/22/02 11:07 AM | 10.81 | 1.52 | 162 | 125,664 | 2,239 | 8.17 | 1079.74 | 305.24 | 11.72 | 219.29 | 220.76 | 209.89 |
| 10/22/02 11:08 AM | 10.81 | 1.52 | 162 | 121,488 | 2,129 | 8.16 | 1063.52 | 312.54 | 13.85 | 219.29 | 220.51 | 209.71 |
| 10/22/02 11:09 AM | 10.81 | 1.52 | 162 | 123,815 | 2,286 | 8.26 | 933.46 | 316.82 | 12.26 | 219.29 | 220.76 | 209.28 |
| 10/22/02 11:10 AM | 10.81 | 1.52 | 162 | 124,557 | 2,121 | 8.24 | 887.96 | 315.27 | 10.39 | 219.29 | 220.76 | 209.63 |
| 10/22/02 11:11 AM | 10.81 | 1.52 | 162 | 123,917 | 2,052 | 8.29 | 858.46 | 317.95 | 11.12 | 219.29 | 220.51 | 209.70 |
| 10/22/02 11:12 AM | 10.81 | 1.52 | 162 | 122,136 | 2,055 | 8.40 | 803.85 | 327.36 | 9.80 | 219.29 | 220.76 | 209.11 |
| 10/22/02 11:13 AM | 10.81 | 1.52 | 162 | 124,658 | 2,074 | 8.29 | 732.27 | 319.29 | 8.37 | 219.29 | 221.25 | 209.70 |
| 10/22/02 11:14 AM | 10.81 | 1.52 | 162 | 123,547 | 1,824 | 8.36 | 789.45 | 324.33 | 8.06 | 219.54 | 221.00 | 209.74 |
| 10/22/02 11:15 AM | 10.81 | 1.52 | 162 | 125,707 | 1,831 | 8.38 | 695.54 | 336.89 | 8.71 | 219.54 | 220.76 | 209.71 |
| 10/22/02 11:16 AM | 10.81 | 1.52 | 162 | 124,888 | 2,096 | 8.30 | 675.93 | 335.08 | 7.95 | 219.54 | 221.00 | 209.10 |
| 10/22/02 11:17 AM | 10.81 | 1.52 | 162 | 127,229 | 1,630 | 8.13 | 788.77 | 328.75 | 7.82 | 219.54 | 221.00 | 209.87 |
| 10/22/02 11:18 AM | 10.81 | 1.52 | 162 | 125,220 | 2,198 | 8.18 | 1059.88 | 317.77 | 11.11 | 219.54 | 220.76 | 209.71 |
| 10/22/02 11:19 AM | 10.81 | 1.52 | 162 | 125,230 | 1,956 | 8.18 | 1071.39 | 315.02 | 11.48 | 219.54 | 220.76 | 209.11 |
| 10/22/02 11:20 AM | 10.81 | 1.52 | 162 | 121,343 | 1,871 | 8.18 | 1071.43 | 315.02 | 11.48 | 219.54 | 221.25 | 209.59 |
| 10/22/02 11:21 AM | 10.81 | 1.52 | 162 | 123,049 | 2,191 | 8.18 | 1071.43 | 315.02 | 11.48 | 219.54 | 220.76 | 209.70 |
| 10/22/02 11:22 AM | 10.81 | 1.52 | 162 | 122,472 | 2,007 | 8.34 | 877.04 | 321.12 | 14.46 | 219.54 | 220.51 | 208.40 |
| 10/22/02 11:23 AM | 10.81 | 1.52 | 162 | 124,476 | 1,648 | 8.29 | 846.69 | 321.81 | 12.38 | 219.54 | 221.00 | 209.71 |
| 10/22/02 11:24 AM | 10.81 | 1.52 | 162 | 124,748 | 2,007 | 8.38 | 795.49 | 330.00 | 12.70 | 219.54 | 221.00 | 209.81 |
| 10/22/02 11:25 AM | 10.81 | 1.52 | 162 | 122,131 | 2,433 | 8.36 | 725.05 | 332.40 | 12.64 | 219.54 | 220.76 | 209.59 |
| 10/22/02 11:26 AM | 10.81 | 1.52 | 162 | 118,361 | 1,956 | 8.34 | 716.31 | 339.51 | 10.72 | 219.54 | 220.76 | 209.16 |
| 10/22/02 11:27 AM | 10.81 | 1.52 | 162 | 120,961 | 2,151 | 8.21 | 735.91 | 334.97 | 9.83 | 219.78 | 221.25 | 209.88 |
| 10/22/02 11:28 AM | 10.81 | 1.52 | 162 | 124,866 | 1,560 | 8.26 | 906.40 | 324.74 | 10.90 | 219.78 | 221.25 | 210.00 |
| 10/22/02 11:29 AM | 10.81 | 1.52 | 162 | 124,694 | 2,162 | 8.35 | 923.01 | 337.04 | 11.63 | 219.78 | 220.76 | 209.71 |
| 10/22/02 11:30 AM | 10.81 | 1.52 | 162 | 121,814 | 1,886 | 8.43 | 714.18 | 351.60 | 10.52 | 219.78 | 220.51 | 209.40 |
| 10/22/02 11:31 AM | 10.81 | 1.52 | 162 | 122,237 | 1,871 | 8.35 | 643.40 | 359.56 | 8.80 | 219.78 | 221.00 | 209.30 |
| 10/22/02 11:32 AM | 10.81 | 1.52 | 162 | 124,551 | 2,198 | 8.30 | 706.21 | 349.64 | 8.57 | 219.78 | 221.00 | 209.71 |
| 10/22/02 11:33 AM | 10.81 | 1.52 | 162 | 124,194 | 1,937 | 8.27 | 713.24 | 350.69 | 10.30 | 219.78 | 220.76 | 209.40 |
| 10/22/02 11:34 AM | 10.81 | 1.52 | 162 | 122,663 | 2,184 | 8.29 | 774.84 | 341.94 | 10.28 | 219.78 | 220.27 | 209.40 |
| 10/22/02 11:35 AM | 10.81 | 1.52 | 162 | 121,905 | 1,919 | 8.40 | 758.25 | 343.27 | 9.96 | 219.78 | 220.76 | 209.06 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 4:03 PM | 10.69 | 1.52 | 166 | 125,246 | 1,553 | 8.39 | 675.81 | 440.99 | 13.34 | 220.02 | 220.02 | 208.80 |
| 10/22/02 4:04 PM | 10.69 | 1.52 | 166 | 124,068 | 1,926 | 8.41 | 605.07 | 443.25 | 10.63 | 220.02 | 220.27 | 208.49 |
| 10/22/02 4:05 PM | 10.69 | 1.52 | 166 | 124,373 | 2,447 | 8.18 | 593.21 | 422.73 | 9.54 | 220.02 | 220.51 | 208.92 |
| 10/22/02 4:06 PM | 10.69 | 1.52 | 166 | 122,763 | 1,858 | 8.03 | 780.86 | 403.76 | 11.37 | 220.02 | 220.27 | 208.79 |
| 10/22/02 4:07 PM | 10.69 | 1.52 | 166 | 122,312 | 2,085 | 8.04 | 1271.16 | 382.15 | 11.54 | 220.02 | 220.27 | 208.52 |
| 10/22/02 4:08 PM | 10.69 | 1.52 | 166 | 123,515 | 2,055 | 8.27 | 1323.32 | 379.50 | 11.83 | 220.02 | 220.51 | 209.59 |
| 10/22/02 4:09 PM | 10.69 | 1.52 | 166 | 124,885 | 1,967 | 8.37 | 835.87 | 406.92 | 11.87 | 220.02 | 220.27 | 208.79 |
| 10/22/02 4:10 PM | 10.69 | 1.52 | 166 | 124,304 | 1,608 | 8.38 | 639.86 | 416.86 | 9.54 | 220.02 | 220.51 | 208.49 |
| 10/22/02 4:11 PM | 10.69 | 1.52 | 166 | 124,449 | 1,549 | 8.22 | 660.68 | 411.34 | 7.82 | 220.02 | 220.76 | 208.79 |
| 10/22/02 4:12 PM | 10.69 | 1.52 | 166 | 120,630 | 2,345 | 8.24 | 864.50 | 417.64 | 8.83 | 220.02 | 220.51 | 208.80 |
| 10/22/02 4:13 PM | 10.69 | 1.52 | 166 | 119,933 | 1,838 | 8.14 | 765.47 | 405.15 | 8.44 | 220.02 | 220.27 | 208.52 |
| 10/22/02 4:14 PM | 10.69 | 1.52 | 166 | 120,606 | 2,286 | 8.23 | 869.52 | 411.27 | 8.69 | 220.02 | 220.51 | 208.77 |
| 10/22/02 4:15 PM | 10.69 | 1.52 | 166 | 124,206 | 2,217 | 8.27 | 801.01 | 424.55 | 9.76 | 220.02 | 220.51 | 209.03 |
| 10/22/02 4:16 PM | 10.69 | 1.52 | 166 | 124,420 | 1,904 | 8.42 | 691.09 | 427.90 | 9.15 | 220.02 | 220.02 | 209.10 |
| 10/22/02 4:17 PM | 10.69 | 1.52 | 166 | 122,569 | 2,334 | 8.48 | 596.32 | 441.26 | 8.23 | 220.02 | 220.76 | 208.73 |
| 10/22/02 4:18 PM | 10.69 | 1.52 | 166 | 122,993 | 2,158 | 8.45 | 541.38 | 440.86 | 6.99 | 220.02 | 220.51 | 209.06 |
| 10/22/02 4:19 PM | 10.69 | 1.52 | 166 | 124,102 | 1,974 | 8.50 | 572.43 | 443.64 | 7.36 | 220.02 | 220.02 | 208.49 |
| 10/22/02 4:20 PM | 10.69 | 1.52 | 166 | 122,718 | 1,897 | 8.43 | 529.70 | 449.82 | 5.53 | 220.02 | 220.76 | 209.59 |
| 10/22/02 4:21 PM | 10.69 | 1.52 | 166 | 124,668 | 2,044 | 8.36 | 559.14 | 447.39 | 6.27 | 220.02 | 220.76 | 209.56 |
| 10/22/02 4:22 PM | 10.69 | 1.52 | 166 | 123,345 | 1,813 | 8.44 | 532.70 | 459.34 | 7.27 | 220.02 | 220.51 | 209.43 |
| 10/22/02 4:23 PM | 10.70 | 1.52 | 166 | 123,736 | 1,937 | 8.51 | 530.81 | 453.78 | 5.86 | 220.02 | 220.51 | 208.79 |
| 10/22/02 4:24 PM | 10.70 | 1.52 | 166 | 124,703 | 1,589 | 8.51 | 505.72 | 467.84 | 6.13 | 220.02 | 220.76 | 209.09 |
| 10/22/02 4:25 PM | 10.70 | 1.52 | 166 | 125,317 | 1,937 | 8.45 | 487.88 | 474.19 | 7.20 | 220.02 | 220.51 | 209.31 |
| 10/22/02 4:26 PM | 10.70 | 1.52 | 166 | 123,982 | 1,901 | 8.38 | 500.97 | 451.52 | 5.26 | 220.02 | 220.27 | 208.81 |
| 10/22/02 4:27 PM | 10.70 | 1.52 | 166 | 121,154 | 2,158 | 8.16 | 557.75 | 426.84 | 4.59 | 220.02 | 220.76 | 208.85 |
| 10/22/02 4:28 PM | 10.70 | 1.52 | 166 | 124,135 | 2,099 | 7.94 | 804.98 | 382.32 | 7.52 | 220.02 | 220.76 | 209.36 |
| 10/22/02 4:29 PM | 10.70 | 1.52 | 166 | 124,626 | 2,085 | 7.93 | 1847.77 | 360.06 | 10.90 | 220.02 | 220.27 | 209.40 |
| 10/22/02 4:30 PM | 10.70 | 1.52 | 166 | 124,344 | 2,074 | 7.93 | 2000.00 | 354.17 | 12.00 | 220.02 | 220.76 | 208.79 |
| 10/22/02 4:31 PM | 10.70 | 1.52 | 166 | 125,306 | 1,890 | 8.01 | 2000.00 | 353.94 | 12.51 | 220.02 | 221.00 | 209.40 |
| 10/22/02 4:32 PM | 10.70 | 1.52 | 166 | 123,392 | 1,560 | 8.13 | 1503.39 | 378.60 | 14.23 | 220.02 | 220.76 | 209.10 |
| 10/22/02 4:33 PM | 10.70 | 1.52 | 166 | 123,711 | 2,025 | 8.27 | 1499.26 | 382.03 | 13.13 | 220.02 | 220.51 | 208.79 |
| 10/22/02 4:34 PM | 10.70 | 1.52 | 166 | 122,783 | 2,905 | 8.20 | 1089.12 | 367.41 | 11.48 | 220.02 | 220.76 | 209.10 |
| 10/22/02 4:35 PM | 10.70 | 1.52 | 166 | 124,531 | 2,239 | 8.24 | 920.62 | 366.67 | 12.76 | 220.02 | 220.76 | 209.40 |
| 10/22/02 4:36 PM | 10.70 | 1.52 | 166 | 122,864 | 1,139 | 8.07 | 867.23 | 356.23 | 11.56 | 220.02 | 220.27 | 209.10 |
| 10/22/02 4:37 PM | 10.70 | 1.52 | 166 | 123,613 | 1,908 | 8.18 | 1406.19 | 334.29 | 11.16 | 220.02 | 220.76 | 208.96 |
| 10/22/02 4:38 PM | 10.70 | 1.52 | 166 | 122,735 | 2,381 | 8.25 | 1153.90 | 351.52 | 12.87 | 220.02 | 220.76 | 209.39 |
| 10/22/02 4:39 PM | 10.70 | 1.52 | 166 | 124,619 | 1,560 | 8.25 | 806.53 | 368.45 | 12.66 | 220.02 | 220.51 | 209.40 |
| 10/22/02 4:40 PM | 10.70 | 1.52 | 166 | 124,054 | 1,696 | 8.34 | 654.24 | 363.73 | 10.25 | 220.02 | 220.51 | 209.06 |
| 10/22/02 4:41 PM | 10.70 | 1.52 | 166 | 124,998 | 2,469 | 8.34 | 713.77 | 373.40 | 8.87 | 220.02 | 220.76 | 209.40 |
| 10/22/02 4:42 PM | 10.70 | 1.52 | 166 | 125,142 | 1,765 | 8.21 | 745.46 | 369.88 | 9.47 | 220.02 | 220.51 | 209.10 |
| 10/22/02 4:43 PM | 10.70 | 1.52 | 166 | 124,345 | 2,070 | 8.17 | 698.36 | 359.19 | 9.13 | 220.02 | 220.51 | 209.10 |
| 10/22/02 4:44 PM | 10.70 | 1.52 | 166 | 124,447 | 1,989 | 8.05 | 1129.31 | 346.39 | 8.55 | 220.02 | 220.51 | 209.79 |
| 10/22/02 4:45 PM | 10.70 | 1.52 | 166 | 127,612 | 1,868 | 8.16 | 1271.51 | 344.12 | 14.17 | 220.02 | 220.51 | 209.76 |
| 10/22/02 4:46 PM | 10.70 | 1.52 | 166 | 125,511 | 1,588 | 8.18 | 1065.90 | 360.38 | 13.53 | 220.02 | 220.27 | 209.10 |
| 10/22/02 4:47 PM | 10.70 | 1.52 | 166 | 125,538 | 2,021 | 8.08 | 1085.60 | 352.49 | 15.51 | 220.02 | 221.00 | 209.29 |
| 10/22/02 4:48 PM | 10.70 | 1.52 | 166 | 121,631 | 1,992 | 8.16 | 1380.95 | 351.34 | 19.06 | 220.02 | 220.76 | 209.71 |
| 10/22/02 4:49 PM | 10.70 | 1.52 | 166 | 122,719 | 1,608 | 8.27 | 940.07 | 368.03 | 15.43 | 220.02 | 220.27 | 209.42 |
| 10/22/02 4:50 PM | 10.70 | 1.52 | 166 | 122,658 | 2,370 | 8.27 | 858.23 | 368.26 | 12.52 | 220.02 | 221.00 | 209.36 |
| 10/22/02 4:51 PM | 10.70 | 1.52 | 166 | 125,542 | 2,114 | 8.18 | 786.50 | 366.41 | 14.28 | 220.02 | 221.00 | 209.71 |
| 10/22/02 4:52 PM | 10.70 | 1.52 | 166 | 122,421 | 2,099 | 8.17 | 896.65 | 364.14 | 14.83 | 220.02 | 220.51 | 209.34 |
| Averages | 10.70 | 1.52 | 165.83 | 123,074 | 2,004 | 8.08 | 871.94 | 396.31 | 11.27 | 220.04 | 220.05 | 208.50 |

Ash Grove Cement
Seattle, WA

Run 3 Coal Mill #1

| Update | Kiln Coal tons/hour 41C.WF1.Fl | Calciner Coal tons/hour 41C.WF2.Fl | Kiln feed rate tons/hour 412.PC3ALFC1 | One Minute Average Flow (DSCFM) 413.2K1.Fl10K | Tire feed Rate In pounds/hour 41F.6W1.Fl | One Minute Average O2 (%) 413.2K1.A10K | One Minute Average CO (ppm) 413.2K1.A12K | One Minute Average NOx (ppm) 413.2K1.A0K | One Minute Average SO2 (ppm) 413.2K1.A6K | Three Hour Rolling Ave. (%) PCM ACT | Baghouse Inlet Temp Deg f 413.BF1.Tl | Stack Gas Temperature Deg f 413.2K1.Tl |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 5:53 PM | 10.70 | 1.52 | 166 | 127,609 | 2,180 | 8.31 | 692.44 | 453.22 | 11.55 | 220.27 | 220.51 | 209.97 |
| 10/22/02 5:54 PM | 10.70 | 1.52 | 166 | 123,566 | 2,158 | 8.35 | 617.25 | 498.58 | 14.05 | 220.27 | 220.27 | 209.71 |
| 10/22/02 5:55 PM | 10.70 | 1.52 | 166 | 121,543 | 2,403 | 8.23 | 599.81 | 480.09 | 11.43 | 220.27 | 220.27 | 209.60 |
| 10/22/02 5:56 PM | 10.70 | 1.52 | 166 | 123,678 | 1,945 | 8.27 | 645.41 | 463.07 | 10.47 | 220.27 | 220.51 | 209.08 |
| 10/22/02 5:57 PM | 10.70 | 1.52 | 166 | 121,960 | 1,641 | 8.22 | 629.86 | 473.49 | 13.28 | 220.27 | 220.51 | 209.11 |
| 10/22/02 5:58 PM | 10.70 | 1.52 | 166 | 124,032 | 1,648 | 8.24 | 614.86 | 473.93 | 13.63 | 220.27 | 220.27 | 209.10 |
| 10/22/02 5:59 PM | 10.70 | 1.52 | 166 | 125,948 | 1,846 | 8.25 | 617.82 | 473.14 | 13.55 | 220.27 | 220.51 | 209.09 |
| 10/22/02 6:00 PM | 10.70 | 1.52 | 166 | 124,486 | 2,623 | 8.25 | 617.83 | 473.14 | 13.55 | 220.27 | 220.51 | 209.40 |
| 10/22/02 6:01 PM | 10.70 | 1.52 | 166 | 125,720 | 1,776 | 8.14 | 651.50 | 461.41 | 13.70 | 220.27 | 220.27 | 209.69 |
| 10/22/02 6:02 PM | 10.70 | 1.52 | 166 | 123,444 | 1,813 | 8.09 | 849.69 | 446.97 | 13.77 | 220.27 | 220.02 | 208.84 |
| 10/22/02 6:03 PM | 10.70 | 1.52 | 166 | 123,929 | 2,293 | 8.09 | 915.79 | 455.78 | 14.73 | 220.27 | 220.51 | 209.31 |
| 10/22/02 6:04 PM | 10.70 | 1.52 | 166 | 123,752 | 2,374 | 8.16 | 941.24 | 455.19 | 17.33 | 220.27 | 220.51 | 209.40 |
| 10/22/02 6:05 PM | 10.70 | 1.52 | 166 | 123,025 | 2,021 | 8.26 | 748.76 | 474.19 | 15.86 | 220.27 | 220.02 | 209.10 |
| 10/22/02 6:06 PM | 10.70 | 1.52 | 166 | 122,584 | 1,520 | 8.29 | 646.09 | 470.60 | 12.71 | 220.27 | 220.51 | 208.83 |
| 10/22/02 6:07 PM | 10.70 | 1.52 | 166 | 122,368 | 1,659 | 8.23 | 634.55 | 467.38 | 12.63 | 220.27 | 220.51 | 209.40 |
| 10/22/02 6:08 PM | 10.70 | 1.52 | 166 | 123,580 | 1,776 | 8.19 | 659.71 | 463.76 | 12.00 | 220.27 | 220.27 | 209.11 |
| 10/22/02 6:09 PM | 10.70 | 1.52 | 166 | 123,094 | 1,685 | 8.24 | 677.93 | 455.07 | 10.90 | 220.27 | 220.51 | 209.10 |
| 10/22/02 6:10 PM | 10.70 | 1.52 | 166 | 125,218 | 2,824 | 8.14 | 663.92 | 456.94 | 10.61 | 220.27 | 220.76 | 209.70 |
| 10/22/02 6:11 PM | 10.70 | 1.52 | 166 | 123,545 | 1,523 | 8.04 | 755.24 | 452.18 | 11.79 | 220.27 | 220.27 | 209.40 |
| 10/22/02 6:12 PM | 10.70 | 1.52 | 166 | 124,139 | 1,930 | 8.06 | 1092.17 | 442.50 | 11.16 | 220.27 | 220.51 | 209.10 |
| 10/22/02 6:13 PM | 10.70 | 1.52 | 166 | 124,222 | 2,290 | 8.08 | 1094.96 | 432.42 | 11.74 | 220.27 | 220.76 | 209.08 |
| 10/22/02 6:14 PM | 10.70 | 1.52 | 166 | 124,525 | 2,257 | 8.18 | 1049.22 | 432.67 | 13.52 | 220.27 | 220.76 | 209.10 |
| 10/22/02 6:15 PM | 10.70 | 1.52 | 166 | 123,673 | 2,103 | 8.27 | 776.71 | 456.08 | 11.99 | 220.27 | 220.27 | 209.10 |
| 10/22/02 6:16 PM | 10.70 | 1.52 | 166 | 127,466 | 2,014 | 8.21 | 703.29 | 460.22 | 9.43 | 220.27 | 220.76 | 209.40 |
| 10/22/02 6:17 PM | 10.70 | 1.52 | 166 | 125,416 | 1,985 | 8.15 | 707.81 | 462.53 | 8.77 | 220.27 | 220.76 | 209.71 |
| 10/22/02 6:18 PM | 10.70 | 1.52 | 166 | 126,246 | 1,842 | 8.24 | 780.08 | 463.24 | 9.06 | 220.51 | 220.51 | 209.40 |
| 10/22/02 6:19 PM | 10.70 | 1.52 | 166 | 123,598 | 1,776 | 8.52 | 674.73 | 482.72 | 8.69 | 220.51 | 220.76 | 208.83 |
| 10/22/02 6:20 PM | 10.70 | 1.52 | 166 | 122,932 | 2,323 | 8.48 | 521.07 | 505.16 | 8.14 | 220.51 | 220.76 | 209.20 |
| 10/22/02 6:21 PM | 10.70 | 1.52 | 166 | 124,280 | 1,531 | 8.45 | 488.10 | 502.24 | 8.11 | 220.51 | 220.76 | 209.11 |
| 10/22/02 6:22 PM | 10.70 | 1.52 | 166 | 124,597 | 1,871 | 8.24 | 512.54 | 491.17 | 8.98 | 220.51 | 220.51 | 209.37 |
| 10/22/02 6:23 PM | 10.69 | 1.52 | 166 | 122,198 | 1,688 | 8.14 | 576.36 | 434.04 | 8.31 | 220.51 | 220.76 | 208.81 |
| 10/22/02 6:24 PM | 10.69 | 1.52 | 166 | 121,086 | 1,531 | 7.98 | 790.03 | 458.31 | 7.62 | 220.51 | 220.76 | 209.10 |
| 10/22/02 6:25 PM | 10.69 | 1.52 | 166 | 121,555 | 2,595 | 8.04 | 934.45 | 469.64 | 10.65 | 220.51 | 220.51 | 209.10 |
| 10/22/02 6:26 PM | 10.69 | 1.52 | 166 | 123,310 | 1,736 | 8.25 | 1076.33 | 452.38 | 10.05 | 220.51 | 220.76 | 208.78 |
| 10/22/02 6:27 PM | 10.69 | 1.52 | 166 | 127,552 | 1,882 | 8.10 | 1153.60 | 454.89 | 12.35 | 220.51 | 221.00 | 209.36 |
| 10/22/02 6:28 PM | 10.69 | 1.52 | 166 | 124,730 | 2,289 | 8.04 | 997.99 | 444.12 | 13.54 | 220.51 | 220.76 | 209.10 |
| 10/22/02 6:29 PM | 10.69 | 1.52 | 166 | 122,827 | 2,025 | 8.16 | 948.23 | 465.88 | 12.29 | 220.51 | 220.51 | 209.02 |
| 10/22/02 6:30 PM | 10.69 | 1.52 | 166 | 122,267 | 2,374 | 8.23 | 762.10 | 491.56 | 11.88 | 220.51 | 220.76 | 208.09 |
| 10/22/02 6:31 PM | 10.69 | 1.52 | 166 | 123,117 | 1,703 | 8.05 | 698.63 | 486.64 | 10.50 | 220.51 | 220.76 | 209.40 |
| 10/22/02 6:32 PM | 10.69 | 1.52 | 166 | 124,215 | 1,967 | 8.00 | 1133.96 | 454.04 | 9.75 | 220.51 | 220.51 | 208.80 |
| 10/22/02 6:33 PM | 10.69 | 1.52 | 166 | 122,606 | 1,967 | 8.14 | 1176.31 | 468.10 | 10.48 | 220.51 | 220.76 | 208.79 |
| 10/22/02 6:34 PM | 10.69 | 1.52 | 166 | 121,274 | 1,959 | 8.18 | 814.27 | 500.89 | 12.19 | 220.51 | 220.76 | 209.07 |
| 10/22/02 6:35 PM | 10.69 | 1.52 | 166 | 123,141 | 2,037 | 8.19 | 662.93 | 526.03 | 11.76 | 220.51 | 220.27 | 209.10 |
| 10/22/02 6:36 PM | 10.69 | 1.52 | 166 | 126,553 | 1,956 | 8.19 | 729.49 | 515.18 | 10.31 | 220.51 | 220.76 | 208.99 |
| 10/22/02 6:37 PM | 10.69 | 1.52 | 166 | 125,080 | 2,103 | 8.00 | 707.26 | 511.08 | 9.89 | 220.51 | 220.76 | 209.12 |
| 10/22/02 6:38 PM | 10.76 | 1.52 | 166 | 126,066 | 1,772 | 8.13 | 1026.82 | 486.26 | 9.84 | 220.51 | 220.02 | 209.40 |
| 10/22/02 6:39 PM | 10.76 | 1.52 | 166 | 126,190 | 2,191 | 8.17 | 841.02 | 507.98 | 10.08 | 220.51 | 220.51 | 209.60 |
| 10/22/02 6:40 PM | 10.76 | 1.52 | 166 | 127,491 | 2,099 | 8.18 | 751.95 | 506.99 | 9.38 | 220.51 | 220.51 | 209.41 |
| 10/22/02 6:41 PM | 10.76 | 1.52 | 166 | 124,210 | 1,853 | 8.19 | 714.95 | 510.89 | 9.65 | 220.51 | 220.27 | 209.02 |
| 10/22/02 6:42 PM | 10.76 | 1.52 | 166 | 123,307 | 2,110 | 8.30 | 685.39 | 515.65 | 8.58 | 220.51 | 220.76 | 208.89 |
| 10/22/02 6:43 PM | 10.76 | 1.52 | 166 | 124,877 | 2,151 | 8.21 | 613.77 | 521.72 | 7.69 | 220.51 | 220.51 | 209.39 |
| 10/22/02 6:44 PM | 10.76 | 1.52 | 166 | 123,628 | 1,652 | 8.17 | 642.34 | 528.65 | 7.70 | 220.51 | 220.27 | 209.10 |
| 10/22/02 6:45 PM | 10.76 | 1.52 | 166 | 124,689 | 1,930 | 8.08 | 733.54 | 515.24 | 7.92 | 220.51 | 220.51 | 208.82 |
| 10/22/02 6:46 PM | 10.76 | 1.52 | 166 | 123,764 | 1,772 | 8.09 | 863.19 | 497.81 | 7.46 | 220.51 | 220.76 | 209.06 |
| 10/22/02 6:47 PM | 10.76 | 1.52 | 166 | 124,263 | 1,868 | 8.06 | 910.93 | 507.04 | 10.38 | 220.51 | 220.76 | 209.21 |
| 10/22/02 6:48 PM | 10.76 | 1.52 | 166 | 123,972 | 1,589 | 8.15 | 810.02 | 523.11 | 11.39 | 220.51 | 220.27 | 209.09 |
| 10/22/02 6:49 PM | 10.76 | 1.52 | 166 | 123,573 | 2,510 | 8.11 | 690.29 | 526.81 | 9.82 | 220.51 | 220.76 | 208.79 |
| 10/22/02 6:50 PM | 10.76 | 1.52 | 166 | 124,476 | 2,268 | 8.12 | 801.12 | 511.81 | 9.85 | 220.51 | 220.76 | 209.19 |
| 10/22/02 6:51 PM | 10.76 | 1.52 | 166 | 123,291 | 2,074 | 8.16 | 739.05 | 510.31 | 10.96 | 220.51 | 220.51 | 209.39 |
| 10/22/02 6:52 PM | 10.76 | 1.52 | 166 | 120,395 | 2,021 | 8.13 | 733.63 | 509.79 | 10.25 | 220.51 | 220.51 | 208.90 |
| 10/22/02 6:53 PM | 10.75 | 1.52 | 166 | 123,158 | 2,440 | 8.19 | 776.75 | 516.46 | 10.93 | 220.51 | 220.76 | 209.06 |
| 10/22/02 6:54 PM | 10.75 | 1.52 | 166 | 123,890 | 1,897 | 8.18 | 676.77 | 527.57 | 12.47 | 220.51 | 220.51 | 209.12 |
| 10/22/02 6:55 PM | 10.75 | 1.52 | 166 | 125,404 | 2,334 | 8.14 | 711.73 | 523.05 | 11.05 | 220.51 | 220.27 | 209.13 |
| 10/22/02 6:56 PM | 10.75 | 1.52 | 166 | 123,996 | 1,791 | 8.18 | 788.20 | 511.43 | 11.17 | 220.51 | 220.76 | 209.09 |
| 10/22/02 6:57 PM | 10.75 | 1.52 | 166 | 122,899 | 2,099 | 8.21 | 737.88 | 522.86 | 13.40 | 220.51 | 220.76 | 209.33 |
| 10/22/02 6:58 PM | 10.75 | 1.52 | 166 | 123,611 | 1,725 | 8.32 | 654.71 | 529.66 | 13.81 | 220.51 | 220.27 | 209.14 |
| 10/22/02 6:59 PM | 10.75 | 1.52 | 166 | 122,296 | 1,853 | 8.32 | 652.02 | 529.91 | 13.74 | 220.51 | 221.00 | 208.89 |
| 10/22/02 7:00 PM | 10.75 | 1.52 | 166 | 123,150 | 1,842 | 8.32 | 652.01 | 529.91 | 13.74 | 220.51 | 220.76 | 209.39 |
| 10/22/02 7:01 PM | 10.75 | 1.52 | 166 | 124,146 | 2,447 | 8.21 | 715.86 | 525.35 | 12.23 | 220.51 | 220.51 | 209.72 |
| 10/22/02 7:02 PM | 10.75 | 1.52 | 166 | 123,091 | 1,718 | 8.17 | 709.79 | 516.76 | 10.87 | 220.51 | 220.51 | 209.34 |

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11/22/02

SEA0350

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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 7:03 PM | 10.75 | 1.52 | 166 | 124,568 | 1,796 | 8.21 | 673.45 | 534.16 | 10.05 | 220.51 | 221.00 | 209.39 |
| 10/22/02 7:04 PM | 10.75 | 1.52 | 166 | 125,958 | 2,312 | 8.25 | 624.69 | 541.47 | 12.44 | 220.51 | 221.00 | 209.61 |
| 10/22/02 7:05 PM | 10.75 | 1.52 | 166 | 126,448 | 2,187 | 8.31 | 607.93 | 536.30 | 11.88 | 220.51 | 220.51 | 209.40 |
| 10/22/02 7:06 PM | 10.75 | 1.52 | 166 | 123,691 | 2,257 | 8.24 | 584.58 | 529.10 | 9.81 | 220.51 | 220.76 | 209.10 |
| 10/22/02 7:07 PM | 10.75 | 1.52 | 166 | 120,819 | 2,315 | 8.25 | 627.51 | 520.08 | 9.71 | 220.51 | 221.25 | 209.40 |
| 10/22/02 7:08 PM | 10.81 | 1.52 | 166 | 123,352 | 2,099 | 8.18 | 619.33 | 536.81 | 11.51 | 220.51 | 221.00 | 209.40 |
| 10/22/02 7:09 PM | 10.81 | 1.52 | 166 | 123,691 | 2,007 | 8.20 | 598.11 | 554.23 | 11.50 | 220.51 | 220.76 | 209.19 |
| 10/22/02 7:10 PM | 10.81 | 1.52 | 166 | 124,404 | 2,293 | 8.22 | 630.44 | 556.82 | 9.90 | 220.51 | 220.76 | 209.10 |
| 10/22/02 7:11 PM | 10.81 | 1.52 | 166 | 122,707 | 2,041 | 8.30 | 590.95 | 565.97 | 8.67 | 220.51 | 220.76 | 209.26 |
| 10/22/02 7:12 PM | 10.81 | 1.52 | 166 | 122,566 | 1,849 | 8.16 | 563.10 | 571.67 | 8.53 | 220.51 | 220.51 | 209.10 |
| 10/22/02 7:13 PM | 10.81 | 1.52 | 166 | 122,189 | 2,055 | 8.10 | 632.08 | 563.52 | 7.89 | 220.51 | 220.76 | 209.04 |
| 10/22/02 7:14 PM | 10.81 | 1.52 | 166 | 120,131 | 2,173 | 8.10 | 775.11 | 546.97 | 7.98 | 220.51 | 221.00 | 209.29 |
| 10/22/02 7:15 PM | 10.81 | 1.52 | 166 | 122,243 | 2,345 | 8.06 | 706.80 | 557.51 | 9.47 | 220.51 | 221.00 | 209.47 |
| 10/22/02 7:16 PM | 10.81 | 1.52 | 166 | 122,195 | 2,158 | 8.09 | 822.11 | 549.72 | 8.91 | 220.51 | 220.51 | 209.24 |
| 10/22/02 7:17 PM | 10.81 | 1.52 | 166 | 124,168 | 2,037 | 8.10 | 804.35 | 546.70 | 8.30 | 220.51 | 220.76 | 209.10 |
| 10/22/02 7:18 PM | 10.81 | 1.52 | 166 | 124,903 | 2,315 | 8.12 | 786.99 | 565.89 | 8.30 | 220.51 | 221.00 | 209.40 |
| 10/22/02 7:19 PM | 10.81 | 1.52 | 166 | 124,660 | 1,494 | 8.13 | 718.54 | 583.65 | 8.75 | 220.51 | 220.76 | 209.62 |
| 10/22/02 7:20 PM | 10.81 | 1.52 | 166 | 126,185 | 2,180 | 8.06 | 697.84 | 584.95 | 7.33 | 220.51 | 220.51 | 209.42 |
| 10/22/02 7:21 PM | 10.81 | 1.52 | 166 | 123,527 | 1,820 | 8.16 | 753.61 | 573.24 | 7.42 | 220.51 | 220.76 | 209.21 |
| 10/22/02 7:22 PM | 10.81 | 1.52 | 166 | 125,578 | 1,805 | 8.14 | 737.20 | 578.32 | 7.72 | 220.51 | 220.76 | 209.40 |
| 10/22/02 7:23 PM | 10.85 | 1.52 | 166 | 124,029 | 2,085 | 8.19 | 1139.66 | 570.11 | 9.02 | 220.51 | 220.76 | 209.41 |
| 10/22/02 7:24 PM | 10.85 | 1.52 | 166 | 124,727 | 2,014 | 8.10 | 862.39 | 576.86 | 9.38 | 220.51 | 220.51 | 209.40 |
| 10/22/02 7:25 PM | 10.85 | 1.52 | 166 | 125,506 | 2,110 | 8.09 | 836.49 | 579.43 | 8.48 | 220.51 | 220.76 | 209.71 |
| 10/22/02 7:26 PM | 10.85 | 1.52 | 166 | 125,229 | 1,919 | 8.09 | 841.16 | 573.15 | 9.06 | 220.51 | 220.76 | 209.71 |
| 10/22/02 7:27 PM | 10.85 | 1.52 | 166 | 125,210 | 1,959 | 8.08 | 807.49 | 572.81 | 9.93 | 220.51 | 220.51 | 209.61 |
| 10/22/02 7:28 PM | 10.85 | 1.52 | 168 | 125,478 | 2,352 | 8.14 | 803.52 | 575.74 | 9.63 | 220.51 | 220.76 | 209.40 |
| 10/22/02 7:29 PM | 10.85 | 1.52 | 168 | 125,950 | 1,736 | 8.12 | 756.05 | 584.99 | 9.26 | 220.51 | 220.76 | 209.77 |
| 10/22/02 7:30 PM | 10.85 | 1.52 | 168 | 123,705 | 1,831 | 8.15 | 758.63 | 587.40 | 9.59 | 220.51 | 220.76 | 209.71 |
| 10/22/02 7:31 PM | 10.85 | 1.52 | 168 | 124,310 | 2,469 | 8.15 | 735.99 | 584.33 | 8.91 | 220.51 | 220.51 | 209.42 |
| 10/22/02 7:32 PM | 10.85 | 1.52 | 168 | 126,055 | 2,132 | 8.17 | 698.64 | 589.89 | 8.23 | 220.51 | 220.76 | 209.36 |
| 10/22/02 7:33 PM | 10.85 | 1.52 | 168 | 124,791 | 2,206 | 8.14 | 691.34 | 601.12 | 8.75 | 220.51 | 220.76 | 209.43 |
| 10/22/02 7:34 PM | 10.85 | 1.52 | 168 | 122,736 | 2,025 | 8.12 | 694.94 | 601.25 | 8.41 | 220.51 | 220.51 | 209.21 |
| 10/22/02 7:35 PM | 10.85 | 1.52 | 168 | 124,005 | 2,612 | 8.09 | 822.97 | 581.05 | 7.93 | 220.51 | 221.00 | 209.55 |
| 10/22/02 7:36 PM | 10.85 | 1.52 | 168 | 125,518 | 2,257 | 8.20 | 784.32 | 588.42 | 8.64 | 220.51 | 221.00 | 209.71 |
| 10/22/02 7:37 PM | 10.85 | 1.52 | 168 | 124,051 | 1,685 | 8.27 | 653.47 | 605.02 | 7.90 | 220.51 | 220.27 | 209.44 |
| 10/22/02 7:38 PM | 10.85 | 1.52 | 168 | 121,361 | 1,908 | 8.32 | 598.79 | 605.84 | 6.90 | 220.51 | 221.00 | 209.10 |
| 10/22/02 7:39 PM | 10.85 | 1.52 | 168 | 122,152 | 2,499 | 8.24 | 598.32 | 590.15 | 6.46 | 220.51 | 221.00 | 209.60 |
| 10/22/02 7:40 PM | 10.85 | 1.52 | 168 | 124,173 | 1,820 | 8.20 | 584.12 | 605.35 | 6.47 | 220.51 | 220.51 | 209.71 |
| 10/22/02 7:41 PM | 10.85 | 1.52 | 168 | 123,053 | 2,143 | 8.14 | 644.48 | 602.48 | 5.97 | 220.51 | 220.27 | 209.11 |
| 10/22/02 7:42 PM | 10.85 | 1.52 | 168 | 125,380 | 1,926 | 8.10 | 722.98 | 609.91 | 5.67 | 220.51 | 221.00 | 209.38 |
| 10/22/02 7:43 PM | 10.85 | 1.52 | 169 | 125,666 | 1,655 | 8.08 | 859.24 | 601.39 | 6.68 | 220.51 | 221.00 | 209.70 |
| 10/22/02 7:44 PM | 10.85 | 1.52 | 169 | 125,343 | 2,092 | 8.17 | 793.94 | 606.13 | 7.14 | 220.51 | 220.27 | 209.71 |
| 10/22/02 7:45 PM | 10.85 | 1.52 | 169 | 124,730 | 2,334 | 8.18 | 771.01 | 604.25 | 6.31 | 220.51 | 220.76 | 209.40 |
| 10/22/02 7:46 PM | 10.85 | 1.52 | 169 | 122,904 | 1,937 | 7.98 | 787.41 | 587.51 | 6.45 | 220.51 | 221.00 | 209.95 |
| 10/22/02 7:47 PM | 10.85 | 1.52 | 169 | 124,121 | 2,169 | 8.05 | 1008.45 | 567.91 | 7.95 | 220.51 | 220.51 | 210.01 |
| 10/22/02 7:48 PM | 10.85 | 1.52 | 169 | 123,916 | 1,824 | 8.03 | 859.11 | 571.82 | 7.69 | 220.51 | 220.76 | 209.71 |
| 10/22/02 7:49 PM | 10.85 | 1.52 | 169 | 124,240 | 2,107 | 7.99 | 1042.79 | 554.11 | 8.11 | 220.51 | 221.00 | 209.99 |
| 10/22/02 7:50 PM | 10.85 | 1.52 | 169 | 123,489 | 2,052 | 8.05 | 980.11 | 552.35 | 10.60 | 220.51 | 220.51 | 209.71 |
| 10/22/02 7:51 PM | 10.85 | 1.52 | 169 | 123,669 | 1,849 | 7.97 | 942.11 | 553.92 | 9.96 | 220.51 | 220.76 | 209.40 |
| 10/22/02 7:52 PM | 10.85 | 1.52 | 169 | 124,525 | 1,707 | 8.00 | 1092.61 | 542.96 | 10.05 | 220.51 | 221.00 | 210.04 |
| 10/22/02 7:53 PM | 10.90 | 1.52 | 169 | 121,303 | 2,121 | 8.14 | 1055.67 | 548.41 | 11.65 | 220.51 | 220.51 | 209.83 |
| 10/22/02 7:54 PM | 10.90 | 1.52 | 169 | 123,895 | 2,275 | 8.14 | 790.12 | 567.40 | 10.39 | 220.51 | 220.51 | 209.43 |
| 10/22/02 7:55 PM | 10.90 | 1.52 | 169 | 125,250 | 2,440 | 8.13 | 766.51 | 563.64 | 8.85 | 220.51 | 221.00 | 209.40 |
| 10/22/02 7:56 PM | 10.90 | 1.52 | 169 | 126,319 | 2,033 | 8.09 | 783.66 | 570.46 | 10.05 | 220.51 | 220.51 | 209.71 |
| 10/22/02 7:57 PM | 10.90 | 1.52 | 169 | 124,026 | 2,228 | 8.14 | 726.13 | 577.23 | 9.88 | 220.51 | 220.51 | 209.11 |
| 10/22/02 7:58 PM | 10.90 | 1.52 | 171 | 124,110 | 1,311 | 8.09 | 746.00 | 586.96 | 8.36 | 220.51 | 221.00 | 209.91 |
| 10/22/02 7:59 PM | 10.90 | 1.52 | 171 | 123,773 | 1,703 | 8.08 | 739.94 | 587.91 | 8.24 | 220.51 | 220.51 | 209.72 |
| 10/22/02 8:00 PM | 10.90 | 1.52 | 171 | 122,504 | 1,897 | 8.06 | 739.93 | 587.91 | 8.24 | 220.51 | 220.27 | 209.12 |
| 10/22/02 8:01 PM | 10.90 | 1.52 | 171 | 124,416 | 2,055 | 8.09 | 752.85 | 579.79 | 8.09 | 220.51 | 220.76 | 209.38 |
| 10/22/02 8:02 PM | 10.90 | 1.52 | 171 | 124,496 | 2,239 | 8.08 | 886.09 | 556.22 | 9.97 | 220.51 | 220.76 | 209.71 |
| 10/22/02 8:03 PM | 10.90 | 1.52 | 171 | 124,699 | 2,173 | 8.12 | 815.00 | 569.32 | 10.04 | 220.51 | 220.51 | 209.40 |
| 10/22/02 8:04 PM | 10.90 | 1.52 | 171 | 122,233 | 2,315 | 8.13 | 778.51 | 575.25 | 9.19 | 220.51 | 221.00 | 209.19 |
| 10/22/02 8:05 PM | 10.90 | 1.52 | 171 | 122,503 | 1,754 | 8.03 | 749.74 | 575.80 | 10.94 | 220.51 | 220.76 | 209.59 |
| 10/22/02 8:06 PM | 10.90 | 1.52 | 171 | 121,848 | 1,860 | 8.00 | 845.09 | 570.30 | 11.77 | 220.51 | 220.51 | 209.79 |
| 10/22/02 8:07 PM | 10.90 | 1.52 | 171 | 124,214 | 2,169 | 8.11 | 926.66 | 561.50 | 12.05 | 220.51 | 220.76 | 209.41 |
| 10/22/02 8:08 PM | 10.90 | 1.52 | 171 | 126,572 | 2,037 | 8.04 | 810.18 | 558.06 | 14.12 | 220.51 | 220.51 | 209.70 |
| 10/22/02 8:09 PM | 10.90 | 1.52 | 171 | 125,210 | 1,388 | 8.07 | 673.99 | 542.89 | 15.02 | 220.51 | 220.27 | 209.20 |
| 10/22/02 8:10 PM | 10.90 | 1.52 | 171 | 123,415 | 1,959 | 8.08 | 902.38 | 542.35 | 15.16 | 220.51 | 220.76 | 209.68 |
| 10/22/02 8:11 PM | 10.90 | 1.52 | 171 | 124,712 | 2,315 | 8.02 | 826.19 | 551.54 | 18.99 | 220.51 | 220.76 | 210.01 |
| 10/22/02 8:12 PM | 10.90 | 1.52 | 171 | 124,040 | 2,110 | 8.09 | 937.44 | 553.10 | 18.24 | 220.51 | 220.27 | 209.16 |
| 10/22/02 8:13 PM | 10.90 | 1.52 | 173 | 124,897 | 1,578 | 7.99 | 855.03 | 556.05 | 16.13 | 220.51 | 220.76 | 209.48 |
| 10/22/02 8:14 PM | 10.90 | 1.52 | 173 | 125,901 | 1,871 | 7.98 | 1206.00 | 527.20 | 18.92 | 220.51 | 220.51 | 209.56 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 11:36 AM | 10.81 | 1.52 | 162 | 124,055 | 2,044 | 8.33 | 660.17 | 353.87 | 10.20 | 219.78 | 220.76 | 209.10 |
| 10/22/02 11:37 AM | 10.81 | 1.52 | 162 | 124,393 | 1,677 | 8.43 | 697.92 | 342.55 | 10.29 | 219.78 | 220.76 | 209.40 |
| 10/22/02 11:38 AM | 10.81 | 1.52 | 162 | 126,083 | 2,469 | 8.36 | 612.59 | 357.49 | 10.45 | 219.78 | 220.27 | 209.40 |
| 10/22/02 11:39 AM | 10.81 | 1.52 | 162 | 126,186 | 2,121 | 8.28 | 677.64 | 354.41 | 9.42 | 219.78 | 220.02 | 209.10 |
| 10/22/02 11:40 AM | 10.81 | 1.52 | 162 | 126,800 | 1,890 | 8.21 | 829.83 | 344.28 | 10.09 | 220.02 | 220.27 | 209.10 |
| 10/22/02 11:41 AM | 10.81 | 1.52 | 162 | 127,628 | 1,648 | 8.19 | 935.34 | 343.26 | 12.04 | 220.02 | 220.76 | 209.40 |
| 10/22/02 11:42 AM | 10.81 | 1.52 | 162 | 124,683 | 2,158 | 8.33 | 875.10 | 351.00 | 14.21 | 220.02 | 220.76 | 209.69 |
| 10/22/02 11:43 AM | 10.81 | 1.52 | 162 | 123,379 | 2,191 | 8.48 | 725.83 | 363.05 | 14.62 | 220.02 | 220.76 | 209.14 |
| 10/22/02 11:44 AM | 10.81 | 1.52 | 162 | 126,134 | 2,275 | 8.38 | 682.32 | 340.10 | 13.61 | 220.02 | 220.27 | 209.34 |
| 10/22/02 11:45 AM | 10.81 | 1.52 | 162 | 124,959 | 1,802 | 8.39 | 751.74 | 337.44 | 12.43 | 220.02 | 220.02 | 209.10 |
| 10/22/02 11:46 AM | 10.81 | 1.52 | 162 | 124,959 | 1,802 | 8.39 | 751.74 | 337.44 | 12.43 | 220.02 | 220.02 | 209.10 |
| 10/22/02 11:47 AM | 10.81 | 1.52 | 162 | 124,022 | 2,239 | 8.51 | 722.77 | 353.00 | 12.37 | 220.02 | 219.78 | 209.14 |
| 10/22/02 11:48 AM | 10.81 | 1.52 | 162 | 121,979 | 2,151 | 8.47 | 587.32 | 365.23 | 12.20 | 220.02 | 219.54 | 208.79 |
| 10/22/02 11:49 AM | 10.81 | 1.52 | 162 | 123,545 | 1,307 | 8.54 | 683.69 | 362.38 | 12.36 | 220.02 | 219.78 | 208.50 |
| 10/22/02 11:50 AM | 10.81 | 1.52 | 162 | 123,839 | 2,356 | 8.38 | 814.89 | 397.35 | 17.32 | 220.02 | 220.27 | 208.84 |
| 10/22/02 11:51 AM | 10.81 | 1.52 | 162 | 123,970 | 2,217 | 8.29 | 658.79 | 380.20 | 18.75 | 220.02 | 220.51 | 209.10 |
| 10/22/02 11:52 AM | 10.81 | 1.52 | 162 | 121,944 | 1,589 | 8.21 | 771.43 | 377.56 | 19.22 | 220.02 | 220.51 | 209.10 |
| 10/22/02 11:53 AM | 10.81 | 1.52 | 162 | 123,264 | 2,033 | 8.32 | 779.12 | 388.06 | 20.06 | 220.02 | 220.27 | 209.10 |
| 10/22/02 11:54 AM | 10.81 | 1.52 | 162 | 126,253 | 2,187 | 8.37 | 690.20 | 393.02 | 18.83 | 220.27 | 220.02 | 209.10 |
| 10/22/02 11:55 AM | 10.81 | 1.52 | 162 | 125,111 | 2,074 | 8.32 | 653.72 | 391.68 | 17.31 | 220.27 | 220.02 | 209.10 |
| 10/22/02 11:56 AM | 10.81 | 1.52 | 162 | 126,257 | 1,659 | 8.29 | 693.88 | 390.25 | 16.80 | 220.27 | 219.78 | 208.78 |
| 10/22/02 11:57 AM | 10.81 | 1.52 | 162 | 125,690 | 1,718 | 8.57 | 721.82 | 378.17 | 17.24 | 220.27 | 219.54 | 209.10 |
| 10/22/02 11:58 AM | 10.81 | 1.52 | 162 | 123,707 | 2,246 | 8.43 | 633.58 | 393.45 | 16.73 | 220.27 | 219.54 | 208.60 |
| 10/22/02 11:59 AM | 10.81 | 1.52 | 162 | 120,660 | 2,132 | 8.36 | 651.77 | 388.07 | 15.79 | 220.27 | 219.29 | 208.49 |
| 10/22/02 12:00 PM | 10.81 | 1.52 | 162 | 122,088 | 1,571 | 8.34 | 627.01 | 388.42 | 15.50 | 220.27 | 219.54 | 208.49 |
| 10/22/02 12:01 PM | 10.81 | 1.52 | 162 | 123,084 | 1,703 | 8.31 | 659.13 | 388.78 | 15.67 | 220.27 | 219.78 | 208.89 |
| 10/22/02 12:02 PM | 10.81 | 1.52 | 162 | 125,115 | 2,422 | 8.34 | 648.01 | 393.22 | 14.79 | 220.27 | 219.78 | 208.89 |
| 10/22/02 12:03 PM | 10.81 | 1.52 | 162 | 125,224 | 1,600 | 8.32 | 658.16 | 385.14 | 13.59 | 220.27 | 219.54 | 208.82 |
| 10/22/02 12:04 PM | 10.81 | 1.52 | 162 | 123,505 | 2,268 | 8.32 | 693.49 | 377.15 | 12.05 | 220.27 | 219.78 | 208.52 |
| 10/22/02 12:05 PM | 10.81 | 1.52 | 162 | 122,115 | 1,937 | 8.27 | 737.05 | 369.01 | 10.26 | 220.27 | 220.02 | 208.79 |
| 10/22/02 12:06 PM | 10.81 | 1.52 | 162 | 122,795 | 2,257 | 8.44 | 735.33 | 371.46 | 11.55 | 220.27 | 220.27 | 209.10 |
| 10/22/02 12:07 PM | 10.81 | 1.52 | 162 | 124,710 | 1,890 | 8.38 | 633.73 | 383.47 | 11.81 | 220.27 | 220.02 | 208.81 |
| 10/22/02 12:08 PM | 10.81 | 1.52 | 162 | 124,820 | 1,926 | 8.35 | 624.07 | 377.47 | 9.72 | 220.27 | 219.78 | 209.10 |
| 10/22/02 12:09 PM | 10.81 | 1.52 | 162 | 124,985 | 2,121 | 8.37 | 660.87 | 378.24 | 8.67 | 220.27 | 220.27 | 209.27 |
| 10/22/02 12:10 PM | 10.81 | 1.52 | 162 | 125,435 | 1,595 | 8.29 | 627.15 | 369.97 | 8.45 | 220.27 | 220.51 | 209.40 |
| 10/22/02 12:11 PM | 10.81 | 1.52 | 162 | 123,314 | 2,173 | 8.20 | 678.31 | 386.11 | 9.98 | 220.51 | 220.27 | 209.23 |
| 10/22/02 12:12 PM | 10.81 | 1.52 | 162 | 122,702 | 2,403 | 8.36 | 789.98 | 375.14 | 10.53 | 220.51 | 219.78 | 209.10 |
| 10/22/02 12:13 PM | 10.81 | 1.52 | 162 | 124,409 | 1,428 | 8.24 | 649.01 | 398.25 | 10.82 | 220.51 | 219.78 | 209.10 |
| 10/22/02 12:14 PM | 10.81 | 1.52 | 162 | 123,294 | 2,411 | 8.27 | 735.79 | 378.81 | 10.54 | 220.51 | 219.78 | 208.66 |
| 10/22/02 12:15 PM | 10.81 | 1.52 | 162 | 121,998 | 1,630 | 8.36 | 790.08 | 382.76 | 10.72 | 220.51 | 220.02 | 208.61 |
| 10/22/02 12:16 PM | 10.81 | 1.52 | 162 | 123,352 | 2,103 | 8.32 | 632.74 | 393.93 | 11.78 | 220.51 | 220.02 | 208.82 |
| 10/22/02 12:17 PM | 10.81 | 1.52 | 162 | 122,191 | 2,081 | 8.33 | 653.52 | 395.52 | 11.20 | 220.51 | 219.78 | 208.79 |
| 10/22/02 12:18 PM | 10.80 | 1.52 | 162 | 123,835 | 2,191 | 8.26 | 646.94 | 396.59 | 10.72 | 220.51 | 219.78 | 208.79 |
| 10/22/02 12:19 PM | 10.80 | 1.52 | 162 | 121,004 | 1,637 | 8.34 | 658.58 | 397.50 | 10.80 | 220.51 | 220.02 | 208.56 |
| 10/22/02 12:20 PM | 10.80 | 1.52 | 162 | 123,526 | 2,352 | 8.34 | 658.73 | 397.44 | 10.81 | 220.51 | 220.27 | 209.26 |
| 10/22/02 12:21 PM | 10.80 | 1.52 | 162 | 120,576 | 1,659 | 8.34 | 658.73 | 397.44 | 10.81 | 220.51 | 220.02 | 209.10 |
| 10/22/02 12:22 PM | 10.80 | 1.52 | 162 | 122,109 | 2,025 | 8.23 | 889.87 | 385.62 | 10.74 | 220.51 | 220.02 | 209.10 |
| Averages | 10.94 | 1.44 | 161.57 | 123,956 | 1,991 | 8.44 | 743.92 | 309.87 | 11.55 | 219.07 | 220.41 | 209.22 |

Ash Grove Cement
Seattle, WA

Run 2 Coal Mill #1



| [redacted] | Kiln Coal tons/hour 41C.WF1.FI | Calciner Coal tons/hour 41C.WF2.FI | Kiln feed rate tons/hour 412.PG34.FC1 | One Minute Average Flow (DSCFM) 413.2K1.FI10K | Tire feed Rate in pounds/hour 41F.BW1.FI | One Minute Average O2 (%) 413.2K1.AI10K | One Minute Average CO (ppm) 413.2K1.AI20K | One Minute Average NOx (ppm) 413.2K1.AI30K | One Minute Average SO2 (ppm) 413.2K1.AI40K | Three Hour Rolling Ave. (%) PCMACT | Baghouse Inlet Temp Deg f 413.BF1.TI1 | Stack Gas Temperature Deg f 413.2K1.TI1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 1:41 PM | 10.70 | 1.52 | 166 | 123,640 | 2,103 | 8.14 | 939.38 | 355.38 | 13.37 | 220.27 | 220.02 | 209.09 |
| 10/22/02 1:42 PM | 10.70 | 1.52 | 166 | 125,563 | 2,052 | 8.26 | 928.44 | 349.09 | 15.25 | 220.27 | 219.78 | 208.52 |
| 10/22/02 1:43 PM | 10.70 | 1.52 | 169 | 124,466 | 2,268 | 8.17 | 1411.02 | 359.41 | 13.89 | 220.27 | 219.78 | 208.33 |
| 10/22/02 1:44 PM | 10.70 | 1.52 | 166 | 122,069 | 1,978 | 8.13 | 1096.41 | 343.44 | 13.10 | 220.27 | 219.78 | 208.37 |
| 10/22/02 1:45 PM | 10.70 | 1.52 | 166 | 121,476 | 2,477 | 8.16 | 1035.70 | 357.52 | 13.56 | 220.27 | 219.54 | 208.21 |
| 10/22/02 1:46 PM | 10.70 | 1.52 | 166 | 123,623 | 1,882 | 8.27 | 844.16 | 377.55 | 12.15 | 220.27 | 219.78 | 208.39 |
| 10/22/02 1:47 PM | 10.70 | 1.52 | 166 | 123,108 | 1,882 | 8.15 | 748.43 | 380.81 | 11.87 | 220.27 | 219.54 | 208.34 |
| 10/22/02 1:48 PM | 10.70 | 1.52 | 166 | 122,433 | 2,436 | 8.18 | 748.90 | 379.54 | 12.43 | 220.27 | 219.29 | 208.14 |
| 10/22/02 1:49 PM | 10.70 | 1.52 | 166 | 127,447 | 2,044 | 8.17 | 785.79 | 374.27 | 11.00 | 220.27 | 219.78 | 208.18 |
| 10/22/02 1:50 PM | 10.70 | 1.52 | 166 | 123,167 | 1,659 | 8.14 | 724.10 | 385.49 | 11.98 | 220.27 | 219.54 | 208.18 |
| 10/22/02 1:51 PM | 10.70 | 1.52 | 166 | 120,644 | 2,641 | 8.27 | 750.80 | 392.58 | 12.24 | 220.27 | 219.54 | 207.88 |
| 10/22/02 1:52 PM | 10.70 | 1.52 | 166 | 121,965 | 2,275 | 8.18 | 831.53 | 388.77 | 10.45 | 220.27 | 219.78 | 207.88 |
| 10/22/02 1:53 PM | 10.70 | 1.52 | 166 | 121,423 | 2,070 | 8.12 | 730.96 | 383.81 | 11.24 | 220.27 | 219.54 | 208.44 |
| 10/22/02 1:54 PM | 10.70 | 1.52 | 166 | 121,139 | 1,311 | 8.15 | 767.00 | 380.88 | 11.51 | 220.27 | 219.54 | 208.13 |
| 10/22/02 1:55 PM | 10.70 | 1.52 | 166 | 119,555 | 1,974 | 8.14 | 756.86 | 377.43 | 11.34 | 220.27 | 219.78 | 207.88 |
| 10/22/02 1:56 PM | 10.70 | 1.52 | 166 | 122,081 | 2,304 | 8.17 | 757.54 | 378.05 | 12.76 | 220.27 | 219.54 | 208.48 |
| 10/22/02 1:57 PM | 10.70 | 1.52 | 166 | 122,941 | 2,206 | 8.16 | 745.68 | 379.75 | 12.50 | 220.27 | 219.78 | 207.89 |
| 10/22/02 1:58 PM | 10.70 | 1.52 | 166 | 125,210 | 1,476 | 8.00 | 822.07 | 367.56 | 11.95 | 220.27 | 220.02 | 208.37 |
| 10/22/02 1:59 PM | 10.70 | 1.52 | 166 | 121,530 | 2,052 | 8.00 | 1082.42 | 351.37 | 12.75 | 220.27 | 219.78 | 208.49 |
| 10/22/02 2:00 PM | 10.70 | 1.52 | 166 | 122,786 | 2,220 | 8.12 | 1121.21 | 351.34 | 11.97 | 220.27 | 220.02 | 208.42 |
| 10/22/02 2:01 PM | 10.70 | 1.52 | 166 | 122,998 | 1,897 | 8.23 | 979.38 | 360.45 | 10.57 | 220.27 | 220.02 | 208.63 |
| 10/22/02 2:02 PM | 10.70 | 1.52 | 166 | 121,121 | 1,838 | 8.15 | 807.72 | 373.55 | 10.10 | 220.27 | 219.78 | 208.18 |
| 10/22/02 2:03 PM | 10.70 | 1.52 | 166 | 121,516 | 2,315 | 8.21 | 923.57 | 357.83 | 8.86 | 220.27 | 220.27 | 208.49 |
| 10/22/02 2:04 PM | 10.70 | 1.52 | 166 | 123,248 | 2,114 | 8.16 | 907.72 | 359.92 | 8.78 | 220.27 | 220.27 | 209.10 |
| 10/22/02 2:05 PM | 10.70 | 1.52 | 166 | 121,509 | 2,162 | 8.19 | 888.01 | 355.55 | 9.83 | 220.02 | 219.78 | 208.41 |
| 10/22/02 2:06 PM | 10.70 | 1.52 | 166 | 122,416 | 1,948 | 8.22 | 877.45 | 365.52 | 9.39 | 220.02 | 220.27 | 208.49 |
| 10/22/02 2:07 PM | 10.70 | 1.52 | 166 | 123,865 | 1,406 | 8.27 | 830.62 | 369.43 | 9.71 | 220.02 | 220.27 | 208.78 |
| 10/22/02 2:08 PM | 10.69 | 1.52 | 166 | 123,331 | 2,217 | 8.28 | 749.54 | 379.14 | 10.29 | 220.02 | 219.78 | 208.79 |
| 10/22/02 2:09 PM | 10.69 | 1.52 | 166 | 120,052 | 1,783 | 8.30 | 704.42 | 383.01 | 8.49 | 220.02 | 220.27 | 208.18 |
| 10/22/02 2:10 PM | 10.69 | 1.52 | 166 | 121,716 | 1,824 | 8.14 | 774.62 | 374.33 | 8.00 | 220.02 | 220.27 | 208.49 |
| 10/22/02 2:11 PM | 10.69 | 1.52 | 166 | 121,590 | 1,714 | 8.12 | 833.77 | 366.28 | 9.99 | 220.02 | 220.02 | 208.48 |
| 10/22/02 2:12 PM | 10.69 | 1.52 | 166 | 122,585 | 2,477 | 8.09 | 907.21 | 378.20 | 9.43 | 220.02 | 220.51 | 208.48 |
| 10/22/02 2:13 PM | 10.69 | 1.52 | 166 | 122,321 | 2,003 | 8.06 | 933.22 | 380.67 | 11.27 | 220.02 | 220.27 | 208.49 |
| 10/22/02 2:14 PM | 10.69 | 1.52 | 166 | 121,144 | 1,956 | 8.07 | 914.99 | 383.20 | 12.93 | 220.02 | 220.02 | 208.30 |
| 10/22/02 2:15 PM | 10.69 | 1.52 | 166 | 122,412 | 1,685 | 8.14 | 926.04 | 383.50 | 11.04 | 220.02 | 220.51 | 208.19 |
| 10/22/02 2:16 PM | 10.69 | 1.52 | 165 | 122,106 | 2,374 | 8.22 | 900.86 | 378.93 | 11.46 | 220.02 | 220.27 | 208.79 |
| 10/22/02 2:17 PM | 10.69 | 1.52 | 165 | 122,144 | 1,743 | 8.25 | 709.42 | 396.81 | 11.91 | 220.02 | 219.78 | 208.50 |
| 10/22/02 2:18 PM | 10.69 | 1.52 | 166 | 122,245 | 2,220 | 8.20 | 701.65 | 384.20 | 9.74 | 220.02 | 220.51 | 208.26 |
| 10/22/02 2:19 PM | 10.69 | 1.52 | 166 | 122,170 | 2,003 | 8.06 | 744.65 | 370.21 | 9.39 | 220.02 | 220.27 | 208.19 |
| 10/22/02 2:20 PM | 10.69 | 1.52 | 166 | 123,668 | 1,641 | 8.08 | 745.42 | 369.96 | 9.40 | 220.02 | 219.78 | 208.19 |
| 10/22/02 2:21 PM | 10.69 | 1.52 | 166 | 122,284 | 2,312 | 8.08 | 745.42 | 369.96 | 9.40 | 220.02 | 220.51 | 208.18 |
| 10/22/02 2:22 PM | 10.69 | 1.52 | 166 | 121,772 | 2,103 | 8.21 | 855.18 | 377.14 | 14.27 | 220.02 | 220.27 | 208.53 |
| 10/22/02 2:23 PM | 10.70 | 1.52 | 166 | 121,583 | 2,528 | 8.21 | 732.20 | 383.80 | 12.35 | 220.02 | 220.02 | 208.68 |
| 10/22/02 2:24 PM | 10.70 | 1.52 | 166 | 120,532 | 2,140 | 8.26 | 811.56 | 366.80 | 11.13 | 220.02 | 220.51 | 208.21 |
| 10/22/02 2:25 PM | 10.70 | 1.52 | 166 | 122,701 | 2,052 | 8.19 | 767.69 | 370.64 | 12.01 | 220.02 | 220.02 | 208.79 |
| 10/22/02 2:26 PM | 10.70 | 1.52 | 166 | 121,311 | 2,103 | 8.22 | 817.78 | 373.20 | 12.05 | 220.02 | 220.02 | 208.48 |
| 10/22/02 2:27 PM | 10.70 | 1.52 | 166 | 123,693 | 1,882 | 8.16 | 812.69 | 370.34 | 11.58 | 220.02 | 220.27 | 209.09 |
| 10/22/02 2:28 PM | 10.70 | 1.52 | 166 | 124,112 | 1,948 | 8.17 | 840.46 | 378.23 | 13.39 | 220.02 | 219.78 | 208.56 |
| 10/22/02 2:29 PM | 10.70 | 1.52 | 166 | 120,553 | 2,007 | 8.11 | 799.72 | 373.56 | 12.25 | 220.02 | 220.02 | 208.17 |
| 10/22/02 2:30 PM | 10.70 | 1.52 | 166 | 122,059 | 1,882 | 8.04 | 943.84 | 360.43 | 13.34 | 220.02 | 219.78 | 208.50 |
| 10/22/02 2:31 PM | 10.70 | 1.52 | 166 | 123,162 | 2,326 | 8.13 | 1053.51 | 361.75 | 16.48 | 220.02 | 219.54 | 208.40 |
| 10/22/02 2:32 PM | 10.70 | 1.52 | 166 | 124,766 | 2,129 | 8.30 | 850.78 | 379.56 | 15.14 | 220.02 | 220.02 | 207.88 |
| 10/22/02 2:33 PM | 10.70 | 1.52 | 166 | 122,397 | 1,783 | 8.06 | 728.22 | 384.70 | 15.60 | 220.02 | 219.54 | 208.60 |
| 10/22/02 2:34 PM | 10.70 | 1.52 | 166 | 121,004 | 1,879 | 8.22 | 848.85 | 384.21 | 16.68 | 220.02 | 219.54 | 208.07 |
| 10/22/02 2:35 PM | 10.70 | 1.52 | 166 | 121,502 | 1,967 | 8.31 | 707.46 | 400.40 | 15.07 | 220.02 | 220.02 | 208.30 |
| 10/22/02 2:36 PM | 10.70 | 1.52 | 166 | 120,326 | 1,901 | 8.20 | 809.09 | 413.63 | 15.22 | 220.02 | 219.54 | 208.46 |
| 10/22/02 2:37 PM | 10.70 | 1.52 | 166 | 119,561 | 2,173 | 8.12 | 684.09 | 405.16 | 14.04 | 220.02 | 219.54 | 207.88 |
| 10/22/02 2:38 PM | 10.70 | 1.52 | 166 | 120,667 | 2,363 | 8.01 | 828.36 | 383.46 | 14.75 | 220.02 | 220.02 | 208.18 |
| 10/22/02 2:39 PM | 10.70 | 1.52 | 166 | 121,092 | 1,882 | 8.16 | 1104.38 | 381.31 | 19.16 | 220.02 | 219.54 | 208.18 |
| 10/22/02 2:40 PM | 10.70 | 1.52 | 166 | 122,770 | 2,363 | 8.11 | 1385.45 | 391.98 | 22.74 | 220.02 | 220.02 | 207.88 |
| 10/22/02 2:41 PM | 10.70 | 1.52 | 166 | 123,188 | 2,074 | 8.09 | 1037.07 | 394.04 | 20.95 | 220.02 | 219.78 | 208.40 |
| 10/22/02 2:42 PM | 10.70 | 1.52 | 166 | 120,542 | 1,868 | 8.21 | 831.38 | 403.93 | 19.54 | 220.02 | 219.54 | 207.94 |
| 10/22/02 2:43 PM | 10.70 | 1.52 | 166 | 119,809 | 1,842 | 8.13 | 760.01 | 404.12 | 15.58 | 220.02 | 220.02 | 207.91 |
| 10/22/02 2:44 PM | 10.70 | 1.52 | 166 | 120,190 | 1,978 | 8.09 | 850.95 | 395.72 | 16.34 | 220.02 | 219.54 | 208.49 |
| 10/22/02 2:45 PM | 10.70 | 1.52 | 166 | 119,270 | 1,820 | 8.16 | 883.82 | 400.89 | 16.57 | 220.02 | 219.54 | 208.19 |
| 10/22/02 2:46 PM | 10.70 | 1.52 | 166 | 121,112 | 1,472 | 8.08 | 757.69 | 442.96 | 13.38 | 220.02 | 219.78 | 208.31 |
| 10/22/02 2:47 PM | 10.70 | 1.52 | 166 | 121,326 | 1,666 | 8.07 | 888.08 | 468.40 | 15.72 | 220.02 | 219.29 | 208.18 |
| 10/22/02 2:48 PM | 10.70 | 1.52 | 166 | 123,407 | 2,268 | 8.01 | 891.51 | 478.79 | 16.03 | 220.02 | 219.54 | 208.18 |
| 10/22/02 2:49 PM | 10.70 | 1.52 | 166 | 122,611 | 1,707 | 8.14 | 1077.32 | 470.56 | 14.88 | 220.02 | 219.78 | 208.48 |
| 10/22/02 2:50 PM | 10.70 | 1.52 | 166 | 124,424 | 2,422 | 8.14 | 747.87 | 483.17 | 14.77 | 220.02 | 219.54 | 208.83 |

STR02589

D-10

11/22/02

SEA0353

AGCS2M001950

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 2:51 PM | 10.70 | 1.52 | 166 | 124,968 | 2,711 | 8.10 | 731.98 | 485.21 | 12.37 | 220.02 | 219.78 | 208.20 |
| 10/22/02 2:52 PM | 10.70 | 1.52 | 166 | 121,219 | 2,110 | 8.08 | 865.58 | 460.18 | 12.74 | 220.02 | 219.78 | 208.18 |
| 10/22/02 2:53 PM | 10.70 | 1.52 | 166 | 123,123 | 2,114 | 8.16 | 854.42 | 476.58 | 13.66 | 220.02 | 219.29 | 207.73 |
| 10/22/02 2:54 PM | 10.70 | 1.52 | 166 | 123,395 | 2,180 | 8.12 | 736.93 | 474.16 | 10.81 | 220.02 | 219.78 | 207.97 |
| 10/22/02 2:55 PM | 10.70 | 1.52 | 166 | 123,722 | 2,033 | 8.18 | 770.61 | 456.29 | 11.66 | 220.02 | 219.54 | 208.18 |
| 10/22/02 2:56 PM | 10.70 | 1.52 | 166 | 121,041 | 1,670 | 8.19 | 791.80 | 442.50 | 12.01 | 220.02 | 219.54 | 207.88 |
| 10/22/02 2:57 PM | 10.70 | 1.52 | 166 | 122,692 | 2,191 | 8.16 | 903.64 | 435.21 | 11.32 | 220.02 | 219.78 | 208.40 |
| 10/22/02 2:58 PM | 10.70 | 1.52 | 166 | 121,356 | 1,897 | 8.13 | 827.49 | 438.37 | 12.13 | 220.02 | 219.05 | 208.19 |
| 10/22/02 2:59 PM | 10.70 | 1.52 | 166 | 123,828 | 1,783 | 8.24 | 839.78 | 441.72 | 11.01 | 220.02 | 219.54 | 207.88 |
| 10/22/02 3:00 PM | 10.70 | 1.52 | 166 | 127,931 | 1,811 | 8.02 | 728.95 | 459.30 | 11.34 | 220.02 | 219.54 | 208.30 |
| 10/22/02 3:01 PM | 10.70 | 1.52 | 168 | 123,341 | 2,162 | 7.97 | 1000.87 | 436.93 | 10.88 | 220.02 | 219.05 | 208.18 |
| 10/22/02 3:02 PM | 10.70 | 1.52 | 166 | 120,193 | 2,129 | 8.00 | 1382.33 | 426.83 | 11.38 | 220.02 | 219.54 | 207.87 |
| 10/22/02 3:03 PM | 10.70 | 1.52 | 166 | 122,293 | 2,341 | 8.06 | 1120.53 | 454.43 | 15.04 | 220.02 | 219.29 | 208.28 |
| 10/22/02 3:04 PM | 10.70 | 1.52 | 166 | 121,603 | 1,853 | 8.04 | 874.50 | 457.31 | 14.10 | 220.02 | 219.05 | 208.15 |
| 10/22/02 3:05 PM | 10.70 | 1.52 | 166 | 121,629 | 1,882 | 8.16 | 843.11 | 459.38 | 10.70 | 220.02 | 219.78 | 207.88 |
| 10/22/02 3:06 PM | 10.70 | 1.52 | 166 | 122,667 | 2,099 | 8.13 | 762.53 | 455.93 | 11.01 | 220.02 | 219.29 | 208.26 |
| 10/22/02 3:07 PM | 10.70 | 1.52 | 166 | 123,236 | 2,392 | 8.17 | 768.58 | 443.52 | 10.04 | 220.02 | 219.54 | 207.90 |
| 10/22/02 3:08 PM | 10.70 | 1.52 | 166 | 123,527 | 2,568 | 8.13 | 762.41 | 433.88 | 7.71 | 220.02 | 219.54 | 208.35 |
| 10/22/02 3:09 PM | 10.70 | 1.52 | 166 | 123,273 | 2,140 | 8.13 | 803.70 | 433.03 | 8.68 | 220.02 | 219.29 | 208.21 |
| 10/22/02 3:10 PM | 10.70 | 1.52 | 166 | 123,836 | 2,125 | 8.17 | 885.24 | 421.64 | 7.64 | 220.02 | 219.78 | 208.10 |
| 10/22/02 3:11 PM | 10.70 | 1.52 | 166 | 124,566 | 1,860 | 8.18 | 851.30 | 427.17 | 8.99 | 220.02 | 219.78 | 208.21 |
| 10/22/02 3:12 PM | 10.70 | 1.52 | 166 | 123,273 | 1,915 | 8.28 | 714.76 | 450.27 | 7.07 | 220.02 | 219.29 | 208.79 |
| 10/22/02 3:13 PM | 10.70 | 1.52 | 166 | 126,160 | 2,180 | 8.37 | 585.65 | 458.83 | 6.31 | 220.02 | 219.78 | 208.49 |
| 10/22/02 3:14 PM | 10.70 | 1.52 | 168 | 126,190 | 2,403 | 8.25 | 599.93 | 445.70 | 4.73 | 220.02 | 220.02 | 208.95 |
| 10/22/02 3:15 PM | 10.70 | 1.52 | 166 | 124,567 | 1,888 | 8.16 | 665.64 | 439.56 | 5.87 | 220.02 | 219.78 | 208.49 |
| 10/22/02 3:16 PM | 10.70 | 1.52 | 166 | 125,513 | 1,802 | 8.10 | 821.89 | 428.45 | 5.83 | 220.02 | 219.78 | 208.32 |
| 10/22/02 3:17 PM | 10.70 | 1.52 | 168 | 122,514 | 2,187 | 8.10 | 831.14 | 428.34 | 7.99 | 220.02 | 220.27 | 208.79 |
| 10/22/02 3:18 PM | 10.70 | 1.52 | 166 | 122,139 | 1,377 | 8.24 | 838.46 | 425.02 | 12.21 | 220.02 | 220.02 | 208.86 |
| 10/22/02 3:19 PM | 10.70 | 1.52 | 166 | 123,024 | 2,228 | 8.20 | 709.79 | 425.54 | 11.00 | 220.02 | 220.02 | 208.52 |
| 10/22/02 3:20 PM | 10.70 | 1.52 | 166 | 122,503 | 2,422 | 8.20 | 708.18 | 425.52 | 10.99 | 220.02 | 220.51 | 208.79 |
| 10/22/02 3:21 PM | 10.70 | 1.52 | 166 | 124,831 | 1,908 | 8.20 | 708.18 | 425.52 | 10.99 | 220.02 | 220.02 | 208.79 |
| 10/22/02 3:22 PM | 10.70 | 1.52 | 166 | 121,288 | 1,483 | 8.31 | 751.87 | 408.03 | 11.72 | 220.02 | 220.27 | 208.20 |
| 10/22/02 3:23 PM | 10.70 | 1.52 | 166 | 126,522 | 1,677 | 8.28 | 664.58 | 407.09 | 10.76 | 220.02 | 220.51 | 208.76 |
| 10/22/02 3:24 PM | 10.70 | 1.52 | 166 | 123,016 | 1,783 | 8.31 | 634.87 | 406.80 | 12.52 | 220.02 | 219.78 | 208.49 |
| 10/22/02 3:25 PM | 10.70 | 1.52 | 166 | 123,568 | 2,583 | 8.18 | 675.73 | 396.39 | 11.14 | 220.02 | 220.02 | 208.18 |
| 10/22/02 3:26 PM | 10.70 | 1.52 | 166 | 124,480 | 1,813 | 8.11 | 844.96 | 377.52 | 11.61 | 220.02 | 220.51 | 208.85 |
| 10/22/02 3:27 PM | 10.70 | 1.52 | 166 | 123,496 | 2,065 | 8.01 | 1016.03 | 362.76 | 15.62 | 220.02 | 220.02 | 208.54 |
| 10/22/02 3:28 PM | 10.70 | 1.52 | 166 | 120,645 | 1,831 | 8.20 | 1262.86 | 352.85 | 14.62 | 220.02 | 220.02 | 208.28 |
| 10/22/02 3:29 PM | 10.70 | 1.52 | 166 | 121,153 | 2,553 | 8.30 | 928.47 | 378.42 | 13.50 | 220.02 | 220.51 | 208.34 |
| 10/22/02 3:30 PM | 10.70 | 1.52 | 166 | 125,430 | 1,578 | 8.25 | 738.61 | 376.94 | 12.41 | 220.02 | 220.02 | 208.80 |
| 10/22/02 3:31 PM | 10.70 | 1.52 | 166 | 123,721 | 2,704 | 8.20 | 618.15 | 383.35 | 10.67 | 220.02 | 219.78 | 208.79 |
| 10/22/02 3:32 PM | 10.70 | 1.52 | 166 | 124,645 | 1,985 | 8.10 | 944.08 | 366.79 | 9.55 | 220.02 | 220.27 | 208.75 |
| 10/22/02 3:33 PM | 10.70 | 1.52 | 166 | 126,430 | 1,824 | 8.03 | 1368.59 | 349.57 | 11.00 | 220.02 | 220.02 | 208.79 |
| 10/22/02 3:34 PM | 10.70 | 1.52 | 166 | 123,788 | 1,794 | 8.11 | 1424.32 | 358.67 | 12.49 | 220.02 | 219.54 | 208.79 |
| 10/22/02 3:35 PM | 10.70 | 1.52 | 166 | 125,863 | 2,125 | 8.20 | 1194.94 | 378.99 | 10.59 | 220.02 | 220.27 | 209.02 |
| 10/22/02 3:36 PM | 10.70 | 1.52 | 166 | 125,362 | 2,061 | 8.26 | 1110.63 | 370.66 | 10.95 | 220.02 | 220.02 | 209.10 |
| 10/22/02 3:37 PM | 10.70 | 1.52 | 166 | 125,341 | 1,443 | 8.12 | 1250.27 | 366.80 | 12.92 | 220.02 | 219.78 | 208.49 |
| 10/22/02 3:38 PM | 10.69 | 1.52 | 166 | 123,642 | 1,754 | 8.10 | 1377.99 | 368.60 | 11.44 | 220.02 | 220.27 | 208.72 |
| 10/22/02 3:39 PM | 10.69 | 1.52 | 166 | 123,215 | 1,520 | 8.07 | 1256.92 | 398.43 | 12.22 | 220.02 | 219.78 | 208.79 |
| 10/22/02 3:40 PM | 10.69 | 1.52 | 166 | 121,704 | 2,242 | 8.15 | 1216.65 | 410.15 | 11.85 | 220.02 | 219.78 | 208.19 |
| 10/22/02 3:41 PM | 10.69 | 1.52 | 166 | 120,885 | 2,162 | 8.14 | 1103.70 | 410.10 | 10.80 | 220.02 | 220.02 | 208.60 |
| 10/22/02 3:42 PM | 10.69 | 1.52 | 166 | 121,046 | 2,356 | 8.06 | 1054.63 | 413.26 | 12.28 | 220.02 | 219.54 | 208.49 |
| 10/22/02 3:43 PM | 10.69 | 1.52 | 166 | 124,374 | 1,849 | 8.08 | 1183.60 | 406.44 | 10.40 | 220.02 | 220.27 | 208.49 |
| 10/22/02 3:44 PM | 10.69 | 1.52 | 166 | 123,730 | 2,081 | 8.14 | 1256.25 | 423.23 | 11.91 | 220.02 | 220.02 | 208.80 |
| 10/22/02 3:45 PM | 10.69 | 1.52 | 166 | 120,476 | 1,915 | 8.28 | 923.78 | 453.28 | 13.15 | 220.02 | 219.78 | 208.52 |
| 10/22/02 3:46 PM | 10.69 | 1.52 | 166 | 123,755 | 1,888 | 8.21 | 733.64 | 452.44 | 10.52 | 220.02 | 220.02 | 208.49 |
| 10/22/02 3:47 PM | 10.69 | 1.52 | 166 | 124,120 | 1,688 | 8.19 | 779.11 | 440.89 | 9.84 | 220.02 | 219.78 | 208.57 |
| 10/22/02 3:48 PM | 10.69 | 1.52 | 166 | 122,179 | 2,070 | 8.09 | 876.10 | 427.08 | 9.51 | 220.02 | 219.78 | 208.20 |
| 10/22/02 3:49 PM | 10.69 | 1.52 | 166 | 122,893 | 1,802 | 8.20 | 1011.30 | 419.24 | 9.21 | 220.02 | 220.27 | 208.48 |
| 10/22/02 3:50 PM | 10.69 | 1.52 | 166 | 125,136 | 1,868 | 8.13 | 866.77 | 430.60 | 11.09 | 220.02 | 220.02 | 209.06 |
| 10/22/02 3:51 PM | 10.69 | 1.52 | 166 | 123,545 | 2,480 | 8.19 | 864.65 | 429.09 | 9.98 | 220.02 | 219.78 | 208.79 |
| 10/22/02 3:52 PM | 10.69 | 1.52 | 166 | 122,810 | 2,315 | 8.20 | 915.18 | 423.08 | 8.35 | 219.78 | 220.27 | 208.72 |
| 10/22/02 3:53 PM | 10.69 | 1.52 | 166 | 122,438 | 1,904 | 8.22 | 820.96 | 424.73 | 8.71 | 219.78 | 220.02 | 209.09 |
| 10/22/02 3:54 PM | 10.69 | 1.52 | 166 | 123,905 | 2,007 | 8.32 | 825.54 | 426.16 | 8.70 | 219.78 | 219.78 | 208.69 |
| 10/22/02 3:55 PM | 10.69 | 1.52 | 166 | 124,009 | 1,600 | 8.49 | 684.06 | 436.76 | 8.04 | 219.78 | 220.27 | 208.56 |
| 10/22/02 3:56 PM | 10.69 | 1.52 | 166 | 122,752 | 1,791 | 8.48 | 603.07 | 446.45 | 7.37 | 219.78 | 220.02 | 208.79 |
| 10/22/02 3:57 PM | 10.69 | 1.52 | 166 | 122,064 | 1,930 | 8.48 | 546.05 | 444.47 | 7.65 | 219.78 | 219.78 | 208.79 |
| 10/22/02 3:58 PM | 10.69 | 1.52 | 166 | 122,962 | 2,007 | 8.39 | 552.27 | 441.35 | 7.00 | 219.78 | 220.27 | 208.79 |
| 10/22/02 3:59 PM | 10.69 | 1.52 | 166 | 123,830 | 2,433 | 0.00 | 1.01 | 0.81 | 0.01 | 219.78 | 220.27 | 209.10 |
| 10/22/02 4:00 PM | 10.69 | 1.52 | 166 | 123,464 | 1,703 | 0.00 | 0.00 | 0.00 | 0.00 | 219.78 | 219.78 | 208.79 |
| 10/22/02 4:01 PM | 10.69 | 1.52 | 166 | 124,838 | 1,842 | 3.06 | 720.68 | 267.99 | 9.39 | 219.78 | 220.27 | 208.49 |
| 10/22/02 4:02 PM | 10.69 | 1.52 | 166 | 124,841 | 1,648 | 8.25 | 897.10 | 427.58 | 15.25 | 219.78 | 220.51 | 209.09 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/22/02 8:15 PM | 10.90 | 1.52 | 173 | 126,548 | 1,974 | 8.12 | 1143.31 | 544.45 | 19.60 | 220.51 | 220.27 | 209.20 |
| 10/22/02 8:16 PM | 10.90 | 1.52 | 173 | 124,797 | 1,978 | 8.13 | 912.17 | 543.98 | 15.97 | 220.51 | 220.76 | 209.37 |
| 10/22/02 8:17 PM | 10.90 | 1.52 | 173 | 125,955 | 2,140 | 8.01 | 830.11 | 534.42 | 16.10 | 220.51 | 220.27 | 209.54 |
| 10/22/02 8:18 PM | 10.90 | 1.52 | 173 | 124,848 | 1,901 | 8.03 | 951.78 | 524.40 | 17.10 | 220.51 | 220.27 | 209.17 |
| 10/22/02 8:19 PM | 10.90 | 1.52 | 173 | 124,891 | 2,239 | 8.15 | 1103.10 | 518.95 | 15.92 | 220.51 | 220.51 | 209.40 |
| 10/22/02 8:20 PM | 10.90 | 1.52 | 173 | 125,920 | 1,897 | 7.99 | 1535.31 | 517.44 | 21.68 | 220.51 | 220.27 | 209.35 |
| 10/22/02 8:21 PM | 10.90 | 1.52 | 173 | 123,898 | 2,209 | 7.85 | 1338.16 | 494.76 | 18.64 | 220.51 | 220.02 | 208.80 |
| 10/22/02 8:22 PM | 10.90 | 1.52 | 173 | 125,353 | 2,181 | 8.01 | 1337.55 | 501.51 | 18.33 | 220.51 | 220.76 | 209.25 |
| 10/22/02 8:23 PM | 10.85 | 1.52 | 173 | 122,365 | 1,501 | 7.97 | 1116.26 | 509.72 | 19.72 | 220.51 | 220.27 | 209.22 |
| 10/22/02 8:24 PM | 10.85 | 1.52 | 173 | 122,650 | 2,121 | 8.04 | 1068.20 | 499.25 | 16.85 | 220.51 | 220.27 | 208.80 |
| 10/22/02 8:25 PM | 10.85 | 1.52 | 173 | 125,751 | 1,608 | 8.01 | 1056.88 | 495.74 | 14.76 | 220.51 | 220.51 | 209.39 |
| 10/22/02 8:26 PM | 10.85 | 1.52 | 173 | 123,012 | 2,605 | 8.03 | 956.01 | 502.09 | 15.32 | 220.51 | 219.78 | 209.16 |
| 10/22/02 8:27 PM | 10.85 | 1.52 | 173 | 120,177 | 1,776 | 8.13 | 1048.62 | 495.96 | 14.70 | 220.51 | 220.27 | 208.39 |
| 10/22/02 8:28 PM | 10.85 | 1.56 | 173 | 124,800 | 2,044 | 8.13 | 870.56 | 509.54 | 16.26 | 220.51 | 220.02 | 209.09 |
| 10/22/02 8:29 PM | 10.85 | 1.56 | 173 | 123,962 | 2,099 | 8.09 | 840.16 | 504.31 | 17.00 | 220.51 | 219.54 | 208.84 |
| 10/22/02 8:30 PM | 10.85 | 1.56 | 173 | 120,537 | 1,783 | 8.24 | 816.21 | 505.78 | 16.19 | 220.51 | 220.27 | 208.48 |
| 10/22/02 8:31 PM | 10.85 | 1.56 | 173 | 122,298 | 1,996 | 8.19 | 743.93 | 508.96 | 17.70 | 220.51 | 219.78 | 208.79 |
| 10/22/02 8:32 PM | 10.85 | 1.56 | 173 | 121,481 | 2,304 | 8.17 | 659.65 | 516.39 | 17.37 | 220.51 | 219.78 | 208.66 |
| 10/22/02 8:33 PM | 10.85 | 1.56 | 173 | 122,693 | 1,868 | 8.00 | 686.63 | 498.44 | 17.40 | 220.51 | 220.02 | 209.20 |
| 10/22/02 8:34 PM | 10.85 | 1.56 | 173 | 123,947 | 1,868 | 7.98 | 794.91 | 477.66 | 21.84 | 220.51 | 219.78 | 209.49 |
| 10/22/02 8:35 PM | 10.85 | 1.52 | 173 | 122,336 | 2,187 | 7.92 | 883.15 | 471.66 | 21.03 | 220.51 | 219.78 | 209.10 |
| 10/22/02 8:36 PM | 10.85 | 1.52 | 173 | 125,855 | 2,352 | 7.85 | 1063.79 | 445.71 | 22.89 | 220.51 | 220.02 | 209.34 |
| 10/22/02 8:37 PM | 10.85 | 1.52 | 173 | 123,909 | 1,813 | 7.85 | 1334.09 | 426.98 | 25.99 | 220.51 | 219.54 | 208.81 |
| 10/22/02 8:38 PM | 10.90 | 1.52 | 173 | 124,226 | 1,600 | 7.83 | 1296.92 | 438.27 | 23.55 | 220.51 | 220.27 | 209.04 |
| 10/22/02 8:39 PM | 10.90 | 1.52 | 173 | 122,448 | 2,110 | 8.00 | 1220.34 | 432.36 | 24.23 | 220.51 | 219.78 | 209.23 |
| 10/22/02 8:40 PM | 10.90 | 1.52 | 173 | 123,047 | 1,974 | 8.05 | 1034.18 | 459.00 | 24.02 | 220.51 | 219.78 | 208.79 |
| 10/22/02 8:41 PM | 10.90 | 1.52 | 173 | 125,757 | 1,644 | 7.95 | 945.24 | 463.70 | 20.43 | 220.51 | 220.27 | 209.07 |
| 10/22/02 8:42 PM | 10.90 | 1.52 | 173 | 127,285 | 1,824 | 7.81 | 1102.11 | 458.56 | 22.75 | 220.51 | 219.78 | 209.39 |
| 10/22/02 8:43 PM | 10.90 | 1.52 | 173 | 124,016 | 1,853 | 8.07 | 1094.01 | 456.38 | 21.25 | 220.51 | 219.78 | 208.80 |
| 10/22/02 8:44 PM | 10.90 | 1.52 | 173 | 126,001 | 2,663 | 8.04 | 956.89 | 462.21 | 18.83 | 220.51 | 220.27 | 208.79 |
| 10/22/02 8:45 PM | 10.90 | 1.52 | 173 | 123,657 | 2,129 | 8.04 | 919.40 | 466.65 | 20.08 | 220.51 | 219.78 | 208.80 |
| 10/22/02 8:46 PM | 10.90 | 1.52 | 173 | 122,036 | 2,014 | 7.99 | 922.86 | 467.53 | 18.75 | 220.51 | 220.02 | 209.49 |
| 10/22/02 8:47 PM | 10.90 | 1.52 | 173 | 121,323 | 1,813 | 8.05 | 1019.36 | 467.53 | 18.60 | 220.51 | 220.27 | 209.09 |
| 10/22/02 8:48 PM | 10.90 | 1.52 | 173 | 121,865 | 1,860 | 8.02 | 959.94 | 472.11 | 21.20 | 220.51 | 219.78 | 209.10 |
| 10/22/02 8:49 PM | 10.90 | 1.52 | 173 | 122,722 | 1,802 | 8.07 | 971.81 | 466.79 | 18.38 | 220.51 | 220.27 | 209.10 |
| 10/22/02 8:50 PM | 10.90 | 1.52 | 173 | 125,197 | 2,121 | 7.98 | 1042.27 | 459.33 | 17.05 | 220.51 | 220.27 | 209.30 |
| 10/22/02 8:51 PM | 10.90 | 1.52 | 173 | 125,522 | 2,180 | 8.01 | 1047.32 | 457.93 | 18.64 | 220.51 | 219.78 | 209.45 |
| 10/22/02 8:52 PM | 10.90 | 1.52 | 173 | 125,706 | 1,853 | 7.98 | 976.70 | 462.35 | 15.82 | 220.51 | 220.51 | 209.12 |
| 10/22/02 8:53 PM | 10.85 | 1.52 | 173 | 124,162 | 1,842 | 7.92 | 992.75 | 460.56 | 15.08 | 220.51 | 220.51 | 209.12 |
| 10/22/02 8:54 PM | 10.85 | 1.52 | 173 | 124,483 | 1,959 | 7.98 | 1184.25 | 451.76 | 16.68 | 220.51 | 220.02 | 209.09 |
| 10/22/02 8:55 PM | 10.85 | 1.52 | 173 | 125,552 | 2,132 | 8.01 | 1028.48 | 456.25 | 15.04 | 220.51 | 220.27 | 208.79 |
| 10/22/02 8:56 PM | 10.85 | 1.52 | 173 | 123,045 | 1,736 | 7.92 | 1049.39 | 451.48 | 14.56 | 220.51 | 220.51 | 209.67 |
| 10/22/02 8:57 PM | 10.85 | 1.52 | 173 | 122,880 | 1,849 | 7.99 | 1043.62 | 451.97 | 16.24 | 220.51 | 220.02 | 209.41 |
| 10/22/02 8:58 PM | 10.85 | 1.52 | 173 | 121,144 | 2,140 | 8.04 | 1013.93 | 456.36 | 14.62 | 220.51 | 220.51 | 209.10 |
| 10/22/02 8:59 PM | 10.85 | 1.52 | 173 | 125,508 | 2,169 | 8.04 | 1014.04 | 456.65 | 14.35 | 220.51 | 220.51 | 209.71 |
| 10/22/02 9:00 PM | 10.85 | 1.52 | 173 | 125,215 | 1,853 | 8.04 | 1014.04 | 456.65 | 14.35 | 220.51 | 219.78 | 209.40 |
| 10/22/02 9:01 PM | 10.85 | 1.52 | 173 | 125,689 | 2,129 | 8.05 | 930.30 | 455.63 | 13.81 | 220.51 | 220.27 | 209.33 |
| 10/22/02 9:02 PM | 10.85 | 1.52 | 173 | 123,401 | 1,996 | 8.09 | 980.15 | 449.47 | 15.31 | 220.51 | 220.27 | 209.40 |
| 10/22/02 9:03 PM | 10.85 | 1.52 | 173 | 124,159 | 1,564 | 8.15 | 846.41 | 451.23 | 15.26 | 220.51 | 220.02 | 209.35 |
| 10/22/02 9:04 PM | 10.85 | 1.52 | 173 | 124,530 | 1,831 | 8.18 | 748.78 | 455.32 | 12.07 | 220.51 | 220.76 | 209.10 |
| Averages | 10.81 | 1.52 | 166.57 | 124,008 | 2,007 | 8.12 | 834.64 | 515.73 | 12.36 | 220.48 | 220.51 | 209.28 |

Ash Grove Cement
Seattle, WA

Run 4 Raw Mill On

1

| [redacted] | Kiln Coal tons/hour 41C.WF1.Ft | Calciner Coal tons/hour 41C.WF2.Ft | Kiln feed rate tons/hour 412.PG3/4.FC1 | One Minute Average Flow (DSCFM) 413.2K1.F10K | Tire feed Rate in pounds/hour 415.BW1.Ft | One Minute Average O2 (%) 413.2K1.A10K | One Minute Average CO (ppm) 413.2K1.A20K | One Minute Average NOx (ppm) 413.2K1.A30K | One Minute Average SO2 (ppm) 413.2K1.A40K | Three Hour Rolling Ave. (%) PCMACT | Baghouse Inlet Temp Deg f 413.BF1.TH | Stack Gas Temperature Deg f 413.2K1.TH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 10:15 AM | 11.62 | 1.51 | 165 | 118,772 | 1,589 | 8.19 | 1622.43 | 622.15 | 76.04 | 242.25 | 306.72 | 245.06 |
| 10/23/02 10:16 AM | 11.84 | 1.51 | 165 | 120,007 | 1,838 | 8.61 | 882.32 | 684.34 | 51.97 | 242.74 | 308.18 | 245.32 |
| 10/23/02 10:17 AM | 11.84 | 1.51 | 165 | 119,062 | 0 | 8.65 | 431.41 | 704.05 | 38.11 | 243.22 | 309.89 | 245.42 |
| 10/23/02 10:18 AM | 11.84 | 1.51 | 165 | 119,271 | 0 | 8.64 | 385.72 | 705.81 | 33.20 | 243.71 | 312.09 | 246.16 |
| 10/23/02 10:19 AM | 11.32 | 1.51 | 165 | 119,346 | 0 | 8.37 | 369.53 | 700.83 | 31.94 | 244.20 | 313.06 | 246.34 |
| 10/23/02 10:20 AM | 10.55 | 1.51 | 165 | 119,138 | 0 | 8.37 | 369.35 | 700.85 | 31.93 | 244.69 | 312.82 | 247.17 |
| 10/23/02 10:21 AM | 10.55 | 1.51 | 165 | 119,399 | 0 | 8.37 | 369.35 | 700.85 | 31.93 | 244.69 | 309.89 | 247.58 |
| 10/23/02 10:22 AM | 10.04 | 1.51 | 165 | 118,775 | 0 | 8.17 | 383.09 | 718.58 | 38.36 | 243.71 | 305.98 | 246.34 |
| 10/23/02 10:23 AM | 10.25 | 1.52 | 165 | 121,810 | 1,945 | 8.10 | 410.67 | 726.71 | 47.30 | 243.47 | 303.30 | 246.41 |
| 10/23/02 10:24 AM | 10.55 | 1.52 | 165 | 118,792 | 1,856 | 8.02 | 398.75 | 727.24 | 50.82 | 243.96 | 301.10 | 245.07 |
| 10/23/02 10:25 AM | 10.55 | 1.52 | 165 | 120,825 | 2,528 | 7.82 | 422.71 | 712.07 | 57.14 | 244.44 | 298.17 | 245.03 |
| 10/23/02 10:26 AM | 10.55 | 1.52 | 165 | 117,144 | 1,758 | 7.72 | 449.41 | 689.73 | 64.26 | 244.93 | 296.70 | 244.28 |
| 10/23/02 10:27 AM | 10.55 | 1.52 | 165 | 118,266 | 2,055 | 7.37 | 557.02 | 636.62 | 72.40 | 245.42 | 295.48 | 243.24 |
| 10/23/02 10:28 AM | 10.55 | 1.52 | 165 | 118,557 | 1,688 | 7.68 | 997.09 | 585.61 | 84.80 | 245.67 | 294.26 | 243.64 |
| 10/23/02 10:29 AM | 10.55 | 1.52 | 165 | 118,912 | 1,428 | 7.77 | 661.33 | 633.38 | 76.42 | 246.15 | 291.09 | 242.88 |
| 10/23/02 10:30 AM | 10.55 | 1.52 | 165 | 115,968 | 2,480 | 7.93 | 689.44 | 621.37 | 74.72 | 246.64 | 288.16 | 242.67 |
| 10/23/02 10:31 AM | 10.75 | 1.52 | 165 | 120,196 | 1,937 | 7.88 | 649.34 | 628.13 | 76.05 | 246.89 | 286.69 | 242.25 |
| 10/23/02 10:32 AM | 10.75 | 1.52 | 165 | 117,964 | 2,374 | 7.97 | 481.35 | 652.07 | 74.83 | 247.37 | 285.71 | 242.33 |
| 10/23/02 10:33 AM | 10.75 | 1.52 | 169 | 116,675 | 1,820 | 8.07 | 422.94 | 655.44 | 73.74 | 247.62 | 284.98 | 241.46 |
| 10/23/02 10:34 AM | 10.75 | 1.52 | 169 | 118,043 | 2,301 | 8.03 | 416.88 | 662.18 | 72.98 | 248.11 | 284.49 | 242.29 |
| 10/23/02 10:35 AM | 10.75 | 1.52 | 169 | 120,146 | 2,143 | 7.99 | 422.83 | 653.68 | 73.60 | 248.35 | 285.23 | 241.79 |
| 10/23/02 10:36 AM | 10.75 | 1.52 | 169 | 120,275 | 2,025 | 7.72 | 451.31 | 629.01 | 73.30 | 248.84 | 285.23 | 242.35 |
| 10/23/02 10:37 AM | 10.75 | 1.52 | 169 | 119,087 | 2,601 | 7.85 | 542.36 | 614.66 | 79.43 | 249.08 | 286.20 | 242.42 |
| 10/23/02 10:38 AM | 10.75 | 1.52 | 169 | 118,675 | 2,304 | 7.73 | 505.95 | 616.65 | 78.18 | 249.57 | 285.23 | 242.34 |
| 10/23/02 10:39 AM | 10.75 | 1.52 | 169 | 120,120 | 1,660 | 7.71 | 529.60 | 602.03 | 79.63 | 249.82 | 284.00 | 242.67 |
| 10/23/02 10:40 AM | 10.75 | 1.52 | 169 | 120,280 | 2,187 | 7.73 | 586.83 | 589.42 | 81.76 | 250.31 | 283.76 | 242.90 |
| 10/23/02 10:41 AM | 10.75 | 1.52 | 169 | 120,504 | 1,937 | 7.84 | 588.27 | 582.97 | 81.16 | 250.55 | 284.88 | 243.19 |
| 10/23/02 10:42 AM | 10.75 | 1.52 | 169 | 121,239 | 2,074 | 7.80 | 529.47 | 586.25 | 77.02 | 251.04 | 286.69 | 243.21 |
| 10/23/02 10:43 AM | 10.75 | 1.52 | 169 | 119,255 | 2,121 | 7.70 | 549.42 | 581.42 | 75.93 | 251.28 | 287.42 | 243.52 |
| 10/23/02 10:44 AM | 10.75 | 1.52 | 169 | 118,893 | 2,912 | 7.56 | 687.11 | 564.43 | 79.72 | 251.77 | 286.94 | 243.93 |
| 10/23/02 10:45 AM | 10.75 | 1.52 | 169 | 119,942 | 1,809 | 7.72 | 814.36 | 570.57 | 84.27 | 252.01 | 286.45 | 243.15 |
| 10/23/02 10:46 AM | 10.75 | 1.52 | 169 | 118,859 | 1,996 | 7.77 | 842.71 | 596.48 | 81.14 | 252.50 | 285.47 | 243.46 |
| 10/23/02 10:47 AM | 10.75 | 1.52 | 169 | 119,253 | 2,151 | 7.80 | 569.14 | 622.14 | 75.78 | 252.75 | 286.45 | 243.03 |
| 10/23/02 10:48 AM | 10.75 | 1.52 | 169 | 121,134 | 1,853 | 7.72 | 530.75 | 641.85 | 72.41 | 253.24 | 286.94 | 243.81 |
| 10/23/02 10:49 AM | 10.75 | 1.52 | 169 | 119,110 | 2,025 | 7.80 | 575.09 | 628.07 | 61.53 | 253.48 | 287.91 | 241.83 |
| 10/23/02 10:50 AM | 10.75 | 1.52 | 169 | 118,362 | 2,176 | 7.74 | 595.89 | 624.61 | 60.62 | 253.97 | 288.89 | 240.85 |
| 10/23/02 10:51 AM | 10.75 | 1.52 | 169 | 119,942 | 2,279 | 7.68 | 594.25 | 630.76 | 58.27 | 254.46 | 289.87 | 240.91 |
| 10/23/02 10:52 AM | 10.75 | 1.52 | 169 | 117,469 | 1,985 | 7.50 | 693.60 | 602.78 | 58.77 | 254.70 | 289.62 | 240.54 |
| 10/23/02 10:53 AM | 10.75 | 1.52 | 169 | 119,289 | 2,025 | 7.47 | 867.58 | 574.72 | 63.19 | 255.19 | 290.11 | 241.19 |
| 10/23/02 10:54 AM | 10.75 | 1.52 | 169 | 118,633 | 1,959 | 7.46 | 1053.16 | 560.73 | 62.85 | 255.43 | 289.13 | 241.15 |
| 10/23/02 10:55 AM | 10.75 | 1.52 | 169 | 117,620 | 2,389 | 7.62 | 1049.21 | 574.61 | 62.52 | 255.92 | 289.13 | 241.34 |
| 10/23/02 10:56 AM | 10.75 | 1.52 | 169 | 115,957 | 2,403 | 7.66 | 782.72 | 584.86 | 60.05 | 256.17 | 288.16 | 240.54 |
| 10/23/02 10:57 AM | 10.75 | 1.52 | 169 | 117,755 | 1,656 | 7.54 | 742.80 | 583.63 | 55.70 | 256.65 | 287.42 | 241.14 |
| 10/23/02 10:58 AM | 10.75 | 1.52 | 169 | 115,063 | 2,323 | 7.48 | 839.34 | 577.63 | 59.09 | 257.14 | 286.94 | 240.82 |
| 10/23/02 10:59 AM | 10.75 | 1.52 | 169 | 117,105 | 1,967 | 7.49 | 1172.55 | 556.33 | 63.42 | 257.39 | 287.42 | 241.37 |
| 10/23/02 11:00 AM | 10.75 | 1.52 | 169 | 119,026 | 1,406 | 7.59 | 974.47 | 579.98 | 65.56 | 257.88 | 287.67 | 241.25 |
| 10/23/02 11:01 AM | 10.75 | 1.52 | 169 | 119,801 | 2,114 | 7.60 | 745.62 | 595.99 | 61.29 | 258.12 | 286.94 | 241.43 |
| 10/23/02 11:02 AM | 10.75 | 1.52 | 169 | 120,673 | 1,696 | 7.55 | 710.18 | 600.71 | 59.94 | 258.61 | 286.94 | 241.75 |
| 10/23/02 11:03 AM | 10.75 | 1.52 | 169 | 119,863 | 2,085 | 7.51 | 820.13 | 589.38 | 62.85 | 258.85 | 286.69 | 241.52 |
| 10/23/02 11:04 AM | 10.75 | 1.52 | 169 | 119,850 | 1,626 | 7.57 | 915.79 | 581.64 | 64.66 | 259.34 | 285.47 | 241.76 |
| 10/23/02 11:05 AM | 10.44 | 1.52 | 169 | 122,453 | 2,304 | 7.53 | 839.41 | 584.93 | 63.64 | 259.58 | 283.52 | 241.51 |
| 10/23/02 11:06 AM | 10.44 | 1.52 | 169 | 120,435 | 2,063 | 7.51 | 830.57 | 594.53 | 63.49 | 260.07 | 282.78 | 241.99 |
| 10/23/02 11:07 AM | 10.44 | 1.52 | 169 | 124,867 | 1,824 | 7.43 | 854.68 | 583.41 | 66.82 | 260.32 | 281.81 | 242.33 |
| 10/23/02 11:08 AM | 10.44 | 1.52 | 169 | 121,317 | 1,549 | 7.47 | 1192.96 | 561.56 | 69.53 | 260.81 | 281.32 | 241.74 |
| 10/23/02 11:09 AM | 10.44 | 1.52 | 169 | 122,751 | 2,429 | 7.37 | 1049.20 | 574.63 | 71.83 | 261.05 | 279.61 | 241.54 |
| 10/23/02 11:10 AM | 10.44 | 1.52 | 169 | 120,868 | 1,978 | 7.39 | 1614.08 | 544.03 | 72.92 | 261.29 | 277.90 | 240.84 |
| 10/23/02 11:11 AM | 10.44 | 1.52 | 169 | 119,594 | 1,677 | 7.49 | 1299.70 | 564.02 | 76.26 | 261.78 | 277.17 | 240.80 |
| 10/23/02 11:12 AM | 10.44 | 1.52 | 169 | 117,879 | 1,776 | 7.51 | 994.81 | 594.20 | 70.52 | 262.03 | 278.39 | 238.48 |
| 10/23/02 11:13 AM | 10.44 | 1.52 | 169 | 118,875 | 2,003 | 7.41 | 1313.59 | 568.27 | 72.41 | 262.27 | 278.88 | 237.73 |
| 10/23/02 11:14 AM | 10.44 | 1.52 | 169 | 118,588 | 1,406 | 7.56 | 1468.20 | 567.44 | 70.93 | 262.76 | 279.12 | 238.10 |
| 10/23/02 11:15 AM | 10.44 | 1.52 | 169 | 119,129 | 2,198 | 7.52 | 1129.77 | 581.42 | 70.53 | 263.00 | 278.63 | 237.84 |
| 10/23/02 11:16 AM | 10.44 | 1.52 | 169 | 120,131 | 2,458 | 7.39 | 1177.29 | 565.23 | 72.37 | 263.25 | 278.63 | 238.40 |
| 10/23/02 11:17 AM | 10.44 | 1.52 | 169 | 119,779 | 1,996 | 7.29 | 1990.90 | 523.82 | 78.59 | 263.74 | 278.63 | 237.95 |
| 10/23/02 11:18 AM | 10.44 | 1.52 | 169 | 117,891 | 1,736 | 7.35 | 2000.00 | 500.75 | 81.67 | 263.98 | 277.41 | 238.10 |
| 10/23/02 11:19 AM | 10.44 | 1.52 | 169 | 119,993 | 2,759 | 7.54 | 2000.00 | 518.67 | 80.35 | 264.22 | 276.43 | 237.18 |
| 10/23/02 11:20 AM | 10.44 | 1.52 | 169 | 119,009 | 1,890 | 7.54 | 2000.00 | 518.92 | 80.34 | 264.47 | 275.70 | 237.66 |
| 10/23/02 11:21 AM | 10.44 | 1.52 | 169 | 117,666 | 2,140 | 7.54 | 2000.00 | 518.93 | 80.34 | 264.71 | 275.21 | 236.90 |
| 10/23/02 11:22 AM | 10.44 | 1.52 | 169 | 118,212 | 2,257 | 7.85 | 641.48 | 647.62 | 67.70 | 264.96 | 274.73 | 237.18 |
| 10/23/02 11:23 AM | 10.44 | 1.56 | 169 | 119,756 | 1,809 | 7.78 | 550.53 | 625.70 | 70.03 | 265.20 | 273.50 | 236.58 |
| 10/23/02 11:24 AM | 10.44 | 1.56 | 169 | 119,463 | 2,014 | 7.67 | 628.85 | 618.24 | 71.01 | 265.45 | 272.53 | 236.87 |

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11/22/02

SEA0356

AGCS2M001953

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 11:25 AM | 10.44 | 1.56 | 169 | 121,471 | 2,209 | 7.82 | 575.95 | 631.27 | 74.23 | 265.69 | 271.31 | 237.13 |
| 10/23/02 11:26 AM | 10.44 | 1.47 | 169 | 119,067 | 1,571 | 7.86 | 569.98 | 633.54 | 71.21 | 265.93 | 271.06 | 236.73 |
| 10/23/02 11:27 AM | 10.44 | 1.33 | 169 | 118,913 | 2,334 | 7.85 | 1137.76 | 601.99 | 74.23 | 266.18 | 271.31 | 237.18 |
| 10/23/02 11:28 AM | 10.44 | 1.13 | 169 | 121,535 | 1,945 | 7.68 | 722.95 | 599.42 | 72.59 | 266.42 | 270.82 | 236.73 |
| 10/23/02 11:29 AM | 10.44 | 1.08 | 169 | 121,722 | 1,794 | 7.76 | 698.17 | 598.41 | 66.67 | 266.42 | 270.33 | 237.14 |
| 10/23/02 11:30 AM | 10.44 | 0.99 | 169 | 122,038 | 2,559 | 7.80 | 575.35 | 606.85 | 65.14 | 266.67 | 270.09 | 236.44 |
| 10/23/02 11:31 AM | 10.44 | 1.18 | 169 | 118,975 | 2,007 | 7.84 | 584.22 | 610.42 | 65.06 | 266.91 | 270.82 | 236.26 |
| 10/23/02 11:32 AM | 10.44 | 1.18 | 169 | 120,779 | 1,630 | 7.76 | 569.16 | 616.68 | 68.00 | 267.16 | 271.31 | 235.78 |
| 10/23/02 11:33 AM | 10.44 | 1.18 | 171 | 118,751 | 1,589 | 7.73 | 608.11 | 606.72 | 65.41 | 267.40 | 270.57 | 235.80 |
| 10/23/02 11:34 AM | 10.44 | 1.18 | 171 | 120,267 | 2,035 | 7.70 | 586.26 | 620.85 | 69.51 | 267.40 | 270.57 | 235.58 |
| 10/23/02 11:35 AM | 10.40 | 1.18 | 171 | 118,300 | 1,703 | 7.61 | 706.06 | 589.35 | 73.26 | 267.64 | 271.06 | 233.64 |
| 10/23/02 11:36 AM | 10.40 | 1.18 | 171 | 119,779 | 1,732 | 7.35 | 1075.20 | 559.77 | 77.01 | 267.89 | 272.04 | 233.20 |
| 10/23/02 11:37 AM | 10.40 | 1.18 | 171 | 117,321 | 1,685 | 7.36 | 1859.11 | 527.78 | 86.90 | 268.13 | 272.53 | 233.39 |
| 10/23/02 11:38 AM | 10.40 | 1.18 | 171 | 118,124 | 2,198 | 7.27 | 2000.00 | 476.04 | 90.46 | 268.13 | 273.26 | 233.21 |
| 10/23/02 11:39 AM | 10.40 | 1.18 | 171 | 117,803 | 2,257 | 7.35 | 2000.00 | 457.44 | 92.22 | 268.38 | 273.99 | 233.82 |
| 10/23/02 11:40 AM | 10.40 | 1.18 | 171 | 119,040 | 1,945 | 7.30 | 2000.00 | 471.71 | 93.39 | 268.62 | 275.46 | 233.52 |
| 10/23/02 11:41 AM | 10.40 | 1.18 | 171 | 118,846 | 2,114 | 7.35 | 2000.00 | 478.68 | 95.39 | 268.86 | 277.66 | 234.13 |
| 10/23/02 11:42 AM | 10.40 | 1.18 | 171 | 117,494 | 2,381 | 7.33 | 2000.00 | 506.92 | 86.98 | 269.11 | 278.39 | 233.52 |
| 10/23/02 11:43 AM | 10.40 | 1.21 | 171 | 118,567 | 2,158 | 7.40 | 2000.00 | 495.98 | 87.61 | 269.35 | 279.61 | 234.15 |
| 10/23/02 11:44 AM | 10.40 | 1.21 | 171 | 116,042 | 1,901 | 7.54 | 2000.00 | 497.85 | 86.58 | 269.35 | 279.61 | 233.83 |
| 10/23/02 11:45 AM | 10.40 | 1.32 | 171 | 117,466 | 2,114 | 8.07 | 1694.20 | 561.06 | 81.65 | 269.60 | 278.14 | 234.43 |
| 10/23/02 11:46 AM | 10.40 | 1.46 | 171 | 118,162 | 1,725 | 8.57 | 775.62 | 638.92 | 71.30 | 269.84 | 277.17 | 234.24 |
| 10/23/02 11:47 AM | 10.40 | 1.46 | 171 | 119,126 | 1,644 | 8.55 | 475.23 | 654.10 | 61.20 | 270.09 | 276.68 | 234.97 |
| 10/23/02 11:48 AM | 10.40 | 1.51 | 173 | 120,856 | 1,223 | 8.48 | 430.20 | 653.32 | 60.52 | 270.33 | 275.70 | 235.34 |
| 10/23/02 11:49 AM | 10.40 | 1.51 | 173 | 119,442 | 1,824 | 8.24 | 411.38 | 655.82 | 62.27 | 270.33 | 275.21 | 235.29 |
| 10/23/02 11:50 AM | 10.44 | 1.51 | 173 | 118,563 | 1,930 | 8.09 | 441.23 | 642.45 | 65.82 | 270.57 | 274.24 | 235.35 |
| 10/23/02 11:51 AM | 10.44 | 1.51 | 173 | 120,351 | 2,477 | 8.00 | 448.44 | 647.55 | 69.86 | 270.82 | 273.02 | 235.08 |
| 10/23/02 11:52 AM | 10.44 | 1.51 | 173 | 119,709 | 2,403 | 7.98 | 486.88 | 632.23 | 69.96 | 270.82 | 272.04 | 235.93 |
| 10/23/02 11:53 AM | 10.44 | 1.51 | 173 | 117,305 | 1,361 | 7.93 | 505.74 | 631.65 | 70.59 | 271.06 | 271.79 | 235.16 |
| 10/23/02 11:54 AM | 10.44 | 1.51 | 173 | 115,286 | 1,853 | 7.83 | 548.73 | 618.87 | 71.01 | 271.31 | 272.77 | 235.33 |
| 10/23/02 11:55 AM | 10.44 | 1.51 | 173 | 120,147 | 1,915 | 7.83 | 582.79 | 605.11 | 74.08 | 271.31 | 273.02 | 234.82 |
| 10/23/02 11:56 AM | 10.44 | 1.51 | 173 | 119,300 | 2,070 | 7.85 | 593.39 | 611.60 | 70.91 | 271.55 | 273.50 | 235.24 |
| 10/23/02 11:57 AM | 10.44 | 1.51 | 173 | 121,755 | 2,220 | 7.93 | 552.23 | 642.75 | 71.70 | 271.79 | 274.97 | 235.21 |
| 10/23/02 11:58 AM | 10.44 | 1.51 | 173 | 120,952 | 1,703 | 7.92 | 552.80 | 642.49 | 68.12 | 271.79 | 276.92 | 233.29 |
| 10/23/02 11:59 AM | 10.44 | 1.51 | 173 | 119,081 | 1,879 | 7.90 | 541.57 | 640.53 | 70.52 | 272.04 | 278.39 | 233.15 |
| 10/23/02 12:00 PM | 10.44 | 1.51 | 173 | 120,836 | 2,293 | 7.99 | 527.12 | 647.68 | 72.90 | 272.28 | 280.10 | 233.52 |
| 10/23/02 12:01 PM | 10.44 | 1.51 | 173 | 122,068 | 2,209 | 7.85 | 521.39 | 643.50 | 73.49 | 272.53 | 280.83 | 233.49 |
| 10/23/02 12:02 PM | 10.44 | 1.51 | 173 | 121,336 | 1,637 | 7.86 | 524.37 | 641.93 | 75.92 | 272.77 | 281.56 | 233.83 |
| 10/23/02 12:03 PM | 10.44 | 1.51 | 173 | 122,084 | 1,824 | 7.77 | 545.15 | 623.28 | 76.61 | 272.77 | 282.54 | 233.82 |
| 10/23/02 12:04 PM | 10.44 | 1.51 | 173 | 119,174 | 1,648 | 7.85 | 562.89 | 610.36 | 77.56 | 273.02 | 283.52 | 234.17 |
| 10/23/02 12:05 PM | 10.44 | 1.51 | 173 | 118,850 | 1,597 | 7.82 | 598.49 | 606.93 | 81.48 | 273.26 | 284.00 | 233.82 |
| 10/23/02 12:06 PM | 10.44 | 1.51 | 173 | 120,073 | 2,301 | 7.85 | 522.61 | 612.28 | 76.19 | 273.50 | 285.47 | 235.15 |
| 10/23/02 12:07 PM | 10.44 | 1.51 | 173 | 122,149 | 2,033 | 7.86 | 534.92 | 601.34 | 78.55 | 273.75 | 286.45 | 235.01 |
| 10/23/02 12:08 PM | 10.44 | 1.51 | 173 | 118,820 | 1,436 | 7.90 | 525.44 | 603.95 | 77.46 | 273.99 | 288.16 | 235.65 |
| 10/23/02 12:09 PM | 10.44 | 1.51 | 173 | 120,472 | 2,037 | 7.92 | 511.23 | 598.10 | 73.83 | 274.24 | 288.89 | 235.70 |
| 10/23/02 12:10 PM | 10.44 | 1.51 | 173 | 118,825 | 2,169 | 7.94 | 510.80 | 597.78 | 69.26 | 274.48 | 289.89 | 236.56 |
| 10/23/02 12:11 PM | 10.44 | 1.51 | 173 | 118,876 | 2,132 | 7.88 | 511.76 | 583.20 | 71.33 | 274.73 | 290.11 | 236.85 |
| 10/23/02 12:12 PM | 10.44 | 1.51 | 173 | 118,313 | 1,794 | 7.85 | 552.62 | 579.01 | 72.83 | 274.97 | 292.06 | 237.18 |
| 10/23/02 12:13 PM | 10.44 | 1.51 | 173 | 118,757 | 2,209 | 7.90 | 559.16 | 566.66 | 71.91 | 275.46 | 291.82 | 237.62 |
| 10/23/02 12:14 PM | 10.44 | 1.51 | 173 | 117,393 | 2,176 | 7.82 | 525.58 | 571.74 | 71.67 | 275.70 | 293.04 | 237.57 |
| 10/23/02 12:15 PM | 10.44 | 1.51 | 173 | 118,257 | 1,582 | 7.82 | 561.53 | 557.56 | 72.46 | 275.95 | 294.75 | 238.92 |
| 10/23/02 12:16 PM | 10.44 | 1.51 | 173 | 117,896 | 1,992 | 7.78 | 569.13 | 564.90 | 72.31 | 276.19 | 296.21 | 238.41 |
| 10/23/02 12:17 PM | 10.44 | 1.51 | 173 | 119,901 | 2,356 | 7.88 | 639.39 | 586.35 | 70.32 | 276.68 | 294.02 | 238.84 |
| 10/23/02 12:18 PM | 10.44 | 1.52 | 173 | 118,675 | 1,539 | 7.90 | 569.95 | 584.57 | 71.39 | 276.92 | 293.77 | 237.60 |
| 10/23/02 12:19 PM | 10.44 | 1.52 | 173 | 118,360 | 1,608 | 7.97 | 548.80 | 578.43 | 71.29 | 277.17 | 294.02 | 238.29 |
| 10/23/02 12:20 PM | 10.45 | 1.52 | 173 | 119,457 | 2,162 | 7.97 | 548.84 | 578.14 | 71.31 | 277.41 | 294.51 | 237.76 |
| 10/23/02 12:21 PM | 10.45 | 1.52 | 173 | 118,107 | 2,235 | 7.97 | 548.84 | 578.14 | 71.31 | 277.90 | 295.24 | 235.69 |
| 10/23/02 12:22 PM | 10.45 | 1.52 | 173 | 117,578 | 1,845 | 7.89 | 606.20 | 564.39 | 77.08 | 278.14 | 294.51 | 235.84 |
| 10/23/02 12:23 PM | 10.45 | 1.52 | 173 | 119,504 | 2,352 | 8.11 | 545.51 | 575.96 | 79.77 | 278.39 | 294.26 | 235.90 |
| 10/23/02 12:24 PM | 10.45 | 1.52 | 173 | 121,030 | 2,326 | 7.89 | 1039.71 | 550.37 | 82.97 | 278.53 | 294.51 | 235.93 |
| 10/23/02 12:25 PM | 10.45 | 1.52 | 173 | 119,081 | 1,945 | 8.04 | 621.83 | 565.86 | 80.45 | 278.88 | 294.51 | 235.96 |
| 10/23/02 12:26 PM | 10.45 | 1.52 | 173 | 120,136 | 1,600 | 7.90 | 512.98 | 577.66 | 74.62 | 279.37 | 294.02 | 235.44 |
| 10/23/02 12:27 PM | 10.45 | 1.52 | 173 | 121,379 | 1,800 | 8.09 | 518.50 | 576.65 | 74.48 | 279.61 | 293.77 | 235.91 |
| 10/23/02 12:28 PM | 10.45 | 1.52 | 173 | 121,018 | 2,103 | 7.90 | 489.41 | 578.98 | 71.44 | 279.85 | 292.55 | 235.35 |
| 10/23/02 12:29 PM | 10.45 | 1.52 | 173 | 121,293 | 1,714 | 8.04 | 528.36 | 575.49 | 72.52 | 280.10 | 292.06 | 235.68 |
| 10/23/02 12:30 PM | 10.45 | 1.52 | 173 | 121,537 | 1,996 | 7.96 | 496.76 | 579.40 | 74.75 | 280.34 | 290.84 | 235.39 |
| 10/23/02 12:31 PM | 10.45 | 1.52 | 173 | 120,494 | 2,301 | 7.90 | 493.11 | 568.01 | 71.17 | 280.59 | 289.87 | 235.96 |
| 10/23/02 12:32 PM | 10.45 | 1.52 | 173 | 120,801 | 2,191 | 7.78 | 525.12 | 553.82 | 71.79 | 280.83 | 290.11 | 235.85 |
| 10/23/02 12:33 PM | 10.45 | 1.52 | 173 | 120,353 | 1,926 | 7.76 | 580.51 | 548.89 | 73.02 | 281.07 | 291.82 | 235.96 |
| 10/23/02 12:34 PM | 10.45 | 1.52 | 173 | 118,477 | 1,765 | 7.70 | 625.31 | 547.74 | 69.07 | 281.32 | 291.58 | 235.98 |
| 10/23/02 12:35 PM | 10.44 | 1.52 | 173 | 117,290 | 1,978 | 7.82 | 641.54 | 553.63 | 67.42 | 281.81 | 292.06 | 235.96 |
| 10/23/02 12:36 PM | 10.44 | 1.52 | 173 | 119,673 | 1,776 | 7.83 | 621.36 | 557.48 | 64.87 | 282.05 | 293.04 | 236.26 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 12:37 PM | 10.44 | 1.52 | 173 | 120,811 | 1,919 | 7.67 | 568.61 | 558.63 | 78.69 | 282.30 | 294.51 | 236.61 |
| 10/23/02 12:38 PM | 10.44 | 1.52 | 173 | 120,436 | 2,044 | 7.60 | 658.12 | 566.03 | 79.39 | 282.54 | 295.48 | 238.51 |
| 10/23/02 12:39 PM | 10.44 | 1.52 | 173 | 117,539 | 2,220 | 7.49 | 728.39 | 550.92 | 76.10 | 282.78 | 296.97 | 237.58 |
| 10/23/02 12:40 PM | 10.44 | 1.52 | 173 | 119,312 | 1,871 | 7.64 | 1265.14 | 525.88 | 78.34 | 283.27 | 297.19 | 238.29 |
| 10/23/02 12:41 PM | 10.44 | 1.52 | 173 | 118,381 | 2,055 | 7.56 | 970.03 | 543.72 | 77.41 | 283.52 | 298.68 | 237.51 |
| 10/23/02 12:42 PM | 10.44 | 1.52 | 173 | 117,728 | 2,235 | 7.47 | 1279.26 | 521.50 | 75.00 | 283.76 | 300.37 | 236.57 |
| 10/23/02 12:43 PM | 10.44 | 1.52 | 173 | 118,951 | 2,158 | 7.56 | 1506.74 | 517.93 | 79.93 | 284.25 | 301.59 | 237.58 |
| 10/23/02 12:44 PM | 10.44 | 1.52 | 173 | 120,548 | 1,531 | 7.64 | 1735.27 | 504.39 | 77.91 | 284.49 | 301.59 | 236.27 |
| 10/23/02 12:45 PM | 10.44 | 1.52 | 173 | 119,076 | 1,985 | 7.61 | 1165.35 | 542.20 | 77.02 | 284.98 | 300.37 | 236.45 |
| 10/23/02 12:46 PM | 10.44 | 1.52 | 173 | 121,570 | 2,176 | 7.65 | 997.56 | 534.97 | 75.35 | 285.47 | 301.34 | 236.56 |
| 10/23/02 12:47 PM | 10.44 | 1.52 | 173 | 120,937 | 1,956 | 7.66 | 954.54 | 547.17 | 74.19 | 285.71 | 302.32 | 236.84 |
| 10/23/02 12:48 PM | 10.44 | 1.52 | 174 | 118,795 | 2,092 | 7.65 | 774.94 | 566.40 | 76.21 | 286.20 | 304.03 | 237.04 |
| 10/23/02 12:49 PM | 10.44 | 1.52 | 174 | 120,292 | 2,539 | 7.53 | 844.77 | 561.82 | 78.46 | 286.45 | 305.25 | 237.45 |
| 10/23/02 12:50 PM | 10.44 | 1.52 | 174 | 117,165 | 2,121 | 7.80 | 956.38 | 563.45 | 81.00 | 286.94 | 306.72 | 237.53 |
| 10/23/02 12:51 PM | 10.44 | 1.52 | 174 | 117,136 | 1,688 | 7.47 | 1074.30 | 564.55 | 80.73 | 287.18 | 307.20 | 237.75 |
| 10/23/02 12:52 PM | 10.44 | 1.52 | 174 | 119,323 | 2,480 | 7.61 | 1178.67 | 551.39 | 82.82 | 287.67 | 307.69 | 238.71 |
| 10/23/02 12:53 PM | 10.44 | 1.72 | 174 | 117,402 | 2,021 | 7.64 | 1166.31 | 555.79 | 82.04 | 287.91 | 307.94 | 238.82 |
| 10/23/02 12:54 PM | 10.44 | 1.51 | 174 | 116,991 | 2,209 | 7.79 | 862.41 | 577.20 | 81.40 | 288.16 | 309.89 | 239.35 |
| 10/23/02 12:55 PM | 10.44 | 1.39 | 174 | 118,501 | 1,685 | 7.88 | 753.35 | 590.50 | 79.84 | 288.40 | 311.11 | 239.58 |
| 10/23/02 12:56 PM | 10.44 | 1.34 | 174 | 118,692 | 2,121 | 7.83 | 594.49 | 614.14 | 76.49 | 288.64 | 312.33 | 240.47 |
| 10/23/02 12:57 PM | 10.44 | 1.01 | 174 | 117,367 | 1,959 | 7.73 | 583.21 | 611.97 | 76.25 | 288.64 | 312.33 | 240.71 |
| 10/23/02 12:58 PM | 10.44 | 1.01 | 174 | 118,566 | 1,611 | 7.57 | 617.49 | 608.38 | 79.86 | 288.89 | 314.29 | 241.12 |
| 10/23/02 12:59 PM | 10.44 | 1.36 | 174 | 116,132 | 2,003 | 7.33 | 1187.79 | 547.24 | 86.38 | 288.89 | 316.48 | 241.45 |
| 10/23/02 1:00 PM | 10.44 | 1.52 | 174 | 116,970 | 2,025 | 7.33 | 1998.48 | 466.45 | 105.03 | 289.13 | 318.44 | 241.64 |
| 10/23/02 1:01 PM | 10.44 | 1.52 | 174 | 118,655 | 2,021 | 7.27 | 2000.00 | 435.81 | 161.44 | 289.13 | 319.90 | 243.57 |
| 10/23/02 1:02 PM | 10.44 | 1.52 | 174 | 118,079 | 1,868 | 7.41 | 2000.00 | 414.23 | 189.95 | 289.38 | 322.83 | 242.74 |
| 10/23/02 1:03 PM | 10.44 | 1.52 | 176 | 115,384 | 2,341 | 8.05 | 2000.00 | 457.29 | 199.49 | 289.38 | 323.57 | 243.59 |
| 10/23/02 1:04 PM | 10.44 | 1.52 | 176 | 115,107 | 1,714 | 8.56 | 1018.56 | 572.40 | 121.76 | 289.62 | 325.27 | 242.41 |
| 10/23/02 1:05 PM | 10.44 | 1.52 | 176 | 117,424 | 2,257 | 8.46 | 765.08 | 612.74 | 94.33 | 289.62 | 326.01 | 243.89 |
| 10/23/02 1:06 PM | 10.44 | 1.52 | 176 | 118,751 | 2,114 | 8.06 | 521.19 | 605.50 | 90.17 | 289.87 | 326.50 | 243.08 |
| 10/23/02 1:07 PM | 10.44 | 1.52 | 176 | 118,421 | 2,169 | 7.66 | 602.61 | 576.21 | 91.55 | 290.11 | 326.50 | 241.46 |
| 10/23/02 1:08 PM | 10.44 | 1.52 | 176 | 120,857 | 2,081 | 7.55 | 798.82 | 563.77 | 100.24 | 290.11 | 327.47 | 242.04 |
| 10/23/02 1:09 PM | 10.44 | 1.52 | 175 | 117,373 | 1,743 | 7.49 | 890.66 | 557.16 | 105.65 | 290.35 | 326.74 | 242.10 |
| 10/23/02 1:10 PM | 10.44 | 1.52 | 176 | 117,171 | 2,092 | 7.44 | 1586.88 | 528.99 | 107.29 | 290.35 | 326.50 | 242.82 |
| 10/23/02 1:11 PM | 10.44 | 1.52 | 175 | 115,726 | 1,948 | 7.54 | 1365.56 | 534.24 | 111.88 | 290.60 | 325.75 | 242.68 |
| 10/23/02 1:12 PM | 10.44 | 1.52 | 176 | 117,103 | 1,949 | 7.55 | 1108.58 | 531.78 | 109.22 | 290.60 | 324.79 | 242.95 |
| 10/23/02 1:13 PM | 10.44 | 1.52 | 176 | 114,503 | 1,813 | 7.64 | 996.03 | 536.83 | 111.38 | 290.84 | 323.57 | 243.09 |
| 10/23/02 1:14 PM | 10.44 | 1.52 | 176 | 119,997 | 1,619 | 7.53 | 1041.53 | 533.12 | 109.23 | 290.84 | 323.08 | 243.07 |
| 10/23/02 1:15 PM | 10.44 | 1.52 | 176 | 119,257 | 1,838 | 7.68 | 969.16 | 537.34 | 104.55 | 290.84 | 322.83 | 243.59 |
| 10/23/02 1:16 PM | 10.44 | 1.52 | 176 | 116,866 | 1,761 | 7.59 | 842.98 | 542.14 | 106.69 | 291.09 | 322.59 | 243.82 |
| 10/23/02 1:17 PM | 10.44 | 1.28 | 176 | 114,669 | 2,293 | 7.65 | 808.71 | 545.60 | 103.94 | 291.09 | 321.12 | 243.95 |
| 10/23/02 1:18 PM | 10.44 | 1.14 | 176 | 118,683 | 2,070 | 7.46 | 852.55 | 532.52 | 104.38 | 291.09 | 318.88 | 243.69 |
| 10/23/02 1:19 PM | 10.44 | 1.01 | 176 | 118,512 | 2,180 | 7.45 | 930.06 | 540.13 | 104.87 | 291.09 | 317.46 | 244.21 |
| 10/23/02 1:20 PM | 10.44 | 1.27 | 176 | 115,065 | 2,176 | 7.45 | 931.62 | 540.29 | 104.88 | 291.33 | 318.19 | 244.50 |
| 10/23/02 1:21 PM | 10.44 | 1.47 | 176 | 115,113 | 1,866 | 7.45 | 931.62 | 540.29 | 104.88 | 291.33 | 320.15 | 244.80 |
| 10/23/02 1:22 PM | 10.44 | 1.47 | 176 | 116,991 | 2,506 | 7.48 | 1392.74 | 513.92 | 109.86 | 291.33 | 320.88 | 245.12 |
| 10/23/02 1:23 PM | 10.44 | 1.47 | 176 | 117,532 | 1,948 | 7.42 | 1245.64 | 529.34 | 105.72 | 291.33 | 322.34 | 246.03 |
| 10/23/02 1:24 PM | 10.44 | 1.47 | 176 | 119,623 | 1,926 | 7.27 | 1713.41 | 500.81 | 109.16 | 291.58 | 323.57 | 246.57 |
| 10/23/02 1:25 PM | 10.44 | 1.47 | 176 | 120,829 | 1,783 | 7.31 | 1999.89 | 451.11 | 113.10 | 291.58 | 324.30 | 245.47 |
| 10/23/02 1:26 PM | 10.44 | 1.47 | 176 | 120,654 | 2,063 | 7.43 | 2000.00 | 435.51 | 118.15 | 291.82 | 324.05 | 246.06 |
| 10/23/02 1:27 PM | 10.44 | 1.47 | 176 | 118,838 | 2,557 | 8.23 | 2000.00 | 505.38 | 114.95 | 292.06 | 325.76 | 245.12 |
| 10/23/02 1:28 PM | 10.44 | 1.47 | 176 | 118,114 | 2,070 | 8.64 | 1183.78 | 582.26 | 94.43 | 292.06 | 326.50 | 246.32 |
| 10/23/02 1:29 PM | 10.44 | 1.47 | 176 | 118,628 | 2,070 | 8.15 | 560.73 | 585.10 | 84.79 | 292.31 | 329.91 | 245.18 |
| 10/23/02 1:30 PM | 10.44 | 1.47 | 176 | 119,752 | 1,827 | 7.88 | 559.96 | 564.16 | 89.38 | 292.55 | 332.60 | 243.92 |
| 10/23/02 1:31 PM | 10.44 | 1.47 | 176 | 119,110 | 1,837 | 7.84 | 620.46 | 559.75 | 94.06 | 292.80 | 333.33 | 244.49 |
| 10/23/02 1:32 PM | 10.44 | 1.47 | 176 | 121,188 | 2,063 | 7.88 | 641.65 | 561.96 | 97.14 | 293.04 | 332.60 | 244.51 |
| Averages | 10.52 | 1.47 | 171.28 | 119,039 | 1,938 | 7.76 | 879.96 | 582.44 | 78.32 | 270.75 | 293.96 | 239.48 |

Ash Grove Cement
Seattle, WA

Run 5 Raw Mill On



| [redacted] | Kiln Coal tons/hour 41C.WF1.FR | Calciner Coal tons/hour 41C.WF2.FR | Kiln feed rate tons/hour 41LPC2/LFC1 | One Minute Average Flow (DSCFM) 413.2K1.FROK | Tire feed Rate in pounds/hour 41F.SW1.FR | One Minute Average O2 (%) 413.2K1.MROK | One Minute Average CO (ppm) 413.2K1.AIBOK | One Minute Average NOx (ppm) 413.2K1.AIBOK | One Minute Average SO2 (ppm) 413.2K1.AIBOK | Three Hour Rolling Ave. (%) PSMACT | Baghouse Inlet Temp Deg f 413.BFI.TR | Stack Gas Temperature Deg f 413.2K1.TR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 2:20 PM | 10.45 | 1.22 | 178 | 114,264 | 2,578 | 7.46 | 993.90 | 404.15 | 134.37 | 307.94 | 346.03 | 257.63 |
| 10/23/02 2:21 PM | 10.45 | 1.22 | 178 | 118,438 | 2,187 | 7.46 | 993.90 | 404.15 | 134.37 | 308.42 | 345.79 | 258.53 |
| 10/23/02 2:22 PM | 10.45 | 1.22 | 178 | 116,023 | 1,776 | 7.85 | 1148.04 | 400.80 | 145.94 | 308.67 | 348.28 | 258.27 |
| 10/23/02 2:23 PM | 10.45 | 1.56 | 178 | 119,086 | 2,014 | 8.88 | 843.80 | 425.19 | 137.30 | 309.16 | 346.76 | 259.04 |
| 10/23/02 2:24 PM | 10.45 | 1.02 | 178 | 117,369 | 1,794 | 9.10 | 561.70 | 456.05 | 108.93 | 309.65 | 346.52 | 258.28 |
| 10/23/02 2:25 PM | 10.45 | 1.22 | 178 | 115,689 | 2,140 | 8.73 | 489.91 | 458.35 | 100.75 | 309.89 | 347.01 | 258.85 |
| 10/23/02 2:26 PM | 10.45 | 1.32 | 174 | 118,373 | 1,978 | 8.02 | 488.97 | 454.73 | 106.50 | 310.38 | 347.50 | 259.07 |
| 10/23/02 2:27 PM | 10.45 | 1.41 | 174 | 120,791 | 1,930 | 7.72 | 588.62 | 446.51 | 121.08 | 310.87 | 347.25 | 259.13 |
| 10/23/02 2:28 PM | 10.45 | 1.41 | 174 | 119,745 | 2,132 | 7.68 | 681.45 | 447.25 | 130.74 | 311.11 | 348.72 | 259.99 |
| 10/23/02 2:29 PM | 10.45 | 1.41 | 174 | 118,111 | 2,007 | 7.39 | 805.94 | 422.47 | 140.03 | 311.60 | 349.21 | 260.07 |
| 10/23/02 2:30 PM | 10.45 | 1.41 | 174 | 117,047 | 2,063 | 7.39 | 1917.47 | 377.25 | 142.36 | 312.09 | 347.74 | 260.40 |
| 10/23/02 2:31 PM | 10.45 | 1.41 | 174 | 118,293 | 2,044 | 7.39 | 2000.00 | 332.30 | 142.48 | 312.58 | 346.03 | 260.21 |
| 10/23/02 2:32 PM | 10.45 | 1.41 | 174 | 117,962 | 2,440 | 7.82 | 2000.00 | 375.81 | 148.60 | 312.82 | 345.30 | 260.60 |
| 10/23/02 2:33 PM | 10.45 | 1.41 | 174 | 116,243 | 2,110 | 7.91 | 1162.23 | 421.84 | 133.07 | 313.31 | 344.32 | 261.39 |
| 10/23/02 2:34 PM | 10.45 | 1.41 | 174 | 115,155 | 1,655 | 7.91 | 684.83 | 424.82 | 122.20 | 313.80 | 343.35 | 260.67 |
| 10/23/02 2:35 PM | 10.45 | 1.41 | 174 | 113,780 | 1,901 | 7.69 | 599.43 | 424.38 | 120.87 | 314.04 | 341.88 | 261.01 |
| 10/23/02 2:36 PM | 10.45 | 1.41 | 174 | 114,190 | 2,110 | 7.65 | 538.62 | 429.59 | 116.37 | 314.53 | 341.39 | 260.86 |
| 10/23/02 2:37 PM | 10.45 | 1.41 | 174 | 115,464 | 2,162 | 7.51 | 726.01 | 410.92 | 122.88 | 315.02 | 340.66 | 261.96 |
| 10/23/02 2:38 PM | 10.45 | 1.41 | 174 | 113,066 | 2,147 | 7.61 | 519.76 | 410.86 | 128.74 | 315.26 | 340.66 | 259.81 |
| 10/23/02 2:39 PM | 10.45 | 1.41 | 174 | 116,977 | 1,901 | 7.52 | 897.14 | 409.28 | 131.82 | 315.75 | 340.90 | 259.16 |
| 10/23/02 2:40 PM | 10.45 | 1.41 | 174 | 117,282 | 2,081 | 7.57 | 923.06 | 399.40 | 132.27 | 316.00 | 340.17 | 260.07 |
| 10/23/02 2:41 PM | 10.45 | 1.41 | 174 | 116,784 | 1,981 | 7.52 | 903.37 | 400.44 | 132.50 | 316.48 | 340.17 | 260.03 |
| 10/23/02 2:42 PM | 10.45 | 1.42 | 174 | 117,221 | 1,714 | 7.49 | 1104.02 | 381.48 | 135.86 | 316.73 | 340.90 | 260.68 |
| 10/23/02 2:43 PM | 10.45 | 1.42 | 174 | 116,487 | 1,992 | 7.58 | 1187.70 | 380.02 | 140.63 | 317.22 | 340.90 | 260.27 |
| 10/23/02 2:44 PM | 10.45 | 1.42 | 174 | 116,740 | 2,044 | 7.62 | 877.18 | 394.56 | 126.92 | 317.46 | 340.66 | 260.87 |
| 10/23/02 2:45 PM | 10.45 | 1.42 | 174 | 116,491 | 1,963 | 7.70 | 842.48 | 405.45 | 126.16 | 317.70 | 340.90 | 260.38 |
| 10/23/02 2:46 PM | 10.45 | 1.42 | 174 | 118,053 | 2,901 | 7.58 | 752.01 | 419.00 | 130.89 | 318.19 | 343.10 | 261.14 |
| 10/23/02 2:47 PM | 10.45 | 1.42 | 174 | 112,497 | 1,996 | 7.61 | 761.03 | 419.14 | 132.72 | 318.44 | 345.79 | 260.96 |
| 10/23/02 2:48 PM | 10.45 | 1.42 | 174 | 115,336 | 2,586 | 7.58 | 870.61 | 410.28 | 133.93 | 318.93 | 347.99 | 262.09 |
| 10/23/02 2:49 PM | 10.45 | 1.42 | 174 | 115,032 | 2,151 | 7.59 | 848.75 | 416.01 | 136.36 | 319.41 | 349.69 | 262.21 |
| 10/23/02 2:50 PM | 10.45 | 1.42 | 174 | 115,530 | 1,501 | 7.60 | 922.84 | 415.26 | 133.47 | 319.66 | 350.87 | 262.11 |
| 10/23/02 2:51 PM | 10.45 | 1.42 | 174 | 114,567 | 2,257 | 7.73 | 784.31 | 423.84 | 133.07 | 320.15 | 351.40 | 262.41 |
| 10/23/02 2:52 PM | 10.45 | 1.42 | 174 | 115,987 | 1,919 | 7.72 | 698.32 | 435.79 | 133.88 | 320.63 | 351.16 | 262.52 |
| 10/23/02 2:53 PM | 10.45 | 1.42 | 174 | 115,239 | 1,688 | 7.71 | 679.66 | 434.34 | 136.83 | 321.12 | 350.92 | 262.52 |
| 10/23/02 2:54 PM | 10.45 | 1.42 | 174 | 116,389 | 1,749 | 7.51 | 702.45 | 428.81 | 139.41 | 321.37 | 350.67 | 263.04 |
| 10/23/02 2:55 PM | 10.45 | 1.42 | 174 | 116,188 | 2,356 | 7.55 | 896.48 | 415.98 | 143.93 | 321.86 | 350.67 | 263.93 |
| 10/23/02 2:56 PM | 10.45 | 1.42 | 176 | 116,796 | 2,037 | 7.48 | 841.04 | 429.15 | 145.76 | 322.34 | 348.23 | 264.76 |
| 10/23/02 2:57 PM | 10.45 | 1.42 | 176 | 115,128 | 2,173 | 7.43 | 1041.15 | 416.65 | 142.10 | 322.83 | 347.50 | 263.43 |
| 10/23/02 2:58 PM | 10.45 | 1.42 | 176 | 115,970 | 1,813 | 7.36 | 1515.38 | 399.52 | 158.40 | 323.08 | 346.52 | 263.84 |
| 10/23/02 2:59 PM | 10.45 | 1.42 | 176 | 114,181 | 1,761 | 7.38 | 1992.33 | 385.50 | 159.55 | 323.57 | 347.50 | 262.63 |
| 10/23/02 3:00 PM | 10.45 | 1.42 | 176 | 115,587 | 2,345 | 7.29 | 1866.92 | 384.04 | 168.02 | 323.81 | 348.23 | 264.05 |
| 10/23/02 3:01 PM | 10.45 | 1.42 | 176 | 114,815 | 1,688 | 7.47 | 2000.00 | 376.74 | 160.84 | 324.30 | 348.47 | 262.96 |
| 10/23/02 3:02 PM | 10.34 | 1.42 | 176 | 119,893 | 1,948 | 7.50 | 1834.48 | 389.52 | 150.70 | 324.54 | 348.23 | 261.26 |
| 10/23/02 3:03 PM | 10.34 | 1.42 | 176 | 116,352 | 1,906 | 7.55 | 1184.77 | 412.75 | 156.18 | 325.03 | 347.50 | 261.65 |
| 10/23/02 3:04 PM | 10.34 | 1.42 | 176 | 116,840 | 1,959 | 7.47 | 1063.61 | 419.84 | 162.68 | 325.27 | 348.23 | 262.10 |
| 10/23/02 3:05 PM | 10.34 | 1.42 | 176 | 116,988 | 2,228 | 7.52 | 1132.22 | 415.68 | 160.83 | 325.76 | 348.23 | 262.51 |
| 10/23/02 3:06 PM | 10.34 | 1.42 | 176 | 117,140 | 1,732 | 7.48 | 961.27 | 426.90 | 155.97 | 326.01 | 347.99 | 262.19 |
| 10/23/02 3:07 PM | 10.34 | 1.42 | 176 | 115,578 | 2,033 | 7.47 | 1106.19 | 415.70 | 159.89 | 326.50 | 346.52 | 262.82 |
| 10/23/02 3:08 PM | 10.34 | 1.42 | 176 | 115,332 | 1,707 | 7.58 | 1008.16 | 434.20 | 152.24 | 326.74 | 344.57 | 261.63 |
| 10/23/02 3:09 PM | 10.34 | 1.42 | 176 | 114,943 | 1,638 | 7.46 | 830.02 | 442.85 | 148.58 | 326.98 | 344.57 | 262.18 |
| 10/23/02 3:10 PM | 10.34 | 1.42 | 176 | 113,958 | 2,418 | 7.50 | 907.59 | 433.27 | 154.62 | 327.47 | 344.81 | 261.90 |
| 10/23/02 3:11 PM | 10.34 | 1.42 | 176 | 116,473 | 1,959 | 7.39 | 1018.61 | 425.45 | 154.46 | 327.72 | 345.05 | 263.08 |
| 10/23/02 3:12 PM | 10.34 | 1.43 | 176 | 116,572 | 1,681 | 7.47 | 1251.96 | 410.85 | 157.81 | 327.96 | 345.54 | 263.13 |
| 10/23/02 3:13 PM | 10.34 | 1.43 | 176 | 114,051 | 2,264 | 7.68 | 1229.73 | 422.33 | 158.35 | 328.21 | 344.57 | 263.45 |
| 10/23/02 3:14 PM | 10.34 | 1.43 | 176 | 116,379 | 1,798 | 7.61 | 1552.72 | 442.20 | 146.01 | 328.69 | 344.08 | 264.01 |
| 10/23/02 3:15 PM | 10.34 | 1.43 | 176 | 117,961 | 1,842 | 7.69 | 886.67 | 454.36 | 144.68 | 328.94 | 344.32 | 264.04 |
| 10/23/02 3:16 PM | 10.34 | 1.43 | 176 | 115,279 | 1,959 | 7.62 | 705.15 | 462.09 | 145.70 | 329.18 | 344.81 | 264.35 |
| 10/23/02 3:17 PM | 10.34 | 1.43 | 176 | 115,290 | 1,992 | 7.50 | 795.14 | 444.82 | 146.85 | 329.43 | 345.54 | 264.69 |
| 10/23/02 3:18 PM | 10.34 | 1.43 | 176 | 115,624 | 1,842 | 7.52 | 1004.28 | 436.12 | 143.28 | 329.67 | 344.32 | 264.90 |
| 10/23/02 3:19 PM | 10.34 | 1.43 | 176 | 116,003 | 2,037 | 7.43 | 1052.60 | 441.27 | 147.29 | 329.91 | 343.83 | 265.68 |
| 10/23/02 3:20 PM | 10.34 | 1.43 | 176 | 115,944 | 2,671 | 7.43 | 1051.89 | 441.39 | 147.37 | 330.16 | 344.08 | 265.54 |
| 10/23/02 3:21 PM | 10.34 | 1.43 | 176 | 116,134 | 1,838 | 7.43 | 1051.89 | 441.39 | 147.37 | 330.40 | 342.12 | 255.11 |
| 10/23/02 3:22 PM | 10.34 | 1.61 | 176 | 115,529 | 2,143 | 7.42 | 1074.38 | 451.02 | 148.42 | 330.89 | 343.10 | 264.29 |
| 10/23/02 3:23 PM | 10.34 | 1.81 | 176 | 116,920 | 1,992 | 7.44 | 1127.86 | 445.13 | 160.08 | 331.14 | 345.90 | 265.36 |
| 10/23/02 3:24 PM | 10.34 | 1.69 | 176 | 116,264 | 1,809 | 7.60 | 1105.60 | 451.29 | 162.60 | 331.38 | 346.76 | 263.82 |
| 10/23/02 3:25 PM | 10.34 | 1.55 | 176 | 114,695 | 2,021 | 7.62 | 925.80 | 473.33 | 149.83 | 331.62 | 347.25 | 262.83 |
| 10/23/02 3:26 PM | 10.34 | 1.50 | 178 | 116,820 | 1,831 | 7.54 | 937.31 | 464.27 | 145.67 | 331.87 | 348.23 | 263.13 |
| 10/23/02 3:27 PM | 10.34 | 1.50 | 178 | 118,362 | 2,196 | 7.38 | 1026.99 | 455.49 | 157.29 | 332.11 | 348.47 | 263.12 |
| 10/23/02 3:28 PM | 10.34 | 1.42 | 178 | 118,040 | 2,052 | 7.36 | 1188.51 | 447.60 | 163.60 | 332.60 | 347.99 | 264.01 |
| 10/23/02 3:29 PM | 10.34 | 1.42 | 178 | 116,841 | 1,897 | 7.59 | 1469.18 | 443.94 | 148.81 | 332.84 | 346.03 | 263.14 |
| 10/23/02 3:30 PM | 10.34 | 1.42 | 178 | 115,697 | 2,323 | 7.76 | 936.07 | 466.21 | 142.42 | 333.09 | 345.30 | 263.74 |
| 10/23/02 3:31 PM | 10.34 | 1.42 | 178 | 114,719 | 2,121 | 8.01 | 654.60 | 478.95 | 143.54 | 333.33 | 346.28 | 263.43 |
| 10/23/02 3:32 PM | 10.35 | 1.42 | 178 | 116,280 | 2,007 | 7.57 | 528.76 | 489.40 | 140.97 | 333.82 | 346.52 | 264.34 |
| 10/23/02 3:33 PM | 10.35 | 1.42 | 178 | 115,459 | 1,754 | 7.32 | 779.47 | 456.13 | 139.41 | 334.07 | 346.28 | 263.78 |
| 10/23/02 3:34 PM | 10.35 | 1.42 | 178 | 115,548 | 1,776 | 7.22 | 1952.23 | 378.85 | 157.69 | 334.31 | 347.25 | 264.02 |
| 10/23/02 3:35 PM | 10.35 | 1.42 | 178 | 113,508 | 2,345 | 7.20 | 2000.00 | 344.40 | 185.29 | 334.80 | 348.96 | 264.31 |
| 10/23/02 3:36 PM | 10.35 | 1.42 | 178 | 116,120 | 1,890 | 7.18 | 2000.00 | 328.53 | 193.59 | 335.04 | 348.72 | 264.95 |
| 10/23/02 3:37 PM | 10.35 | 1.42 | 178 | 112,757 | 1,871 | 7.22 | 2000.00 | 315.72 | 193.50 | 335.29 | 349.21 | 265.15 |
| 10/23/02 3:38 PM | 10.35 | 1.42 | 178 | 114,176 | 2,044 | 7.21 | 2000.00 | 305.37 | 200.00 | 335.53 | 350.43 | 265.23 |

STR02589

D-19

11/22/02

SEA0359

AGCS2M001956

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 3:39 PM | 10.35 | 1.42 | 178 | 115,202 | 2,363 | 7.22 | 2000.00 | 302.45 | 200.00 | 336.02 | 350.43 | 265.87 |
| 10/23/02 3:40 PM | 10.35 | 1.42 | 178 | 114,316 | 1,608 | 7.46 | 2000.00 | 316.89 | 176.85 | 336.26 | 349.21 | 265.61 |
| 10/23/02 3:41 PM | 10.35 | 1.42 | 178 | 115,000 | 2,235 | 7.73 | 2000.00 | 384.30 | 161.35 | 336.51 | 349.21 | 266.66 |
| 10/23/02 3:42 PM | 10.35 | 1.42 | 178 | 115,737 | 1,978 | 7.97 | 1014.52 | 416.10 | 150.19 | 336.75 | 349.94 | 266.97 |
| 10/23/02 3:43 PM | 10.35 | 1.42 | 178 | 115,538 | 2,110 | 7.84 | 651.19 | 438.53 | 140.84 | 337.00 | 349.94 | 267.08 |
| 10/23/02 3:44 PM | 10.35 | 1.42 | 178 | 117,834 | 1,597 | 7.59 | 844.14 | 439.34 | 128.33 | 337.24 | 348.96 | 266.34 |
| 10/23/02 3:45 PM | 10.35 | 1.42 | 178 | 116,387 | 2,304 | 7.43 | 905.29 | 431.32 | 142.18 | 337.48 | 349.45 | 266.12 |
| 10/23/02 3:46 PM | 10.35 | 1.42 | 178 | 116,035 | 1,897 | 7.39 | 1057.06 | 425.27 | 156.70 | 337.97 | 349.21 | 267.12 |
| 10/23/02 3:47 PM | 10.34 | 1.42 | 178 | 116,158 | 1,948 | 7.46 | 1301.53 | 424.01 | 161.19 | 338.22 | 349.94 | 265.11 |
| 10/23/02 3:48 PM | 10.34 | 1.42 | 178 | 115,498 | 1,553 | 7.41 | 1560.81 | 414.56 | 146.78 | 338.46 | 351.40 | 264.04 |
| 10/23/02 3:49 PM | 10.34 | 1.42 | 178 | 116,761 | 1,560 | 7.51 | 1350.69 | 424.76 | 150.18 | 338.71 | 353.85 | 264.85 |
| 10/23/02 3:50 PM | 10.34 | 1.42 | 178 | 116,306 | 2,575 | 7.36 | 1303.41 | 423.69 | 162.12 | 338.95 | 355.07 | 264.63 |
| 10/23/02 3:51 PM | 10.34 | 1.42 | 178 | 115,462 | 2,480 | 7.50 | 1239.50 | 436.03 | 153.11 | 339.19 | 356.29 | 264.99 |
| 10/23/02 3:52 PM | 10.34 | 1.42 | 178 | 117,969 | 1,765 | 7.52 | 1180.73 | 430.07 | 145.48 | 339.44 | 357.51 | 264.92 |
| 10/23/02 3:53 PM | 10.34 | 1.42 | 178 | 116,891 | 2,099 | 7.48 | 984.37 | 442.47 | 154.26 | 339.68 | 358.00 | 265.57 |
| 10/23/02 3:54 PM | 10.34 | 1.42 | 178 | 118,704 | 1,842 | 7.49 | 1069.34 | 437.84 | 159.20 | 339.93 | 355.31 | 265.26 |
| 10/23/02 3:55 PM | 10.34 | 1.42 | 178 | 117,011 | 2,539 | 7.63 | 947.27 | 447.64 | 137.82 | 340.17 | 353.85 | 265.87 |
| 10/23/02 3:56 PM | 10.34 | 1.42 | 178 | 114,051 | 2,239 | 7.58 | 777.51 | 460.61 | 135.51 | 340.42 | 355.56 | 265.57 |
| 10/23/02 3:57 PM | 10.34 | 1.42 | 178 | 116,797 | 1,815 | 7.44 | 788.00 | 448.56 | 145.96 | 340.66 | 357.51 | 266.18 |
| 10/23/02 3:58 PM | 10.34 | 1.42 | 178 | 115,073 | 1,743 | 7.46 | 1019.26 | 445.84 | 152.15 | 340.90 | 356.04 | 265.96 |
| 10/23/02 3:59 PM | 10.34 | 1.42 | 178 | 115,054 | 2,140 | 7.45 | 945.00 | 451.17 | 138.24 | 341.15 | 355.31 | 266.21 |
| 10/23/02 4:00 PM | 10.34 | 1.42 | 178 | 116,176 | 1,848 | 7.57 | 899.26 | 458.54 | 149.66 | 341.39 | 355.07 | 266.38 |
| 10/23/02 4:01 PM | 10.34 | 1.42 | 178 | 115,386 | 1,520 | 7.57 | 712.44 | 470.38 | 151.57 | 341.64 | 354.82 | 266.89 |
| 10/23/02 4:02 PM | 10.35 | 1.42 | 178 | 113,580 | 1,802 | 7.60 | 682.38 | 473.93 | 134.98 | 341.88 | 352.14 | 266.49 |
| 10/23/02 4:03 PM | 10.35 | 1.42 | 178 | 115,284 | 1,666 | 7.49 | 660.40 | 469.87 | 130.91 | 341.88 | 351.65 | 265.91 |
| 10/23/02 4:04 PM | 10.35 | 1.42 | 178 | 116,411 | 1,805 | 7.33 | 827.01 | 452.90 | 145.92 | 342.12 | 352.14 | 267.88 |
| 10/23/02 4:05 PM | 10.35 | 1.42 | 178 | 114,279 | 2,063 | 7.35 | 1323.43 | 427.96 | 157.55 | 342.37 | 351.89 | 267.82 |
| 10/23/02 4:06 PM | 10.35 | 1.42 | 178 | 114,717 | 1,978 | 7.34 | 1658.93 | 414.66 | 143.01 | 342.37 | 350.43 | 267.29 |
| 10/23/02 4:07 PM | 10.35 | 1.42 | 178 | 116,812 | 2,429 | 7.39 | 1859.55 | 406.43 | 155.34 | 342.61 | 349.69 | 267.06 |
| 10/23/02 4:08 PM | 10.35 | 1.42 | 178 | 115,596 | 2,129 | 7.37 | 1663.30 | 411.87 | 162.08 | 342.61 | 350.67 | 267.38 |
| 10/23/02 4:09 PM | 10.35 | 1.42 | 178 | 119,438 | 1,747 | 7.48 | 1281.26 | 422.92 | 150.36 | 342.86 | 349.94 | 267.16 |
| 10/23/02 4:10 PM | 10.35 | 1.42 | 178 | 117,108 | 2,025 | 7.75 | 1151.52 | 426.59 | 139.12 | 342.86 | 350.67 | 264.77 |
| 10/23/02 4:11 PM | 10.35 | 1.42 | 178 | 116,740 | 2,052 | 7.41 | 1332.68 | 426.34 | 147.26 | 343.10 | 352.63 | 264.87 |
| 10/23/02 4:12 PM | 10.35 | 1.42 | 178 | 114,799 | 2,158 | 7.53 | 1215.59 | 424.03 | 155.28 | 343.35 | 352.63 | 264.99 |
| 10/23/02 4:13 PM | 10.35 | 1.42 | 178 | 116,059 | 2,151 | 7.46 | 985.98 | 435.97 | 136.43 | 343.35 | 351.89 | 265.26 |
| 10/23/02 4:14 PM | 10.35 | 1.42 | 178 | 117,467 | 1,688 | 7.42 | 1125.20 | 428.17 | 148.00 | 343.59 | 352.87 | 265.26 |
| 10/23/02 4:15 PM | 10.35 | 1.42 | 178 | 115,392 | 2,169 | 7.39 | 1846.55 | 399.42 | 163.11 | 343.83 | 354.33 | 265.63 |
| 10/23/02 4:16 PM | 10.35 | 1.42 | 178 | 114,690 | 2,003 | 7.63 | 1261.57 | 423.79 | 145.49 | 343.83 | 355.31 | 265.98 |
| 10/23/02 4:17 PM | 10.25 | 1.42 | 178 | 113,492 | 1,901 | 7.60 | 821.94 | 434.75 | 141.40 | 344.08 | 357.26 | 265.77 |
| 10/23/02 4:18 PM | 10.25 | 1.42 | 178 | 116,839 | 1,956 | 7.53 | 807.56 | 438.15 | 153.68 | 344.32 | 360.20 | 267.08 |
| 10/23/02 4:19 PM | 10.25 | 1.42 | 178 | 115,881 | 2,151 | 7.49 | 804.49 | 433.56 | 157.23 | 344.57 | 360.44 | 266.81 |
| 10/23/02 4:20 PM | 10.25 | 1.42 | 178 | 113,046 | 1,538 | 7.49 | 804.64 | 433.46 | 157.26 | 344.81 | 364.35 | 267.40 |
| 10/23/02 4:21 PM | 10.25 | 1.42 | 178 | 115,117 | 1,838 | 7.49 | 804.64 | 433.46 | 157.26 | 345.05 | 367.77 | 267.70 |
| 10/23/02 4:22 PM | 10.25 | 1.42 | 178 | 115,592 | 1,956 | 7.44 | 975.70 | 414.89 | 156.70 | 345.30 | 368.01 | 268.92 |
| 10/23/02 4:23 PM | 10.25 | 1.42 | 178 | 117,471 | 1,820 | 7.52 | 1477.06 | 398.15 | 145.55 | 345.54 | 366.79 | 268.86 |
| 10/23/02 4:24 PM | 10.25 | 1.42 | 178 | 116,247 | 1,641 | 7.51 | 1082.37 | 409.75 | 154.52 | 345.78 | 368.99 | 269.42 |
| 10/23/02 4:25 PM | 10.25 | 1.42 | 178 | 117,211 | 1,930 | 7.47 | 1072.46 | 401.47 | 160.82 | 346.03 | 369.47 | 269.85 |
| 10/23/02 4:26 PM | 10.25 | 1.42 | 178 | 115,329 | 2,722 | 7.46 | 1048.78 | 402.57 | 144.23 | 346.28 | 368.74 | 269.27 |
| 10/23/02 4:27 PM | 10.25 | 1.42 | 178 | 115,838 | 1,637 | 7.47 | 1249.77 | 392.09 | 150.20 | 346.52 | 371.92 | 270.91 |
| 10/23/02 4:28 PM | 10.25 | 1.42 | 178 | 118,146 | 1,926 | 7.48 | 1199.20 | 393.21 | 164.73 | 346.76 | 374.85 | 271.38 |
| 10/23/02 4:29 PM | 10.25 | 1.42 | 178 | 117,750 | 2,021 | 7.56 | 1105.42 | 403.42 | 149.86 | 347.01 | 376.07 | 271.80 |
| 10/23/02 4:30 PM | 10.25 | 1.42 | 178 | 118,324 | 2,451 | 7.58 | 934.59 | 403.37 | 141.35 | 347.25 | 377.29 | 270.90 |
| 10/23/02 4:31 PM | 10.25 | 1.42 | 178 | 116,378 | 1,890 | 7.47 | 925.29 | 401.02 | 154.77 | 347.50 | 379.24 | 271.51 |
| 10/23/02 4:32 PM | 10.25 | 1.42 | 178 | 115,371 | 2,055 | 7.51 | 873.77 | 397.82 | 158.33 | 347.74 | 378.75 | 271.27 |
| 10/23/02 4:33 PM | 10.25 | 1.42 | 178 | 116,816 | 2,246 | 7.56 | 1154.96 | 384.10 | 139.86 | 347.99 | 379.00 | 268.74 |
| 10/23/02 4:34 PM | 10.25 | 1.42 | 178 | 118,526 | 2,282 | 7.48 | 1147.55 | 376.95 | 153.48 | 348.23 | 381.20 | 268.84 |
| 10/23/02 4:35 PM | 10.25 | 1.42 | 178 | 116,845 | 1,501 | 7.48 | 1078.12 | 380.76 | 164.18 | 348.72 | 382.17 | 269.54 |
| 10/23/02 4:36 PM | 10.25 | 1.42 | 178 | 117,314 | 2,129 | 7.38 | 1158.42 | 396.47 | 149.24 | 348.96 | 380.22 | 268.93 |
| 10/23/02 4:37 PM | 10.25 | 1.42 | 178 | 116,528 | 2,235 | 7.47 | 1481.39 | 391.27 | 157.45 | 349.21 | 380.46 | 269.64 |
| 10/23/02 4:38 PM | 10.25 | 1.42 | 178 | 118,466 | 2,070 | 7.43 | 1477.76 | 399.32 | 170.04 | 349.45 | 381.93 | 270.06 |
| 10/23/02 4:39 PM | 10.25 | 1.42 | 178 | 113,922 | 2,109 | 7.54 | 1102.51 | 424.78 | 153.41 | 349.69 | 382.66 | 269.68 |
| 10/23/02 4:40 PM | 10.25 | 1.42 | 178 | 115,950 | 1,985 | 7.45 | 1106.43 | 405.02 | 146.26 | 349.94 | 383.64 | 269.53 |
| 10/23/02 4:41 PM | 10.25 | 1.42 | 178 | 116,738 | 1,926 | 7.41 | 1232.43 | 393.49 | 163.02 | 350.43 | 385.35 | 270.78 |
| 10/23/02 4:42 PM | 10.25 | 1.42 | 178 | 117,822 | 2,180 | 7.39 | 1444.21 | 393.53 | 162.88 | 350.67 | 385.10 | 270.78 |
| 10/23/02 4:43 PM | 10.25 | 1.42 | 178 | 118,762 | 2,110 | 7.55 | 1351.89 | 396.62 | 147.38 | 350.92 | 385.10 | 270.92 |
| 10/23/02 4:44 PM | 10.25 | 1.42 | 178 | 117,688 | 2,198 | 7.58 | 1021.21 | 405.83 | 159.54 | 351.16 | 386.81 | 270.76 |
| 10/23/02 4:45 PM | 10.25 | 1.42 | 178 | 117,728 | 1,747 | 7.50 | 859.19 | 414.10 | 161.45 | 351.65 | 386.08 | 271.63 |
| 10/23/02 4:46 PM | 10.25 | 1.42 | 178 | 117,753 | 2,217 | 7.51 | 977.88 | 410.45 | 147.26 | 351.89 | 384.86 | 271.60 |
| 10/23/02 4:47 PM | 10.25 | 1.42 | 178 | 114,361 | 1,919 | 7.61 | 1040.07 | 412.86 | 156.48 | 352.14 | 385.84 | 271.98 |
| 10/23/02 4:48 PM | 10.25 | 1.42 | 178 | 117,046 | 2,074 | 7.53 | 853.70 | 422.32 | 166.28 | 352.38 | 385.35 | 272.58 |
| 10/23/02 4:49 PM | 10.25 | 1.42 | 178 | 115,843 | 1,959 | 7.54 | 861.29 | 418.01 | 149.67 | 352.87 | 382.66 | 272.17 |
| 10/23/02 4:50 PM | 10.25 | 1.42 | 178 | 113,460 | 1,754 | 7.52 | 925.78 | 414.39 | 145.25 | 353.11 | 379.00 | 273.50 |
| 10/23/02 4:51 PM | 10.25 | 1.42 | 178 | 116,411 | 2,385 | 7.46 | 965.25 | 425.20 | 161.51 | 353.36 | 378.75 | 272.91 |
| 10/23/02 4:52 PM | 10.25 | 1.42 | 178 | 115,732 | 1,908 | 7.55 | 1120.68 | 417.53 | 151.52 | 353.60 | 377.29 | 272.93 |
| 10/23/02 4:53 PM | 10.25 | 1.42 | 178 | 115,237 | 1,871 | 7.52 | 874.14 | 416.99 | 139.24 | 353.85 | 376.80 | 271.78 |
| 10/23/02 4:54 PM | 10.25 | 1.42 | 178 | 115,899 | 2,025 | 7.42 | 1078.25 | 404.98 | 157.78 | 353.85 | 377.05 | 273.07 |
| 10/23/02 4:55 PM | 10.25 | 1.42 | 178 | 117,784 | 1,794 | 7.51 | 1060.72 | 405.51 | 165.73 | 354.09 | 376.31 | 272.67 |
| 10/23/02 4:56 PM | 10.25 | 1.42 | 178 | 115,659 | 1,791 | 7.54 | 1179.03 | 397.33 | 145.02 | 354.33 | 375.82 | 270.50 |
| 10/23/02 4:57 PM | 10.25 | 1.42 | 178 | 115,960 | 1,937 | 7.49 | 977.80 | 405.97 | 155.23 | 354.58 | 376.31 | 270.41 |
| 10/23/02 4:58 PM | 10.25 | 1.42 | 178 | 116,160 | 2,356 | 7.44 | 1032.64 | 406.50 | 167.77 | 354.58 | 376.80 | 270.76 |
| 10/23/02 4:59 PM | 10.25 | 1.42 | 178 | 115,419 | 2,173 | 7.44 | 1397.29 | 397.94 | 155.95 | 354.82 | 374.85 | 270.57 |
| 10/23/02 5:00 PM | 10.25 | 1.42 | 178 | 115,641 | 1,813 | 7.53 | 1227.22 | 419.51 | 154.61 | 354.82 | 375.09 | 270.76 |
| 10/23/02 5:01 PM | 10.25 | 1.42 | 178 | 114,628 | 2,074 | 7.37 | 1144.88 | 415.27 | 168.55 | 355.07 | 376.07 | 271.03 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 5:02 PM | 10.25 | 1.42 | 178 | 113,592 | 2,282 | 7.50 | 1207.53 | 414.06 | 164.16 | 355.31 | 374.60 | 270.85 |
| 10/23/02 5:03 PM | 10.25 | 1.42 | 178 | 113,546 | 2,074 | 7.49 | 1174.05 | 424.68 | 146.15 | 355.31 | 375.34 | 270.01 |
| 10/23/02 5:04 PM | 10.25 | 1.42 | 178 | 115,286 | 1,901 | 7.54 | 953.46 | 432.97 | 166.20 | 355.56 | 377.05 | 271.06 |
| 10/23/02 5:05 PM | 10.25 | 1.42 | 178 | 117,265 | 1,542 | 7.55 | 843.28 | 442.52 | 163.96 | 356.80 | 376.80 | 271.24 |
| 10/23/02 5:06 PM | 10.25 | 1.42 | 178 | 116,746 | 2,063 | 7.63 | 721.14 | 449.87 | 141.10 | 355.80 | 376.31 | 271.36 |
| 10/23/02 5:07 PM | 10.25 | 1.42 | 178 | 117,817 | 2,151 | 7.62 | 1193.11 | 418.18 | 157.60 | 356.04 | 377.05 | 270.76 |
| 10/23/02 5:08 PM | 10.25 | 1.42 | 178 | 117,666 | 1,772 | 7.37 | 1147.28 | 408.23 | 167.93 | 356.29 | 376.56 | 272.47 |
| 10/23/02 5:09 PM | 10.25 | 1.42 | 178 | 117,350 | 1,996 | 7.42 | 1411.44 | 405.64 | 162.54 | 356.29 | 373.38 | 271.68 |
| 10/23/02 5:10 PM | 10.25 | 1.42 | 178 | 118,944 | 2,052 | 7.49 | 1286.49 | 411.34 | 159.90 | 356.53 | 372.89 | 271.98 |
| 10/23/02 5:11 PM | 10.25 | 1.42 | 178 | 119,443 | 1,656 | 7.45 | 1056.28 | 429.23 | 174.06 | 356.78 | 372.41 | 272.59 |
| 10/23/02 5:12 PM | 10.25 | 1.42 | 178 | 116,023 | 2,451 | 7.49 | 1018.62 | 439.78 | 163.09 | 356.79 | 371.43 | 272.00 |
| 10/23/02 5:13 PM | 10.25 | 1.42 | 178 | 115,168 | 1,674 | 7.45 | 880.79 | 443.25 | 152.83 | 357.02 | 369.23 | 273.27 |
| 10/23/02 5:14 PM | 10.25 | 1.42 | 178 | 115,422 | 2,063 | 7.44 | 896.91 | 442.45 | 166.84 | 357.02 | 370.21 | 272.81 |
| 10/23/02 5:15 PM | 10.25 | 1.42 | 178 | 115,503 | 1,879 | 7.61 | 1041.80 | 435.66 | 168.03 | 357.26 | 368.74 | 273.43 |
| 10/23/02 5:16 PM | 10.25 | 1.42 | 178 | 116,948 | 1,783 | 7.57 | 798.09 | 453.26 | 148.72 | 357.26 | 369.23 | 271.80 |
| 10/23/02 5:17 PM | 10.25 | 1.42 | 178 | 115,609 | 1,871 | 7.47 | 854.03 | 444.13 | 155.66 | 357.51 | 372.16 | 272.85 |
| 10/23/02 5:18 PM | 10.25 | 1.42 | 178 | 118,340 | 2,158 | 7.59 | 815.75 | 447.00 | 169.50 | 357.51 | 372.41 | 272.17 |
| 10/23/02 5:19 PM | 10.25 | 1.42 | 178 | 118,146 | 1,919 | 7.65 | 828.85 | 437.89 | 157.87 | 357.75 | 371.43 | 269.90 |
| 10/23/02 5:20 PM | 10.25 | 1.42 | 178 | 115,957 | 2,191 | 7.65 | 930.40 | 437.73 | 157.69 | 357.75 | 372.65 | 269.83 |
| 10/23/02 5:21 PM | 10.25 | 1.42 | 178 | 118,245 | 1,853 | 7.65 | 930.40 | 437.73 | 157.69 | 358.00 | 372.41 | 270.44 |
| 10/23/02 5:22 PM | 10.25 | 1.42 | 178 | 118,351 | 1,820 | 7.38 | 1862.68 | 382.37 | 170.72 | 358.00 | 369.23 | 270.76 |
| 10/23/02 5:23 PM | 10.25 | 1.42 | 178 | 115,952 | 2,114 | 7.46 | 1997.43 | 384.78 | 167.27 | 358.24 | 368.25 | 270.45 |
| 10/23/02 5:24 PM | 10.25 | 1.42 | 178 | 116,843 | 2,228 | 7.41 | 1483.46 | 393.67 | 183.86 | 358.24 | 369.23 | 270.45 |
| 10/23/02 5:25 PM | 10.25 | 1.42 | 178 | 112,332 | 2,198 | 7.52 | 1141.73 | 417.91 | 174.22 | 358.49 | 367.77 | 270.15 |
| 10/23/02 5:26 PM | 10.25 | 1.42 | 178 | 113,892 | 1,948 | 7.40 | 935.64 | 419.65 | 154.50 | 358.49 | 366.30 | 269.82 |
| 10/23/02 5:27 PM | 10.25 | 1.42 | 178 | 114,690 | 1,718 | 7.61 | 1111.06 | 419.01 | 173.09 | 358.73 | 368.01 | 270.47 |
| 10/23/02 5:28 PM | 10.25 | 1.42 | 178 | 114,526 | 2,191 | 7.56 | 866.70 | 436.22 | 173.08 | 358.73 | 368.74 | 270.76 |
| 10/23/02 5:29 PM | 10.25 | 1.42 | 178 | 115,679 | 1,958 | 7.72 | 783.81 | 445.14 | 152.19 | 358.97 | 369.23 | 271.17 |
| 10/23/02 5:30 PM | 10.25 | 1.42 | 178 | 116,299 | 1,655 | 7.60 | 712.38 | 440.93 | 162.69 | 358.97 | 370.70 | 271.26 |
| 10/23/02 5:31 PM | 10.25 | 1.42 | 178 | 117,012 | 2,063 | 7.52 | 783.69 | 430.96 | 170.91 | 359.22 | 371.92 | 272.55 |
| 10/23/02 5:32 PM | 10.24 | 1.42 | 178 | 115,806 | 1,653 | 7.44 | 848.68 | 430.13 | 165.91 | 359.22 | 370.70 | 272.90 |
| 10/23/02 5:33 PM | 10.24 | 1.42 | 178 | 115,739 | 1,860 | 7.51 | 1006.87 | 427.90 | 155.03 | 359.46 | 371.67 | 272.89 |
| 10/23/02 5:34 PM | 10.24 | 1.42 | 178 | 114,260 | 2,092 | 7.59 | 961.91 | 427.82 | 172.03 | 359.71 | 375.09 | 273.56 |
| 10/23/02 5:35 PM | 10.24 | 1.42 | 178 | 114,079 | 1,906 | 7.44 | 847.86 | 437.30 | 173.14 | 359.71 | 376.27 | 274.03 |
| 10/23/02 5:36 PM | 10.24 | 1.42 | 178 | 115,569 | 2,055 | 7.41 | 1088.40 | 422.22 | 158.76 | 359.95 | 377.29 | 274.72 |
| 10/23/02 5:37 PM | 10.24 | 1.42 | 178 | 114,870 | 1,959 | 7.53 | 1206.92 | 417.28 | 165.35 | 360.20 | 380.46 | 273.34 |
| 10/23/02 5:38 PM | 10.24 | 1.42 | 178 | 119,750 | 2,025 | 7.50 | 1249.09 | 412.91 | 178.09 | 360.44 | 383.15 | 275.01 |
| **Averages** | **10.33** | **1.42** | **177.16** | **116,166** | **1,997** | **7.54** | **1,096** | **419.56** | **151.57** | **338.76** | **359.17** | **266.67** |

Ash Grove Cement
Seattle, WA

Run 6 Raw Mill On



| [redacted] | Kiln Coal tons/hour 41C.WF1.Ft | Calciner Coal tons/hour 41C.WF2.Ft | Kiln feed rate tons/hour 412.PC3AI.FC1 | One Minute Average Flow (DSCFM) 413.2K1.Ft10K | Tire feed Rate in pounds/hour 41F.BWt.Ft | One Minute Average O2 (%) 413.2K1.Ai10K | One Minute Average CO (ppm) 413.2K1.Ai20K | One Minute Average NOx (ppm) 413.2K1.Ai30K | One Minute Average SO2 (ppm) 413.2K1.Ai40K | Three Hour Rolling Ave. (%) PCMACT | Baghouse Inlet Temp Deg f 413.BF1.Tt1 | Stack Gas Temperature Deg f 413.2K1.Tt1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 6:17 PM | 10.35 | 1.32 | 178 | 115,620 | 1,260 | 7.70 | 844.12 | 440.17 | 169.79 | 371.43 | 394.14 | 275.34 |
| 10/23/02 6:18 PM | 10.35 | 1.32 | 178 | 117,670 | 1,523 | 7.69 | 694.06 | 454.06 | 167.00 | 371.67 | 395.85 | 275.60 |
| 10/23/02 6:19 PM | 10.35 | 1.32 | 178 | 119,379 | 1,978 | 7.72 | 677.10 | 453.11 | 162.03 | 371.92 | 398.29 | 276.25 |
| 10/23/02 6:20 PM | 10.35 | 1.32 | 178 | 120,757 | 2,125 | 7.72 | 677.05 | 452.99 | 161.97 | 372.16 | 399.76 | 276.53 |
| 10/23/02 6:21 PM | 10.35 | 1.32 | 178 | 117,061 | 1,637 | 7.72 | 677.05 | 452.99 | 161.97 | 372.65 | 402.20 | 276.70 |
| 10/23/02 6:22 PM | 10.35 | 1.32 | 178 | 116,053 | 1,959 | 7.58 | 792.74 | 434.48 | 168.71 | 372.89 | 403.66 | 278.06 |
| 10/23/02 6:23 PM | 10.35 | 1.32 | 178 | 115,775 | 1,813 | 7.67 | 765.93 | 434.51 | 161.78 | 373.14 | 403.17 | 277.17 |
| 10/23/02 6:24 PM | 10.35 | 1.32 | 178 | 115,209 | 2,220 | 7.59 | 745.63 | 432.42 | 160.08 | 373.63 | 402.44 | 277.48 |
| 10/23/02 6:25 PM | 10.35 | 1.32 | 178 | 117,689 | 2,356 | 7.60 | 804.17 | 425.53 | 168.95 | 373.87 | 401.71 | 276.03 |
| 10/23/02 6:26 PM | 10.35 | 1.32 | 178 | 119,592 | 1,919 | 7.59 | 904.43 | 427.34 | 173.61 | 374.11 | 401.47 | 277.18 |
| 10/23/02 6:27 PM | 10.35 | 1.32 | 178 | 116,100 | 2,345 | 7.74 | 731.10 | 436.96 | 174.12 | 374.36 | 397.80 | 275.18 |
| 10/23/02 6:28 PM | 10.35 | 1.32 | 178 | 117,669 | 1,860 | 7.64 | 696.34 | 431.34 | 149.88 | 374.60 | 395.36 | 273.62 |
| 10/23/02 6:29 PM | 10.35 | 1.32 | 178 | 116,844 | 1,849 | 7.68 | 762.33 | 418.86 | 164.61 | 374.85 | 392.67 | 273.73 |
| 10/23/02 6:30 PM | 10.35 | 1.32 | 178 | 118,335 | 2,312 | 7.63 | 696.74 | 430.96 | 167.88 | 375.34 | 391.45 | 273.57 |
| 10/23/02 6:31 PM | 10.35 | 1.32 | 178 | 117,743 | 2,228 | 7.60 | 801.19 | 420.83 | 171.48 | 375.58 | 389.26 | 274.72 |
| 10/23/02 6:32 PM | 10.35 | 1.32 | 178 | 118,145 | 1,490 | 7.69 | 737.40 | 428.28 | 154.53 | 375.82 | 386.08 | 274.00 |
| 10/23/02 6:33 PM | 10.35 | 1.32 | 178 | 117,639 | 2,173 | 7.59 | 761.79 | 417.63 | 157.77 | 375.82 | 385.35 | 274.38 |
| 10/23/02 6:34 PM | 10.35 | 1.32 | 178 | 118,636 | 2,074 | 7.66 | 863.37 | 413.51 | 169.28 | 376.07 | 384.85 | 274.42 |
| 10/23/02 6:35 PM | 10.35 | 1.32 | 178 | 116,282 | 1,388 | 7.60 | 829.74 | 413.33 | 168.64 | 376.31 | 382.17 | 274.56 |
| 10/23/02 6:36 PM | 10.35 | 1.32 | 178 | 116,411 | 1,879 | 7.67 | 859.78 | 414.53 | 156.87 | 376.56 | 380.22 | 274.14 |
| 10/23/02 6:37 PM | 10.35 | 1.32 | 178 | 117,731 | 1,696 | 7.60 | 831.88 | 410.65 | 162.35 | 376.80 | 377.78 | 274.37 |
| 10/23/02 6:38 PM | 10.35 | 1.32 | 178 | 118,033 | 2,070 | 7.76 | 861.65 | 410.56 | 169.01 | 376.80 | 376.56 | 274.35 |
| 10/23/02 6:39 PM | 10.35 | 1.32 | 178 | 117,153 | 1,930 | 7.60 | 686.83 | 422.38 | 161.12 | 377.05 | 375.58 | 273.81 |
| 10/23/02 6:40 PM | 10.35 | 1.32 | 178 | 118,106 | 2,301 | 7.60 | 822.93 | 409.09 | 155.25 | 377.05 | 375.82 | 273.81 |
| 10/23/02 6:41 PM | 10.35 | 1.32 | 178 | 119,030 | 2,070 | 7.63 | 1007.65 | 395.23 | 167.13 | 377.29 | 376.31 | 273.94 |
| 10/23/02 6:42 PM | 10.35 | 1.32 | 178 | 116,663 | 1,772 | 7.62 | 811.39 | 411.98 | 163.77 | 377.53 | 377.05 | 274.62 |
| 10/23/02 6:43 PM | 10.35 | 1.32 | 178 | 117,228 | 2,114 | 7.69 | 851.74 | 400.47 | 158.79 | 377.53 | 375.58 | 274.73 |
| 10/23/02 6:44 PM | 10.35 | 1.32 | 178 | 118,254 | 2,037 | 7.57 | 763.91 | 397.46 | 149.57 | 377.78 | 376.07 | 274.42 |
| 10/23/02 6:45 PM | 10.35 | 1.32 | 178 | 117,637 | 1,428 | 7.58 | 865.28 | 394.28 | 165.64 | 377.78 | 376.80 | 275.33 |
| 10/23/02 6:46 PM | 10.35 | 1.32 | 178 | 118,204 | 2,268 | 7.61 | 769.13 | 401.77 | 165.64 | 378.02 | 376.80 | 274.73 |
| 10/23/02 6:47 PM | 10.34 | 1.32 | 178 | 115,900 | 1,908 | 7.54 | 813.85 | 396.38 | 152.48 | 378.27 | 374.36 | 274.60 |
| 10/23/02 6:48 PM | 10.34 | 1.32 | 178 | 116,749 | 1,776 | 7.53 | 995.18 | 376.52 | 156.34 | 378.27 | 374.11 | 273.43 |
| 10/23/02 6:49 PM | 10.34 | 1.32 | 178 | 116,269 | 2,187 | 7.52 | 1216.14 | 372.84 | 173.77 | 378.51 | 374.11 | 274.99 |
| 10/23/02 6:50 PM | 10.34 | 1.32 | 178 | 116,168 | 2,052 | 7.64 | 931.74 | 381.04 | 166.04 | 378.51 | 373.87 | 272.87 |
| 10/23/02 6:51 PM | 10.34 | 1.32 | 178 | 116,255 | 2,173 | 7.60 | 961.71 | 372.28 | 152.32 | 378.75 | 373.87 | 271.39 |
| 10/23/02 6:52 PM | 10.34 | 1.32 | 178 | 115,522 | 1,761 | 7.62 | 872.39 | 379.14 | 168.57 | 378.75 | 375.58 | 271.95 |
| 10/23/02 6:53 PM | 10.34 | 1.32 | 178 | 115,811 | 2,089 | 7.56 | 859.77 | 378.48 | 173.53 | 378.75 | 376.07 | 271.77 |
| 10/23/02 6:54 PM | 10.34 | 1.32 | 178 | 115,292 | 1,956 | 7.62 | 906.70 | 374.53 | 156.11 | 379.00 | 374.60 | 271.78 |
| 10/23/02 6:55 PM | 10.34 | 1.32 | 178 | 116,067 | 1,600 | 7.60 | 897.48 | 367.48 | 158.97 | 379.00 | 372.65 | 271.10 |
| 10/23/02 6:56 PM | 10.34 | 1.32 | 178 | 117,207 | 1,871 | 7.53 | 903.06 | 364.79 | 169.76 | 379.24 | 372.89 | 271.96 |
| 10/23/02 6:57 PM | 10.34 | 1.32 | 178 | 117,900 | 2,564 | 7.55 | 944.08 | 365.06 | 173.15 | 379.24 | 371.92 | 271.67 |
| 10/23/02 6:58 PM | 10.34 | 1.32 | 178 | 119,107 | 1,765 | 7.54 | 961.29 | 360.75 | 151.80 | 379.24 | 371.67 | 272.27 |
| 10/23/02 6:59 PM | 10.34 | 1.32 | 178 | 116,530 | 1,585 | 7.55 | 988.40 | 354.40 | 156.63 | 379.49 | 372.89 | 271.91 |
| 10/23/02 7:00 PM | 10.34 | 1.32 | 178 | 118,816 | 1,677 | 7.71 | 1204.88 | 340.38 | 171.79 | 379.49 | 374.36 | 272.64 |
| 10/23/02 7:01 PM | 10.34 | 1.32 | 178 | 119,128 | 2,198 | 7.63 | 1502.18 | 352.67 | 175.53 | 379.73 | 372.89 | 272.60 |
| 10/23/02 7:02 PM | 10.34 | 1.32 | 178 | 118,367 | 1,842 | 7.62 | 1052.80 | 356.74 | 156.69 | 379.73 | 370.70 | 272.26 |
| 10/23/02 7:03 PM | 10.34 | 1.32 | 178 | 115,475 | 2,158 | 7.68 | 878.13 | 364.68 | 162.88 | 379.73 | 370.45 | 272.59 |
| 10/23/02 7:04 PM | 10.34 | 1.32 | 178 | 116,504 | 2,092 | 7.55 | 769.57 | 367.17 | 168.76 | 379.98 | 370.94 | 273.19 |
| 10/23/02 7:05 PM | 10.34 | 1.32 | 178 | 116,296 | 1,802 | 7.61 | 959.53 | 358.52 | 168.25 | 379.98 | 370.94 | 273.28 |
| 10/23/02 7:06 PM | 10.34 | 1.32 | 178 | 116,751 | 1,791 | 7.57 | 951.90 | 353.81 | 151.77 | 380.22 | 369.72 | 272.59 |
| 10/23/02 7:07 PM | 10.34 | 1.32 | 178 | 118,195 | 1,985 | 7.63 | 867.98 | 355.43 | 160.22 | 380.22 | 370.70 | 273.46 |
| 10/23/02 7:08 PM | 10.34 | 1.32 | 178 | 116,090 | 2,495 | 7.54 | 782.53 | 362.55 | 168.03 | 380.46 | 373.14 | 274.53 |
| 10/23/02 7:09 PM | 10.34 | 1.32 | 178 | 117,288 | 1,794 | 7.60 | 857.36 | 356.58 | 156.32 | 380.46 | 375.82 | 273.74 |
| 10/23/02 7:10 PM | 10.34 | 1.32 | 178 | 117,732 | 1,842 | 7.54 | 878.47 | 353.84 | 154.90 | 380.71 | 377.29 | 273.64 |
| 10/23/02 7:11 PM | 10.34 | 1.32 | 178 | 118,360 | 1,930 | 7.57 | 937.22 | 348.83 | 170.01 | 380.71 | 379.24 | 273.35 |
| 10/23/02 7:12 PM | 10.34 | 1.32 | 178 | 117,742 | 2,304 | 7.57 | 815.31 | 361.07 | 169.45 | 380.95 | 378.51 | 274.45 |
| 10/23/02 7:13 PM | 10.34 | 1.32 | 178 | 116,836 | 1,842 | 7.70 | 792.54 | 359.39 | 148.51 | 381.20 | 377.29 | 272.08 |
| 10/23/02 7:14 PM | 10.34 | 1.32 | 178 | 117,643 | 1,967 | 7.69 | 774.81 | 360.99 | 154.18 | 381.20 | 377.78 | 271.50 |
| 10/23/02 7:15 PM | 10.34 | 1.32 | 178 | 117,495 | 1,860 | 7.60 | 723.25 | 363.14 | 160.64 | 381.44 | 378.51 | 272.21 |
| 10/23/02 7:16 PM | 10.34 | 1.32 | 178 | 116,665 | 1,974 | 7.51 | 869.39 | 355.42 | 157.95 | 381.44 | 377.29 | 271.44 |
| 10/23/02 7:17 PM | 10.34 | 1.32 | 178 | 117,644 | 1,820 | 7.53 | 940.51 | 352.58 | 156.32 | 381.69 | 379.49 | 272.28 |
| 10/23/02 7:18 PM | 10.34 | 1.32 | 178 | 117,865 | 1,531 | 7.55 | 1016.21 | 350.98 | 173.74 | 381.69 | 383.39 | 272.20 |
| 10/23/02 7:19 PM | 10.34 | 1.32 | 178 | 116,446 | 2,217 | 7.48 | 885.17 | 360.04 | 177.63 | 381.93 | 382.66 | 272.88 |
| 10/23/02 7:20 PM | 10.34 | 1.32 | 178 | 117,018 | 2,081 | 7.48 | 884.01 | 360.19 | 177.86 | 381.93 | 382.66 | 271.98 |
| 10/23/02 7:21 PM | 10.34 | 1.32 | 178 | 117,808 | 1,824 | 7.48 | 884.00 | 350.20 | 177.66 | 382.17 | 384.37 | 272.84 |
| 10/23/02 7:22 PM | 10.34 | 1.32 | 178 | 117,286 | 2,363 | 7.55 | 1152.27 | 341.73 | 163.26 | 382.17 | 384.37 | 273.20 |
| 10/23/02 7:23 PM | 10.34 | 1.32 | 178 | 116,646 | 1,974 | 7.64 | 998.42 | 355.12 | 160.15 | 382.17 | 383.88 | 273.19 |
| 10/23/02 7:24 PM | 10.34 | 1.32 | 178 | 117,521 | 1,849 | 7.70 | 875.93 | 358.42 | 164.81 | 382.42 | 384.37 | 273.41 |
| 10/23/02 7:25 PM | 10.34 | 1.32 | 178 | 120,047 | 2,400 | 7.56 | 892.15 | 350.99 | 174.06 | 382.42 | 384.86 | 273.75 |
| 10/23/02 7:26 PM | 10.34 | 1.32 | 178 | 117,552 | 1,908 | 7.52 | 1081.05 | 344.19 | 179.58 | 382.66 | 383.64 | 273.67 |

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11/22/02

SEA0362

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| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 7:27 PM | 10.34 | 1.32 | 178 | 117,245 | 2,025 | 7.65 | 1234.14 | 343.83 | 158.86 | 382.66 | 381.20 | 273.90 | |
| 10/23/02 7:28 PM | 10.34 | 1.32 | 178 | 118,012 | 2,187 | 7.76 | 910.76 | 362.19 | 162.74 | 382.66 | 379.98 | 274.11 | |
| 10/23/02 7:29 PM | 10.34 | 1.32 | 178 | 117,731 | 1,868 | 7.65 | 756.13 | 368.05 | 169.33 | 382.66 | 379.24 | 274.11 | |
| 10/23/02 7:30 PM | 10.34 | 1.32 | 178 | 116,320 | 1,967 | 7.67 | 807.65 | 359.20 | 169.54 | 382.66 | 378.02 | 274.69 | |
| 10/23/02 7:31 PM | 10.34 | 1.32 | 178 | 117,380 | 1,985 | 7.70 | 780.30 | 363.76 | 150.58 | 382.66 | 376.07 | 274.49 | |
| 10/23/02 7:32 PM | 10.34 | 1.32 | 178 | 114,718 | 1,666 | 7.70 | 743.55 | 355.91 | 159.65 | 382.66 | 376.80 | 273.90 | |
| 10/23/02 7:33 PM | 10.34 | 1.32 | 178 | 118,887 | 1,677 | 7.63 | 792.20 | 354.31 | 171.58 | 382.66 | 376.80 | 274.73 | |
| 10/23/02 7:34 PM | 10.34 | 1.32 | 178 | 118,488 | 2,506 | 7.68 | 775.75 | 360.17 | 166.26 | 382.66 | 377.05 | 273.66 | |
| 10/23/02 7:35 PM | 10.34 | 1.32 | 178 | 119,149 | 2,297 | 7.56 | 737.16 | 355.54 | 156.71 | 382.66 | 375.58 | 274.53 | |
| 10/23/02 7:36 PM | 10.34 | 1.32 | 178 | 119,960 | 1,747 | 7.64 | 1018.70 | 327.55 | 171.75 | 382.66 | 376.80 | 271.85 | |
| 10/23/02 7:37 PM | 10.34 | 1.32 | 178 | 116,266 | 2,356 | 7.43 | 1300.64 | 306.83 | 180.42 | 382.66 | 376.07 | 271.07 | |
| 10/23/02 7:38 PM | 10.34 | 1.32 | 178 | 117,897 | 2,093 | 7.59 | 1390.68 | 305.89 | 166.86 | 382.66 | 374.85 | 271.37 | |
| 10/23/02 7:39 PM | 10.34 | 1.32 | 178 | 116,345 | 2,235 | 7.70 | 1147.22 | 318.78 | 173.53 | 382.42 | 374.60 | 271.26 | |
| 10/23/02 7:40 PM | 10.34 | 1.32 | 178 | 118,335 | 2,037 | 7.64 | 749.61 | 342.96 | 177.20 | 382.42 | 374.36 | 271.96 | |
| 10/23/02 7:41 PM | 10.34 | 1.32 | 178 | 116,648 | 1,850 | 7.49 | 764.78 | 336.80 | 174.38 | 382.42 | 373.14 | 271.15 | |
| 10/23/02 7:42 PM | 10.34 | 1.32 | 178 | 117,461 | 1,776 | 7.47 | 1150.50 | 313.97 | 167.20 | 382.42 | 372.41 | 271.67 | |
| 10/23/02 7:43 PM | 10.34 | 1.32 | 178 | 116,770 | 1,915 | 7.53 | 1251.66 | 308.07 | 183.02 | 382.17 | 374.11 | 271.54 | |
| 10/23/02 7:44 PM | 10.34 | 1.32 | 178 | 115,760 | 2,480 | 7.45 | 1154.32 | 311.89 | 187.65 | 382.17 | 375.58 | 272.84 | |
| 10/23/02 7:45 PM | 10.34 | 1.32 | 178 | 115,397 | 2,110 | 7.57 | 1308.63 | 308.20 | 168.47 | 382.17 | 375.58 | 271.74 | |
| 10/23/02 7:46 PM | 10.34 | 1.32 | 178 | 113,563 | 1,974 | 7.56 | 1051.35 | 316.88 | 175.12 | 382.17 | 377.05 | 272.55 | |
| 10/23/02 7:47 PM | 10.35 | 1.32 | 178 | 115,983 | 1,868 | 7.58 | 938.63 | 325.07 | 184.70 | 381.93 | 377.53 | 273.01 | |
| 10/23/02 7:48 PM | 10.35 | 1.32 | 178 | 115,857 | 1,754 | 7.52 | 1069.69 | 314.30 | 176.71 | 381.93 | 375.58 | 273.16 | |
| 10/23/02 7:49 PM | 10.35 | 1.32 | 178 | 114,172 | 2,132 | 7.54 | 1068.65 | 317.17 | 166.24 | 381.93 | 377.29 | 272.89 | |
| 10/23/02 7:50 PM | 10.35 | 1.32 | 178 | 114,821 | 1,761 | 7.66 | 941.53 | 322.52 | 181.91 | 381.93 | 384.13 | 273.58 | |
| 10/23/02 7:51 PM | 10.35 | 1.32 | 178 | 115,862 | 1,421 | 7.63 | 885.24 | 320.50 | 190.88 | 381.93 | 389.01 | 274.78 | |
| 10/23/02 7:52 PM | 10.35 | 1.32 | 178 | 116,667 | 2,007 | 7.59 | 962.39 | 311.32 | 170.17 | 381.93 | 392.43 | 275.03 | |
| 10/23/02 7:53 PM | 10.35 | 1.32 | 178 | 114,966 | 2,180 | 7.56 | 1054.65 | 310.96 | 169.43 | 382.17 | 397.56 | 276.14 | |
| 10/23/02 7:54 PM | 10.35 | 1.32 | 178 | 118,001 | 1,868 | 7.54 | 1065.93 | 304.69 | 185.34 | 382.17 | 397.31 | 276.94 | |
| 10/23/02 7:55 PM | 10.35 | 1.32 | 178 | 115,478 | 2,121 | 7.45 | 1246.64 | 302.47 | 173.32 | 382.42 | 393.65 | 276.24 | |
| 10/23/02 7:56 PM | 10.35 | 1.32 | 178 | 115,684 | 2,021 | 7.40 | 1717.04 | 288.12 | 164.79 | 382.42 | 390.72 | 275.43 | |
| 10/23/02 7:57 PM | 10.35 | 1.32 | 178 | 116,358 | 2,158 | 7.48 | 1999.17 | 299.93 | 181.84 | 382.42 | 387.55 | 274.96 | |
| 10/23/02 7:58 PM | 10.35 | 1.32 | 178 | 116,526 | 1,967 | 7.42 | 1630.09 | 347.11 | 172.49 | 382.66 | 382.66 | 275.33 | |
| 10/23/02 7:59 PM | 10.35 | 1.32 | 178 | 117,561 | 1,967 | 7.56 | 1483.69 | 353.17 | 151.54 | 382.66 | 380.95 | 272.24 | |
| 10/23/02 8:00 PM | 10.35 | 1.32 | 178 | 119,369 | 1,903 | 7.41 | 1263.45 | 367.12 | 169.43 | 382.66 | 380.46 | 271.46 | |
| 10/23/02 8:01 PM | 10.35 | 1.32 | 178 | 116,167 | 1,831 | 7.47 | 1457.31 | 358.59 | 174.81 | 382.66 | 378.75 | 272.28 | |
| 10/23/02 8:02 PM | 10.35 | 1.32 | 178 | 117,551 | 2,173 | 7.52 | 1361.32 | 362.38 | 151.47 | 382.66 | 376.31 | 271.69 | |
| 10/23/02 8:03 PM | 10.35 | 1.32 | 178 | 116,002 | 1,725 | 7.57 | 1195.55 | 364.85 | 166.40 | 382.66 | 374.60 | 271.98 | |
| 10/23/02 8:04 PM | 10.35 | 1.32 | 178 | 116,973 | 2,444 | 7.50 | 1139.00 | 376.71 | 170.70 | 382.66 | 372.16 | 271.88 | |
| 10/23/02 8:05 PM | 10.35 | 1.32 | 178 | 115,198 | 1,501 | 7.53 | 882.62 | 394.32 | 145.83 | 382.66 | 367.28 | 271.16 | |
| 10/23/02 8:06 PM | 10.35 | 1.32 | 178 | 116,299 | 2,262 | 7.59 | 866.20 | 389.25 | 128.04 | 382.66 | 361.42 | 269.27 | |
| 10/23/02 8:07 PM | 10.35 | 1.32 | 178 | 117,055 | 2,103 | 7.46 | 852.38 | 388.00 | 129.50 | 382.42 | 354.58 | 268.71 | |
| 10/23/02 8:08 PM | 10.35 | 1.32 | 178 | 117,163 | 2,007 | 7.56 | 1050.40 | 379.03 | 142.56 | 382.42 | 347.50 | 267.42 | |
| 10/23/02 8:09 PM | 10.35 | 1.32 | 178 | 114,947 | 1,655 | 7.47 | 850.50 | 404.85 | 142.90 | 382.17 | 342.37 | 267.40 | |
| 10/23/02 8:10 PM | 10.35 | 1.32 | 178 | 115,492 | 1,824 | 7.50 | 1091.68 | 391.04 | 149.57 | 381.93 | 336.75 | 266.21 | |
| 10/23/02 8:11 PM | 10.35 | 1.32 | 178 | 115,818 | 1,926 | 7.47 | 1034.96 | 390.15 | 150.15 | 381.93 | 331.87 | 265.57 | |
| 10/23/02 8:12 PM | 10.35 | 1.32 | 178 | 116,270 | 1,809 | 7.43 | 931.11 | 397.69 | 146.97 | 381.69 | 326.25 | 264.97 | |
| 10/23/02 8:13 PM | 10.35 | 1.32 | 178 | 115,398 | 2,121 | 7.39 | 1090.50 | 383.26 | 156.38 | 381.44 | 320.63 | 264.40 | |
| 10/23/02 8:14 PM | 10.35 | 1.32 | 178 | 114,073 | 1,783 | 7.41 | 1337.24 | 372.02 | 161.03 | 381.20 | 316.48 | 263.96 | |
| 10/23/02 8:15 PM | 10.35 | 1.32 | 178 | 115,980 | 2,217 | 7.29 | 1215.44 | 383.51 | 161.48 | 380.71 | 313.65 | 263.45 | |
| 10/23/02 8:16 PM | 10.35 | 1.32 | 176 | 114,537 | 2,007 | 7.38 | 1693.94 | 352.47 | 167.32 | 380.46 | 310.13 | 263.71 | |
| 10/23/02 8:17 PM | 10.34 | 1.32 | 176 | 117,179 | 2,301 | 7.44 | 1298.19 | 384.53 | 165.15 | 380.22 | 306.96 | 263.68 | |
| 10/23/02 8:18 PM | 10.34 | 1.32 | 176 | 118,258 | 1,901 | 7.48 | 986.72 | 409.74 | 163.94 | 379.73 | 304.76 | 263.10 | |
| 10/23/02 8:19 PM | 10.34 | 1.32 | 176 | 118,002 | 2,151 | 7.49 | 980.78 | 409.03 | 163.25 | 379.49 | 304.03 | 262.61 | |
| 10/23/02 8:20 PM | 10.34 | 1.32 | 176 | 118,129 | 1,611 | 7.49 | 980.46 | 409.04 | 163.25 | 379.00 | 304.52 | 262.02 | |
| 10/23/02 8:21 PM | 10.34 | 1.32 | 176 | 118,377 | 1,725 | 7.49 | 980.46 | 409.04 | 163.25 | 378.75 | 303.30 | 262.36 | |
| 10/23/02 8:22 PM | 10.34 | 1.32 | 176 | 118,632 | 2,605 | 7.55 | 1003.64 | 395.16 | 163.08 | 378.27 | 303.54 | 260.15 | |
| 10/23/02 8:23 PM | 10.34 | 1.32 | 176 | 115,785 | 2,052 | 7.43 | 875.87 | 405.32 | 162.39 | 377.78 | 303.30 | 259.46 | |
| 10/23/02 8:24 PM | 10.34 | 1.32 | 176 | 116,613 | 2,422 | 7.47 | 993.43 | 395.94 | 161.34 | 377.53 | 302.81 | 259.77 | |
| 10/23/02 8:25 PM | 10.34 | 1.32 | 176 | 116,508 | 2,132 | 7.36 | 1014.35 | 399.15 | 162.54 | 377.05 | 302.08 | 259.46 | |
| 10/23/02 8:26 PM | 10.34 | 1.32 | 176 | 116,968 | 1,666 | 7.41 | 1141.94 | 392.99 | 164.80 | 376.80 | 301.59 | 260.01 | |
| 10/23/02 8:27 PM | 10.34 | 1.32 | 176 | 116,966 | 2,385 | 7.46 | 1120.57 | 390.56 | 163.14 | 376.56 | 300.85 | 259.46 | |
| 10/23/02 8:28 PM | 10.34 | 1.32 | 176 | 117,869 | 1,908 | 7.48 | 846.69 | 409.08 | 159.88 | 376.07 | 301.83 | 259.83 | |
| 10/23/02 8:29 PM | 10.34 | 1.32 | 176 | 116,444 | 2,293 | 7.43 | 878.75 | 399.42 | 163.16 | 375.58 | 302.81 | 259.20 | |
| 10/23/02 8:30 PM | 10.34 | 1.32 | 176 | 115,321 | 1,813 | 7.42 | 1066.36 | 388.78 | 157.09 | 375.34 | 303.30 | 260.07 | |
| 10/23/02 8:31 PM | 10.34 | 1.32 | 176 | 113,916 | 1,776 | 7.44 | 1054.71 | 394.63 | 163.41 | 374.85 | 303.79 | 259.77 | |
| 10/23/02 8:32 PM | 10.34 | 1.32 | 176 | 116,115 | 2,389 | 7.43 | 964.83 | 390.30 | 161.43 | 374.60 | 304.03 | 260.62 | |
| 10/23/02 8:33 PM | 10.34 | 1.32 | 176 | 115,602 | 2,189 | 7.46 | 891.91 | 408.23 | 154.92 | 374.11 | 302.32 | 260.08 | |
| 10/23/02 8:34 PM | 10.34 | 1.32 | 176 | 119,049 | 2,025 | 7.39 | 844.84 | 411.77 | 143.40 | 373.87 | 301.59 | 260.42 | |
| 10/23/02 8:35 PM | 10.34 | 1.32 | 176 | 117,732 | 2,074 | 7.47 | 922.83 | 406.17 | 145.14 | 373.38 | 301.59 | 260.38 | |
| 10/23/02 8:36 PM | 10.34 | 1.32 | 176 | 116,392 | 1,842 | 7.57 | 847.41 | 415.65 | 151.12 | 372.89 | 300.61 | 260.11 | |
| 10/23/02 8:37 PM | 10.34 | 1.32 | 176 | 116,405 | 1,901 | 7.65 | 705.11 | 432.96 | 144.74 | 372.65 | 299.88 | 260.60 | |
| 10/23/02 8:38 PM | 10.34 | 1.32 | 176 | 115,817 | 2,257 | 7.58 | 605.95 | 442.96 | 141.53 | 372.16 | 299.88 | 260.45 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/23/02 8:39 PM | 10.34 | 1.32 | 176 | 114,283 | 2,143 | 7.56 | 649.99 | 440.95 | 139.62 | 371.67 | 299.88 | 260.96 |
| 10/23/02 8:40 PM | 10.34 | 1.32 | 176 | 116,231 | 1,992 | 7.48 | 688.51 | 436.85 | 141.57 | 371.18 | 300.37 | 260.82 |
| 10/23/02 8:41 PM | 10.34 | 1.32 | 176 | 114,742 | 1,454 | 7.52 | 793.43 | 431.41 | 145.41 | 370.70 | 300.12 | 260.91 |
| 10/23/02 8:42 PM | 10.34 | 1.32 | 176 | 115,126 | 2,356 | 7.60 | 696.89 | 433.59 | 145.83 | 370.21 | 299.63 | 260.14 |
| 10/23/02 8:43 PM | 10.34 | 1.32 | 176 | 116,804 | 2,286 | 7.49 | 629.83 | 448.15 | 147.44 | 369.72 | 300.37 | 260.64 |
| 10/23/02 8:44 PM | 10.34 | 1.32 | 176 | 114,775 | 2,003 | 7.57 | 664.91 | 452.50 | 149.06 | 369.23 | 301.10 | 260.51 |
| 10/23/02 8:45 PM | 10.34 | 1.32 | 176 | 115,648 | 1,974 | 7.59 | 609.31 | 455.66 | 140.22 | 368.74 | 302.32 | 258.62 |
| 10/23/02 8:46 PM | 10.34 | 1.32 | 176 | 115,637 | 2,044 | 7.51 | 642.57 | 451.12 | 143.28 | 368.25 | 302.56 | 258.24 |
| 10/23/02 8:47 PM | 10.35 | 1.32 | 176 | 115,535 | 1,860 | 7.55 | 662.71 | 451.07 | 145.06 | 367.52 | 303.05 | 258.57 |
| 10/23/02 8:48 PM | 10.35 | 1.32 | 176 | 117,447 | 2,180 | 7.49 | 694.38 | 444.52 | 146.79 | 367.03 | 302.06 | 258.55 |
| 10/23/02 8:49 PM | 10.35 | 1.32 | 176 | 116,968 | 2,176 | 7.51 | 676.80 | 446.96 | 147.77 | 366.54 | 300.37 | 258.59 |
| 10/23/02 8:50 PM | 10.35 | 1.32 | 176 | 116,479 | 1,880 | 7.47 | 726.14 | 437.12 | 152.85 | 366.06 | 300.12 | 258.23 |
| 10/23/02 8:51 PM | 10.35 | 1.32 | 176 | 117,596 | 1,857 | 7.40 | 722.86 | 438.49 | 154.56 | 365.57 | 299.15 | 258.76 |
| 10/23/02 8:52 PM | 10.35 | 1.32 | 176 | 116,019 | 1,945 | 7.33 | 892.01 | 427.01 | 147.61 | 365.08 | 297.19 | 257.97 |
| 10/23/02 8:53 PM | 10.35 | 1.32 | 176 | 115,172 | 2,334 | 7.39 | 1111.92 | 416.56 | 144.39 | 364.35 | 295.97 | 258.24 |
| 10/23/02 8:54 PM | 10.35 | 1.32 | 176 | 116,246 | 1,674 | 7.42 | 1870.21 | 400.64 | 151.13 | 363.85 | 294.99 | 257.91 |
| 10/23/02 8:55 PM | 10.35 | 1.32 | 176 | 114,783 | 2,400 | 7.37 | 1108.07 | 415.30 | 147.73 | 363.37 | 296.21 | 258.24 |
| 10/23/02 8:56 PM | 10.35 | 1.32 | 176 | 115,479 | 1,937 | 7.43 | 1090.25 | 402.41 | 153.10 | 362.64 | 296.95 | 258.18 |
| 10/23/02 8:57 PM | 10.35 | 1.32 | 176 | 115,854 | 1,641 | 7.35 | 921.57 | 413.83 | 154.84 | 362.15 | 297.68 | 258.53 |
| 10/23/02 8:58 PM | 10.35 | 1.32 | 176 | 116,327 | 1,879 | 7.43 | 1024.30 | 401.42 | 155.09 | 361.66 | 297.92 | 258.85 |
| 10/23/02 8:59 PM | 10.35 | 1.32 | 176 | 115,361 | 2,158 | 7.54 | 882.75 | 407.35 | 149.58 | 360.93 | 298.66 | 258.85 |
| 10/23/02 9:00 PM | 10.35 | 1.32 | 176 | 116,276 | 1,714 | 7.52 | 745.77 | 428.49 | 146.12 | 360.44 | 297.92 | 259.38 |
| 10/23/02 9:01 PM | 10.35 | 1.32 | 176 | 116,158 | 1,945 | 7.50 | 783.48 | 414.34 | 146.84 | 359.95 | 299.63 | 258.94 |
| 10/23/02 9:02 PM | 10.35 | 1.32 | 176 | 116,873 | 2,132 | 7.48 | 728.40 | 424.94 | 150.04 | 359.22 | 300.85 | 260.01 |
| 10/23/02 9:03 PM | 10.35 | 1.32 | 176 | 117,522 | 1,985 | 7.53 | 740.71 | 423.61 | 145.33 | 358.73 | 299.63 | 259.54 |
| 10/23/02 9:04 PM | 10.35 | 1.32 | 176 | 114,931 | 1,820 | 7.56 | 750.56 | 423.30 | 146.25 | 358.24 | 298.90 | 259.76 |
| 10/23/02 9:05 PM | 10.35 | 1.32 | 176 | 117,782 | 2,074 | 7.52 | 700.77 | 429.70 | 143.00 | 357.75 | 296.90 | 259.20 |
| 10/23/02 9:06 PM | 10.35 | 1.32 | 176 | 114,919 | 1,783 | 7.56 | 743.99 | 429.76 | 142.83 | 357.02 | 299.63 | 259.34 |
| 10/23/02 9:07 PM | 10.35 | 1.32 | 176 | 117,676 | 2,014 | 7.60 | 644.16 | 447.61 | 145.11 | 356.53 | 301.10 | 259.24 |
| 10/23/02 9:08 PM | 10.35 | 1.32 | 176 | 117,106 | 1,937 | 7.58 | 667.73 | 445.12 | 144.17 | 356.04 | 301.10 | 257.41 |
| 10/23/02 9:09 PM | 10.35 | 1.32 | 176 | 117,320 | 2,187 | 7.49 | 730.29 | 437.52 | 140.43 | 355.56 | 301.34 | 257.29 |
| 10/23/02 9:10 PM | 10.35 | 1.32 | 176 | 117,971 | 1,838 | 7.47 | 749.78 | 432.82 | 144.46 | 354.82 | 302.08 | 257.35 |
| 10/23/02 9:11 PM | 10.35 | 1.32 | 176 | 114,520 | 1,718 | 7.38 | 901.66 | 424.21 | 148.48 | 354.33 | 301.34 | 257.53 |
| 10/23/02 9:12 PM | 10.35 | 1.32 | 176 | 116,756 | 1,978 | 7.50 | 943.82 | 428.84 | 151.45 | 353.85 | 300.12 | 257.94 |
| 10/23/02 9:13 PM | 10.35 | 1.32 | 176 | 116,417 | 2,312 | 7.36 | 816.07 | 428.23 | 150.09 | 353.36 | 299.15 | 257.63 |
| 10/23/02 9:14 PM | 10.35 | 1.32 | 176 | 117,229 | 2,114 | 7.36 | 1048.27 | 412.97 | 147.89 | 352.63 | 299.88 | 257.65 |
| 10/23/02 9:15 PM | 10.35 | 1.32 | 176 | 117,360 | 1,853 | 7.35 | 1331.49 | 403.96 | 156.03 | 352.14 | 298.90 | 257.63 |
| 10/23/02 9:16 PM | 10.35 | 1.32 | 176 | 117,085 | 2,370 | 7.37 | 1067.10 | 411.10 | 154.36 | 351.65 | 298.66 | 258.27 |
| 10/23/02 9:17 PM | 10.34 | 1.32 | 176 | 114,630 | 2,440 | 7.40 | 1063.67 | 410.45 | 153.53 | 351.16 | 298.17 | 257.49 |
| 10/23/02 9:18 PM | 10.34 | 1.32 | 176 | 116,779 | 1,919 | 7.44 | 900.93 | 416.11 | 147.47 | 350.67 | 297.92 | 258.18 |
| 10/23/02 9:19 PM | 10.34 | 1.32 | 176 | 115,740 | 2,021 | 7.42 | 930.59 | 413.91 | 153.13 | 349.94 | 297.19 | 257.97 |
| 10/23/02 9:20 PM | 10.34 | 1.32 | 176 | 115,852 | 1,967 | 7.42 | 929.79 | 413.92 | 153.17 | 349.45 | 297.19 | 258.37 |
| 10/23/02 9:21 PM | 10.34 | 1.32 | 176 | 116,797 | 2,158 | 7.42 | 929.79 | 413.92 | 153.17 | 348.96 | 296.95 | 258.55 |
| 10/23/02 9:22 PM | 10.34 | 1.32 | 176 | 117,727 | 2,099 | 7.46 | 964.41 | 411.92 | 153.66 | 348.23 | 296.95 | 258.55 |
| 10/23/02 9:23 PM | 10.34 | 1.32 | 176 | 116,021 | 2,114 | 7.43 | 823.75 | 417.56 | 153.34 | 347.74 | 296.95 | 258.60 |
| 10/23/02 9:24 PM | 10.34 | 1.31 | 176 | 116,691 | 2,088 | 7.41 | 809.48 | 415.90 | 149.33 | 347.01 | 297.68 | 258.27 |
| 10/23/02 9:25 PM | 10.34 | 1.31 | 176 | 117,751 | 2,268 | 7.34 | 934.08 | 402.68 | 147.70 | 346.52 | 298.41 | 259.69 |
| Averages | 10.34 | 1.32 | 177.26 | 116,759 | 1,993 | 7.54 | 939.0 | 384.0 | 159.93 | 374.33 | 348.65 | 267.93 |

Ash Grove Cement
Seattle, WA

Run 8 Raw Mill Off



| [redacted] | Kiln Coal tons/hour 410.WF1.Ft | Calciner Coal tons/hour 410.WF2.Ft | Kiln feed rate tons/hour 412.PG24.FC1 | One Minute Average Flow (DSCFM) 413.2K1.FT10K | Tire feed Rate in pounds/hour 415.SW1.Ft | One Minute Average O2 (%) 413.2K1.AI10K | One Minute Average CO (ppm) 413.2K1.AI20K | One Minute Average NOx (ppm) 413.2K1.AI30K | One Minute Average SO2 (ppm) 413.2K1.AI40K | Three Hour Rolling Ave. (%) PCNACT | Baghouse Inlet Temp Deg f 413.BF4.Tt1 | Stack Gas Temperature Deg f 413.2K1.Tt1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 7:43 AM | 10.49 | 1.61 | 178 | 107,464 | 2,074 | 6.31 | 849.36 | 513.38 | 200.00 | 465.45 | 491.62 | 419.41 |
| 10/24/02 7:44 AM | 10.49 | 1.61 | 178 | 106,941 | 1,802 | 6.14 | 943.04 | 526.61 | 200.00 | 465.45 | 491.58 | 420.02 |
| 10/24/02 7:45 AM | 10.49 | 1.61 | 178 | 108,187 | 2,253 | 6.22 | 866.11 | 516.69 | 200.00 | 465.69 | 490.84 | 420.33 |
| 10/24/02 7:46 AM | 10.49 | 1.61 | 178 | 106,840 | 2,132 | 6.07 | 922.29 | 517.05 | 200.00 | 465.93 | 490.60 | 420.62 |
| 10/24/02 7:47 AM | 10.49 | 1.61 | 178 | 108,167 | 2,085 | 6.23 | 1047.94 | 519.57 | 200.00 | 465.93 | 490.11 | 420.71 |
| 10/24/02 7:48 AM | 10.49 | 1.61 | 178 | 106,833 | 1,945 | 6.11 | 972.89 | 521.39 | 200.00 | 466.18 | 489.62 | 420.71 |
| 10/24/02 7:49 AM | 10.49 | 1.61 | 178 | 106,293 | 1,945 | 8.21 | 942.51 | 519.96 | 200.00 | 466.18 | 489.38 | 420.04 |
| 10/24/02 7:50 AM | 10.49 | 1.61 | 178 | 107,123 | 2,246 | 6.26 | 1094.84 | 495.89 | 200.00 | 466.42 | 488.89 | 420.63 |
| 10/24/02 7:51 AM | 10.49 | 1.61 | 179 | 106,863 | 1,531 | 6.18 | 916.11 | 523.40 | 200.00 | 466.67 | 489.13 | 420.11 |
| 10/24/02 7:52 AM | 10.49 | 1.61 | 178 | 105,400 | 1,956 | 6.07 | 925.98 | 532.87 | 200.00 | 466.67 | 489.38 | 419.47 |
| 10/24/02 7:53 AM | 10.49 | 1.61 | 178 | 105,766 | 1,707 | 6.04 | 885.48 | 534.13 | 200.00 | 466.91 | 490.35 | 420.18 |
| 10/24/02 7:54 AM | 10.49 | 1.61 | 178 | 105,481 | 2,052 | 6.06 | 843.62 | 528.61 | 200.00 | 466.91 | 491.09 | 420.63 |
| 10/24/02 7:55 AM | 10.49 | 1.61 | 178 | 104,655 | 2,586 | 5.98 | 811.90 | 528.45 | 200.00 | 467.16 | 491.82 | 420.64 |
| 10/24/02 7:56 AM | 10.49 | 1.61 | 178 | 105,400 | 2,063 | 6.05 | 835.76 | 530.39 | 200.00 | 467.40 | 492.06 | 420.64 |
| 10/24/02 7:57 AM | 10.49 | 1.61 | 178 | 107,155 | 1,553 | 5.99 | 811.61 | 542.11 | 200.00 | 467.40 | 492.80 | 420.95 |
| 10/24/02 7:58 AM | 10.49 | 1.61 | 178 | 104,736 | 2,037 | 6.09 | 783.89 | 553.11 | 200.00 | 467.64 | 492.80 | 420.83 |
| 10/24/02 7:59 AM | 10.49 | 1.61 | 178 | 104,409 | 2,003 | 5.96 | 782.59 | 542.38 | 200.00 | 467.64 | 493.04 | 421.46 |
| 10/24/02 8:00 AM | 10.49 | 1.61 | 178 | 105,029 | 2,253 | 6.09 | 853.73 | 514.75 | 200.00 | 467.89 | 493.53 | 422.11 |
| 10/24/02 8:01 AM | 10.49 | 1.61 | 178 | 103,064 | 1,703 | 5.96 | 850.95 | 508.26 | 200.00 | 468.13 | 494.26 | 421.57 |
| 10/24/02 8:02 AM | 10.49 | 1.61 | 178 | 103,762 | 2,264 | 5.84 | 865.58 | 500.76 | 200.00 | 468.13 | 494.26 | 421.83 |
| 10/24/02 8:03 AM | 10.49 | 1.61 | 178 | 106,300 | 1,871 | 5.79 | 1880.72 | 489.73 | 200.00 | 468.38 | 494.26 | 422.77 |
| 10/24/02 8:04 AM | 10.49 | 1.61 | 178 | 106,114 | 2,025 | 6.16 | 1767.11 | 450.99 | 200.00 | 468.38 | 493.04 | 422.27 |
| 10/24/02 8:05 AM | 10.49 | 1.61 | 178 | 106,351 | 1,992 | 6.10 | 1263.30 | 467.67 | 200.00 | 468.62 | 492.31 | 422.65 |
| 10/24/02 8:06 AM | 10.49 | 1.61 | 178 | 105,987 | 1,985 | 6.15 | 982.05 | 492.34 | 200.00 | 468.86 | 491.82 | 422.77 |
| 10/24/02 8:07 AM | 10.49 | 1.61 | 178 | 104,761 | 1,860 | 6.07 | 1214.63 | 464.13 | 200.00 | 468.86 | 491.58 | 422.79 |
| 10/24/02 8:08 AM | 10.49 | 1.61 | 178 | 105,191 | 2,268 | 6.34 | 982.40 | 477.16 | 200.00 | 469.11 | 491.09 | 422.22 |
| 10/24/02 8:09 AM | 10.49 | 1.61 | 178 | 106,594 | 1,531 | 6.13 | 890.85 | 472.48 | 200.00 | 469.35 | 490.60 | 423.07 |
| 10/24/02 8:10 AM | 10.49 | 1.61 | 178 | 107,271 | 2,063 | 6.33 | 934.23 | 474.82 | 200.00 | 469.35 | 490.35 | 423.08 |
| 10/24/02 8:11 AM | 10.49 | 1.61 | 178 | 105,860 | 2,143 | 6.14 | 866.91 | 473.61 | 200.00 | 469.60 | 490.35 | 423.69 |
| 10/24/02 8:12 AM | 10.49 | 1.61 | 178 | 106,579 | 2,192 | 6.22 | 889.74 | 466.76 | 200.00 | 469.84 | 490.84 | 423.39 |
| 10/24/02 8:13 AM | 10.49 | 1.61 | 178 | 104,702 | 1,890 | 5.93 | 937.01 | 458.77 | 200.00 | 470.09 | 491.33 | 422.52 |
| 10/24/02 8:14 AM | 10.49 | 1.61 | 178 | 105,993 | 1,868 | 6.20 | 1669.09 | 462.32 | 200.00 | 470.09 | 491.33 | 421.90 |
| 10/24/02 8:15 AM | 10.49 | 1.61 | 178 | 105,342 | 1,685 | 5.90 | 1082.73 | 467.24 | 200.00 | 470.33 | 491.09 | 422.35 |
| 10/24/02 8:16 AM | 10.49 | 1.61 | 178 | 106,349 | 2,466 | 5.94 | 1220.91 | 453.96 | 200.00 | 470.57 | 491.09 | 422.46 |
| 10/24/02 8:17 AM | 10.49 | 1.61 | 178 | 105,804 | 1,791 | 5.79 | 1112.19 | 460.63 | 200.00 | 470.82 | 491.09 | 423.04 |
| 10/24/02 8:18 AM | 10.49 | 1.61 | 178 | 106,621 | 1,842 | 5.79 | 1417.02 | 452.49 | 200.00 | 471.06 | 491.33 | 422.75 |
| 10/24/02 8:19 AM | 10.49 | 1.61 | 178 | 103,479 | 1,802 | 5.99 | 1319.30 | 452.99 | 200.00 | 471.06 | 491.33 | 422.97 |
| 10/24/02 8:20 AM | 10.49 | 1.61 | 178 | 105,919 | 2,751 | 5.99 | 1318.68 | 452.99 | 200.00 | 471.31 | 492.06 | 423.09 |
| 10/24/02 8:21 AM | 10.49 | 1.62 | 178 | 104,798 | 2,429 | 5.99 | 1318.68 | 452.99 | 200.00 | 471.55 | 492.31 | 423.68 |
| 10/24/02 8:22 AM | 10.49 | 1.62 | 178 | 104,780 | 2,143 | 5.80 | 1058.83 | 472.57 | 200.00 | 471.79 | 492.80 | 424.18 |
| 10/24/02 8:23 AM | 10.49 | 1.62 | 178 | 105,654 | 1,813 | 5.91 | 1186.84 | 457.47 | 200.00 | 472.04 | 492.55 | 424.42 |
| 10/24/02 8:24 AM | 10.49 | 1.62 | 178 | 106,561 | 2,070 | 5.85 | 1112.10 | 459.24 | 200.00 | 472.28 | 492.80 | 423.99 |
| 10/24/02 8:25 AM | 10.49 | 1.62 | 178 | 104,933 | 1,967 | 6.07 | 1052.35 | 460.96 | 200.00 | 472.28 | 493.04 | 424.38 |
| 10/24/02 8:26 AM | 10.49 | 1.62 | 178 | 106,240 | 2,162 | 6.03 | 891.27 | 467.57 | 200.00 | 472.53 | 492.80 | 425.20 |
| 10/24/02 8:27 AM | 10.49 | 1.62 | 178 | 106,573 | 1,736 | 6.26 | 845.62 | 465.42 | 200.00 | 472.77 | 492.31 | 425.02 |
| 10/24/02 8:28 AM | 10.49 | 1.62 | 178 | 105,059 | 1,974 | 5.90 | 817.36 | 451.17 | 200.00 | 473.02 | 492.55 | 424.60 |
| 10/24/02 8:29 AM | 10.49 | 1.62 | 178 | 106,018 | 1,736 | 6.03 | 1082.85 | 432.64 | 200.00 | 473.26 | 492.31 | 425.51 |
| 10/24/02 8:30 AM | 10.49 | 1.62 | 178 | 104,694 | 1,743 | 5.71 | 1062.44 | 427.21 | 200.00 | 473.50 | 492.06 | 425.55 |
| 10/24/02 8:31 AM | 10.49 | 1.62 | 178 | 101,902 | 1,714 | 5.92 | 1576.61 | 418.00 | 200.00 | 473.50 | 492.06 | 425.57 |
| 10/24/02 8:32 AM | 10.49 | 1.62 | 178 | 103,239 | 2,055 | 5.88 | 1574.22 | 411.49 | 200.00 | 473.75 | 491.82 | 425.82 |
| 10/24/02 8:33 AM | 10.49 | 1.62 | 178 | 105,006 | 1,890 | 6.00 | 1249.40 | 426.62 | 200.00 | 473.99 | 491.82 | 425.52 |
| 10/24/02 8:34 AM | 10.49 | 1.62 | 178 | 104,371 | 1,761 | 5.84 | 1275.79 | 425.01 | 200.00 | 474.24 | 492.31 | 426.39 |
| 10/24/02 8:35 AM | 10.49 | 1.62 | 178 | 104,955 | 2,217 | 5.96 | 1162.83 | 436.18 | 200.00 | 474.48 | 492.80 | 425.95 |
| 10/24/02 8:36 AM | 10.49 | 1.61 | 178 | 103,856 | 2,180 | 5.95 | 1292.90 | 423.45 | 200.00 | 474.73 | 492.80 | 425.60 |
| 10/24/02 8:37 AM | 10.49 | 1.61 | 178 | 105,043 | 2,052 | 6.02 | 1209.45 | 425.78 | 200.00 | 474.73 | 492.55 | 425.50 |
| 10/24/02 8:38 AM | 10.49 | 1.61 | 178 | 106,018 | 2,121 | 6.02 | 1186.53 | 432.99 | 200.00 | 474.97 | 492.55 | 425.82 |
| 10/24/02 8:39 AM | 10.49 | 1.61 | 178 | 103,915 | 2,722 | 5.96 | 1073.45 | 439.86 | 200.00 | 475.21 | 492.31 | 425.52 |
| 10/24/02 8:40 AM | 10.49 | 1.61 | 178 | 105,203 | 1,974 | 5.91 | 1257.63 | 425.20 | 200.00 | 475.46 | 492.55 | 425.21 |
| 10/24/02 8:41 AM | 10.49 | 1.61 | 178 | 107,445 | 1,582 | 5.92 | 1178.24 | 432.87 | 200.00 | 475.70 | 492.80 | 425.37 |
| 10/24/02 8:42 AM | 10.49 | 1.61 | 178 | 106,962 | 1,985 | 5.92 | 1187.43 | 430.33 | 200.00 | 475.70 | 493.28 | 426.25 |
| 10/24/02 8:43 AM | 10.49 | 1.61 | 178 | 107,565 | 2,129 | 6.00 | 1194.41 | 439.51 | 200.00 | 475.95 | 493.28 | 425.80 |
| 10/24/02 8:44 AM | 10.49 | 1.61 | 178 | 105,900 | 1,794 | 6.09 | 976.79 | 443.17 | 200.00 | 476.19 | 493.53 | 425.59 |
| 10/24/02 8:45 AM | 10.49 | 1.61 | 178 | 107,782 | 1,648 | 5.96 | 921.17 | 447.52 | 200.00 | 476.43 | 494.02 | 426.32 |
| 10/24/02 8:46 AM | 10.49 | 1.61 | 178 | 106,116 | 1,783 | 6.01 | 1008.84 | 443.01 | 200.00 | 476.68 | 494.02 | 425.91 |
| 10/24/02 8:47 AM | 10.49 | 1.61 | 178 | 106,180 | 2,363 | 5.85 | 1107.77 | 438.84 | 200.00 | 476.92 | 494.02 | 426.56 |
| 10/24/02 8:48 AM | 10.49 | 1.61 | 178 | 105,578 | 1,794 | 6.07 | 1292.18 | 435.73 | 200.00 | 476.92 | 493.53 | 426.10 |
| 10/24/02 8:49 AM | 10.49 | 1.61 | 178 | 105,845 | 2,007 | 6.02 | 1035.55 | 451.36 | 200.00 | 477.17 | 493.53 | 426.72 |
| 10/24/02 8:50 AM | 10.49 | 1.61 | 178 | 106,546 | 1,866 | 6.14 | 1010.29 | 445.20 | 200.00 | 477.41 | 493.77 | 426.13 |
| 10/24/02 8:51 AM | 10.49 | 1.62 | 178 | 106,663 | 2,422 | 5.95 | 975.53 | 437.80 | 200.00 | 477.66 | 493.77 | 427.06 |
| 10/24/02 8:52 AM | 10.49 | 1.62 | 178 | 104,729 | 1,974 | 5.91 | 1019.06 | 448.58 | 200.00 | 477.90 | 494.02 | 427.18 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 8:53 AM | 10.49 | 1.62 | 178 | 104,675 | 2,312 | 6.00 | 1070.17 | 448.75 | 200.00 | 477.90 | 494.02 | 427.35 |
| 10/24/02 8:54 AM | 10.49 | 1.62 | 178 | 107,775 | 1,476 | 6.44 | 1170.91 | 431.04 | 200.00 | 478.14 | 492.80 | 427.79 |
| 10/24/02 8:55 AM | 10.49 | 1.62 | 178 | 108,321 | 1,956 | 6.32 | 1000.44 | 439.49 | 200.00 | 478.39 | 491.62 | 427.36 |
| 10/24/02 8:56 AM | 10.49 | 1.62 | 178 | 108,680 | 2,458 | 6.53 | 966.99 | 440.07 | 200.00 | 478.63 | 490.50 | 426.75 |
| 10/24/02 8:57 AM | 10.49 | 1.62 | 178 | 108,380 | 2,374 | 6.37 | 864.58 | 447.82 | 200.00 | 478.63 | 489.87 | 426.47 |
| 10/24/02 8:58 AM | 10.49 | 1.62 | 178 | 107,486 | 1,926 | 6.29 | 833.23 | 450.58 | 200.00 | 478.88 | 489.87 | 425.81 |
| 10/24/02 8:59 AM | 10.49 | 1.62 | 178 | 105,629 | 1,600 | 5.94 | 993.32 | 432.85 | 200.00 | 479.12 | 490.60 | 426.46 |
| 10/24/02 9:00 AM | 10.49 | 1.62 | 178 | 106,640 | 1,707 | 6.04 | 1236.44 | 426.95 | 200.00 | 479.37 | 491.09 | 425.79 |
| 10/24/02 9:01 AM | 10.49 | 1.62 | 178 | 106,077 | 1,703 | 6.04 | 1167.28 | 432.08 | 200.00 | 479.37 | 492.06 | 425.83 |
| 10/24/02 9:02 AM | 10.49 | 1.62 | 178 | 105,056 | 2,074 | 6.13 | 915.30 | 456.85 | 200.00 | 479.61 | 492.06 | 425.90 |
| 10/24/02 9:03 AM | 10.49 | 1.62 | 178 | 104,123 | 1,959 | 5.97 | 855.90 | 444.83 | 200.00 | 479.85 | 492.80 | 426.13 |
| 10/24/02 9:04 AM | 10.49 | 1.62 | 178 | 105,387 | 2,052 | 5.86 | 879.86 | 444.06 | 200.00 | 480.10 | 493.28 | 426.13 |
| 10/24/02 9:05 AM | 10.49 | 1.62 | 178 | 104,148 | 2,025 | 5.63 | 1272.61 | 413.86 | 200.00 | 480.10 | 494.02 | 426.13 |
| 10/24/02 9:06 AM | 10.49 | 1.62 | 178 | 104,791 | 2,326 | 5.83 | 1993.86 | 397.97 | 200.00 | 480.34 | 494.26 | 427.04 |
| 10/24/02 9:07 AM | 10.49 | 1.62 | 178 | 104,310 | 2,239 | 5.94 | 1719.81 | 404.04 | 200.00 | 480.59 | 493.77 | 426.74 |
| 10/24/02 9:08 AM | 10.49 | 1.62 | 178 | 104,799 | 1,626 | 5.93 | 1466.78 | 412.73 | 200.00 | 480.83 | 493.53 | 426.33 |
| 10/24/02 9:09 AM | 10.49 | 1.62 | 178 | 105,878 | 2,345 | 6.01 | 1374.79 | 409.74 | 200.00 | 481.07 | 493.04 | 426.43 |
| 10/24/02 9:10 AM | 10.49 | 1.62 | 178 | 105,991 | 2,304 | 6.07 | 1338.79 | 408.57 | 200.00 | 481.07 | 492.80 | 426.74 |
| 10/24/02 9:11 AM | 10.49 | 1.62 | 178 | 106,946 | 1,963 | 6.24 | 1939.99 | 411.27 | 200.00 | 481.32 | 491.82 | 427.28 |
| 10/24/02 9:12 AM | 10.49 | 1.62 | 178 | 107,025 | 1,600 | 6.16 | 1265.07 | 407.91 | 200.00 | 481.56 | 491.58 | 426.75 |
| 10/24/02 9:13 AM | 10.49 | 1.62 | 178 | 105,443 | 1,919 | 6.29 | 1072.06 | 426.84 | 200.00 | 481.81 | 491.33 | 426.98 |
| 10/24/02 9:14 AM | 10.49 | 1.62 | 178 | 107,331 | 1,472 | 6.18 | 1080.20 | 425.47 | 200.00 | 482.05 | 491.09 | 427.45 |
| 10/24/02 9:15 AM | 10.49 | 1.62 | 178 | 107,612 | 1,809 | 6.23 | 1011.64 | 429.21 | 200.00 | 482.05 | 490.60 | 427.03 |
| 10/24/02 9:16 AM | 10.49 | 1.62 | 178 | 106,822 | 1,465 | 6.09 | 1120.98 | 417.95 | 200.00 | 482.30 | 490.11 | 426.74 |
| 10/24/02 9:17 AM | 10.49 | 1.62 | 178 | 104,859 | 2,253 | 6.26 | 1144.02 | 411.70 | 200.00 | 482.54 | 489.87 | 426.25 |
| 10/24/02 9:18 AM | 10.49 | 1.62 | 178 | 106,663 | 1,589 | 6.09 | 1113.13 | 422.69 | 200.00 | 482.78 | 490.11 | 427.04 |
| 10/24/02 9:19 AM | 10.49 | 1.62 | 178 | 107,476 | 2,766 | 6.24 | 1118.74 | 426.05 | 200.00 | 482.78 | 490.11 | 427.05 |
| 10/24/02 9:20 AM | 10.49 | 1.62 | 178 | 108,141 | 1,802 | 6.35 | 1119.05 | 426.13 | 200.00 | 483.03 | 490.60 | 427.52 |
| 10/24/02 9:21 AM | 10.49 | 1.61 | 178 | 106,097 | 2,074 | 6.35 | 1119.05 | 426.13 | 200.00 | 483.27 | 490.60 | 426.16 |
| 10/24/02 9:22 AM | 10.49 | 1.61 | 178 | 106,734 | 2,003 | 6.33 | 768.17 | 450.16 | 200.00 | 483.52 | 490.60 | 427.24 |
| 10/24/02 9:23 AM | 10.49 | 1.61 | 178 | 105,689 | 1,886 | 6.47 | 769.65 | 446.27 | 200.00 | 483.76 | 490.35 | 428.75 |
| 10/24/02 9:24 AM | 10.49 | 1.61 | 178 | 106,052 | 1,959 | 6.48 | 717.18 | 453.43 | 200.00 | 483.76 | 490.84 | 426.43 |
| 10/24/02 9:25 AM | 10.49 | 1.61 | 178 | 106,330 | 1,890 | 6.39 | 662.54 | 469.47 | 200.00 | 484.00 | 491.09 | 426.15 |
| 10/24/02 9:26 AM | 10.49 | 1.61 | 178 | 105,175 | 2.187 | 6.16 | 723.05 | 450.92 | 200.00 | 484.25 | 491.58 | 426.43 |
| 10/24/02 9:27 AM | 10.49 | 1.61 | 178 | 105,361 | 2,268 | 6.08 | 801.03 | 446.16 | 200.00 | 484.49 | 491.82 | 426.73 |
| 10/24/02 9:28 AM | 10.49 | 1.61 | 178 | 106,238 | 1,897 | 6.05 | 942.06 | 427.31 | 200.00 | 484.74 | 492.31 | 427.04 |
| 10/24/02 9:29 AM | 10.49 | 1.61 | 178 | 106,432 | 1,501 | 6.17 | 868.58 | 438.38 | 200.00 | 484.98 | 492.80 | 426.81 |
| 10/24/02 9:30 AM | 10.49 | 1.61 | 178 | 106,495 | 2,433 | 6.24 | 806.87 | 442.08 | 200.00 | 485.23 | 493.04 | 426.98 |
| 10/24/02 9:31 AM | 10.49 | 1.61 | 178 | 106,052 | 2,055 | 6.27 | 747.01 | 445.40 | 200.00 | 485.47 | 493.28 | 427.58 |
| 10/24/02 9:32 AM | 10.49 | 1.61 | 178 | 105,536 | 2,495 | 6.23 | 715.72 | 452.28 | 200.00 | 485.71 | 493.53 | 427.42 |
| 10/24/02 9:33 AM | 10.49 | 1.61 | 178 | 104,712 | 1,860 | 6.16 | 751.30 | 438.52 | 200.00 | 485.96 | 493.77 | 426.90 |
| 10/24/02 9:34 AM | 10.49 | 1.61 | 178 | 105,861 | 1,388 | 6.15 | 748.18 | 441.97 | 200.00 | 485.96 | 493.53 | 427.27 |
| 10/24/02 9:35 AM | 10.49 | 1.61 | 178 | 108,452 | 2.524 | 6.24 | 745.56 | 445.22 | 200.00 | 486.20 | 493.53 | 427.96 |
| 10/24/02 9:36 AM | 10.49 | 1.62 | 178 | 105,709 | 2,129 | 6.22 | 706.52 | 445.16 | 200.00 | 486.45 | 493.28 | 427.96 |
| 10/24/02 9:37 AM | 10.49 | 1.62 | 178 | 105,814 | 1,985 | 6.03 | 724.77 | 462.56 | 200.00 | 486.69 | 493.53 | 427.58 |
| 10/24/02 9:38 AM | 10.49 | 1.62 | 178 | 104,432 | 1,772 | 5.98 | 820.98 | 448.13 | 200.00 | 486.94 | 494.02 | 428.26 |
| 10/24/02 9:39 AM | 10.49 | 1.62 | 178 | 103,683 | 1,919 | 6.13 | 830.23 | 454.16 | 200.00 | 487.18 | 494.02 | 428.62 |
| 10/24/02 9:40 AM | 10.49 | 1.62 | 178 | 105,426 | 2,572 | 6.35 | 747.90 | 469.94 | 200.00 | 487.42 | 493.53 | 428.84 |
| 10/24/02 9:41 AM | 10.49 | 1.62 | 178 | 105,727 | 2,021 | 6.22 | 696.26 | 472.18 | 200.00 | 487.67 | 493.53 | 429.22 |
| 10/24/02 9:42 AM | 10.49 | 1.62 | 178 | 106,176 | 1,626 | 6.15 | 723.84 | 453.46 | 200.00 | 487.91 | 493.53 | 428.88 |
| 10/24/02 9:43 AM | 10.49 | 1.62 | 178 | 105,154 | 2,129 | 6.00 | 864.86 | 425.95 | 200.00 | 488.16 | 493.53 | 429.06 |
| 10/24/02 9:44 AM | 10.49 | 1.62 | 178 | 106,874 | 1,743 | 6.25 | 946.49 | 414.60 | 200.00 | 488.40 | 493.28 | 428.90 |
| 10/24/02 9:45 AM | 10.49 | 1.62 | 178 | 107,939 | 1,978 | 6.33 | 924.05 | 435.88 | 200.00 | 488.40 | 492.80 | 428.88 |
| 10/24/02 9:46 AM | 10.49 | 1.62 | 178 | 108,497 | 1,849 | 6.46 | 738.49 | 466.14 | 200.00 | 488.64 | 492.06 | 428.59 |
| 10/24/02 9:47 AM | 10.49 | 1.62 | 178 | 107,522 | 2,330 | 6.32 | 704.03 | 468.22 | 200.00 | 488.89 | 491.58 | 427.89 |
| 10/24/02 9:48 AM | 10.49 | 1.62 | 178 | 106,718 | 2,411 | 6.20 | 744.45 | 453.15 | 200.00 | 489.13 | 491.09 | 427.66 |
| 10/24/02 9:49 AM | 10.49 | 1.62 | 178 | 106,559 | 2,235 | 6.07 | 912.72 | 431.01 | 200.00 | 489.38 | 491.33 | 427.93 |
| 10/24/02 9:50 AM | 10.49 | 1.62 | 178 | 107,756 | 1,571 | 5.25 | 944.85 | 429.84 | 200.00 | 489.38 | 490.84 | 427.65 |
| 10/24/02 9:51 AM | 10.49 | 1.61 | 178 | 107,891 | 1,754 | 6.22 | 823.35 | 441.62 | 200.00 | 489.62 | 490.84 | 427.81 |
| 10/24/02 9:52 AM | 10.49 | 1.61 | 178 | 106,643 | 1,501 | 6.27 | 751.49 | 444.82 | 200.00 | 489.87 | 490.84 | 428.00 |
| 10/24/02 9:53 AM | 10.49 | 1.61 | 178 | 107,271 | 2,751 | 6.22 | 775.81 | 421.14 | 200.00 | 489.87 | 490.84 | 427.66 |
| 10/24/02 9:54 AM | 10.49 | 1.61 | 178 | 105,123 | 1,447 | 6.22 | 770.03 | 420.95 | 200.00 | 490.11 | 490.84 | 427.96 |
| 10/24/02 9:55 AM | 10.49 | 1.61 | 178 | 105,718 | 1,743 | 6.12 | 828.09 | 413.43 | 200.00 | 490.35 | 490.35 | 427.96 |
| 10/24/02 9:56 AM | 10.49 | 1.61 | 178 | 105,983 | 2,151 | 6.35 | 868.37 | 416.26 | 200.00 | 490.35 | 490.11 | 428.11 |
| 10/24/02 9:57 AM | 10.49 | 1.61 | 178 | 106,591 | 1,934 | 6.27 | 728.55 | 421.35 | 200.00 | 490.60 | 489.87 | 428.79 |
| 10/24/02 9:58 AM | 10.49 | 1.61 | 178 | 107,129 | 2,283 | 6.22 | 703.62 | 418.42 | 200.00 | 490.84 | 490.35 | 428.72 |
| 10/24/02 9:59 AM | 10.49 | 1.61 | 178 | 106,284 | 1,761 | 6.26 | 724.75 | 408.72 | 200.00 | 490.84 | 490.60 | 428.64 |
| 10/24/02 10:00 AM | 10.49 | 1.61 | 178 | 105,365 | 1,985 | 6.09 | 738.01 | 402.14 | 200.00 | 491.09 | 490.84 | 428.83 |
| 10/24/02 10:01 AM | 10.49 | 1.61 | 178 | 103,945 | 2,275 | 6.12 | 750.77 | 415.77 | 200.00 | 491.09 | 491.09 | 428.87 |
| 10/24/02 10:02 AM | 10.49 | 1.61 | 178 | 104,801 | 1,901 | 6.06 | 784.81 | 408.54 | 200.00 | 491.33 | 491.82 | 429.18 |
| 10/24/02 10:03 AM | 10.49 | 1.61 | 178 | 106,723 | 2,081 | 6.25 | 809.30 | 401.54 | 200.00 | 491.33 | 491.58 | 429.41 |
| 10/24/02 10:04 AM | 10.49 | 1.61 | 178 | 105,972 | 2,143 | 6.19 | 720.92 | 412.21 | 200.00 | 491.33 | 492.31 | 429.52 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 10:05 AM | 10.49 | 1.61 | 178 | 107,094 | 2,074 | 6.25 | 708.33 | 407.87 | 200.00 | 491.33 | 492.80 | 429.60 |
| 10/24/02 10:06 AM | 10.49 | 1.61 | 178 | 106,694 | 1,611 | 5.92 | 719.56 | 396.75 | 200.00 | 491.58 | 493.28 | 430.28 |
| 10/24/02 10:07 AM | 10.49 | 1.61 | 178 | 108,449 | 2,070 | 6.39 | 883.22 | 382.06 | 200.00 | 491.58 | 493.28 | 429.16 |
| 10/24/02 10:08 AM | 10.49 | 1.61 | 178 | 107,508 | 1,978 | 6.10 | 1261.40 | 384.10 | 200.00 | 491.58 | 493.04 | 429.18 |
| 10/24/02 10:09 AM | 10.49 | 1.61 | 178 | 108,006 | 1,956 | 5.19 | 993.92 | 371.69 | 200.00 | 491.58 | 492.80 | 429.09 |
| 10/24/02 10:10 AM | 10.49 | 1.61 | 178 | 106,370 | 2,074 | 5.99 | 912.36 | 380.83 | 200.00 | 491.58 | 493.04 | 429.63 |
| 10/24/02 10:11 AM | 10.49 | 1.61 | 178 | 106,661 | 1,512 | 5.94 | 935.26 | 392.81 | 200.00 | 491.82 | 493.28 | 429.25 |
| 10/24/02 10:12 AM | 10.49 | 1.61 | 178 | 107,184 | 1,890 | 5.65 | 1167.12 | 382.67 | 200.00 | 491.82 | 493.77 | 428.90 |
| 10/24/02 10:13 AM | 10.49 | 1.61 | 178 | 107,183 | 1,659 | 6.05 | 1115.55 | 371.90 | 200.00 | 491.82 | 494.02 | 429.49 |
| 10/24/02 10:14 AM | 10.49 | 1.61 | 178 | 107,881 | 1,945 | 6.10 | 1053.52 | 374.81 | 200.00 | 491.82 | 493.53 | 429.84 |
| 10/24/02 10:15 AM | 10.49 | 1.61 | 178 | 108,730 | 1,783 | 6.26 | 900.18 | 391.93 | 200.00 | 491.82 | 492.80 | 429.49 |
| 10/24/02 10:16 AM | 10.49 | 1.61 | 178 | 109,168 | 2,129 | 6.22 | 927.31 | 391.19 | 200.00 | 491.82 | 492.06 | 429.78 |
| 10/24/02 10:17 AM | 10.49 | 1.61 | 178 | 107,810 | 2,187 | 6.38 | 863.68 | 391.37 | 200.00 | 491.82 | 492.06 | 429.83 |
| 10/24/02 10:18 AM | 10.49 | 1.61 | 178 | 106,000 | 2,180 | 6.19 | 824.99 | 380.80 | 200.00 | 491.82 | 491.58 | 428.89 |
| 10/24/02 10:19 AM | 10.49 | 1.61 | 178 | 106,142 | 1,626 | 6.20 | 941.83 | 376.05 | 200.00 | 491.82 | 490.84 | 428.93 |
| 10/24/02 10:20 AM | 10.49 | 1.61 | 178 | 107,706 | 2,253 | 6.20 | 843.22 | 376.07 | 200.00 | 491.82 | 490.60 | 430.12 |
| 10/24/02 10:21 AM | 10.49 | 1.61 | 178 | 107,239 | 1,886 | 6.20 | 943.22 | 376.07 | 200.00 | 491.82 | 490.35 | 429.49 |
| 10/24/02 10:22 AM | 10.49 | 1.61 | 178 | 108,305 | 2,477 | 6.28 | 826.66 | 380.10 | 200.00 | 491.82 | 489.62 | 429.54 |
| 10/24/02 10:23 AM | 10.49 | 1.61 | 178 | 110,916 | 1,791 | 6.37 | 846.97 | 377.14 | 200.00 | 491.82 | 489.62 | 429.19 |
| 10/24/02 10:24 AM | 10.49 | 1.61 | 178 | 107,376 | 2,092 | 6.32 | 752.49 | 386.78 | 200.00 | 491.82 | 489.87 | 429.16 |
| 10/24/02 10:25 AM | 10.49 | 1.61 | 178 | 108,971 | 1,553 | 6.32 | 802.67 | 390.42 | 200.00 | 491.82 | 490.35 | 429.79 |
| 10/24/02 10:26 AM | 10.49 | 1.61 | 178 | 107,075 | 1,849 | 6.52 | 818.51 | 366.84 | 200.00 | 491.82 | 489.87 | 429.72 |
| 10/24/02 10:27 AM | 10.49 | 1.61 | 178 | 107,968 | 2,166 | 6.36 | 781.28 | 363.18 | 200.00 | 491.82 | 489.87 | 429.49 |
| 10/24/02 10:28 AM | 10.49 | 1.61 | 178 | 107,046 | 2,003 | 6.28 | 762.01 | 403.03 | 200.00 | 491.82 | 489.62 | 429.51 |
| 10/24/02 10:29 AM | 10.49 | 1.61 | 178 | 107,333 | 2,389 | 6.24 | 832.10 | 404.06 | 200.00 | 492.06 | 490.11 | 429.24 |
| 10/24/02 10:30 AM | 10.49 | 1.61 | 179 | 107,737 | 2,074 | 6.34 | 827.63 | 399.13 | 200.00 | 492.06 | 489.87 | 429.36 |
| 10/24/02 10:31 AM | 10.49 | 1.61 | 178 | 108,472 | 2,374 | 6.29 | 855.33 | 402.20 | 200.00 | 492.06 | 489.62 | 428.58 |
| 10/24/02 10:32 AM | 10.49 | 1.61 | 178 | 109,153 | 1,520 | 6.48 | 832.99 | 407.80 | 200.00 | 492.06 | 489.62 | 428.57 |
| 10/24/02 10:33 AM | 10.49 | 1.61 | 178 | 108,162 | 2,275 | 6.24 | 771.04 | 408.89 | 200.00 | 491.82 | 489.62 | 428.66 |
| 10/24/02 10:34 AM | 10.49 | 1.61 | 178 | 107,483 | 2,055 | 6.36 | 797.31 | 416.83 | 200.00 | 491.82 | 489.62 | 427.97 |
| 10/24/02 10:35 AM | 10.49 | 1.61 | 178 | 107,930 | 2,044 | 6.18 | 738.40 | 425.59 | 200.00 | 491.82 | 490.60 | 428.24 |
| 10/24/02 10:36 AM | 10.49 | 1.62 | 179 | 107,291 | 2,817 | 6.30 | 743.43 | 420.96 | 200.00 | 491.82 | 491.58 | 428.25 |
| 10/24/02 10:37 AM | 10.49 | 1.62 | 178 | 107,798 | 1,838 | 5.98 | 737.71 | 418.78 | 200.00 | 491.82 | 492.31 | 428.57 |
| 10/24/02 10:38 AM | 10.49 | 1.62 | 178 | 107,372 | 1,505 | 6.07 | 904.89 | 408.28 | 200.00 | 491.82 | 492.80 | 428.81 |
| 10/24/02 10:39 AM | 10.49 | 1.62 | 178 | 105,984 | 1,901 | 6.02 | 912.51 | 408.03 | 200.00 | 491.82 | 493.04 | 428.63 |
| 10/24/02 10:40 AM | 10.49 | 1.62 | 178 | 106,723 | 1,542 | 6.25 | 836.68 | 419.20 | 200.00 | 491.82 | 493.04 | 429.46 |
| 10/24/02 10:41 AM | 10.49 | 1.62 | 178 | 105,567 | 2,477 | 6.17 | 753.33 | 415.11 | 200.00 | 491.82 | 493.04 | 429.19 |
| 10/24/02 10:42 AM | 10.49 | 1.62 | 178 | 104,773 | 1,886 | 6.13 | 751.54 | 412.38 | 200.00 | 491.82 | 493.28 | 429.18 |
| 10/24/02 10:43 AM | 10.49 | 1.62 | 178 | 103,964 | 2,220 | 5.83 | 830.34 | 396.37 | 200.00 | 491.82 | 493.53 | 429.34 |
| 10/24/02 10:44 AM | 10.49 | 1.62 | 178 | 104,738 | 2,151 | 6.01 | 1053.91 | 389.54 | 200.00 | 491.82 | 493.53 | 428.97 |
| 10/24/02 10:45 AM | 10.49 | 1.62 | 178 | 107,986 | 0 | 6.12 | 1010.68 | 397.67 | 200.00 | 491.82 | 493.53 | 429.78 |
| 10/24/02 10:46 AM | 10.49 | 1.62 | 178 | 108,394 | 1,824 | 6.35 | 803.27 | 422.26 | 200.00 | 492.06 | 492.80 | 429.18 |
| 10/24/02 10:47 AM | 10.49 | 1.62 | 178 | 104,567 | 2,495 | 6.38 | 739.67 | 415.45 | 200.00 | 492.06 | 492.31 | 429.89 |
| 10/24/02 10:48 AM | 10.49 | 1.62 | 178 | 106,529 | 1,831 | 6.26 | 722.35 | 410.15 | 200.00 | 492.06 | 492.06 | 430.55 |
| 10/24/02 10:49 AM | 10.49 | 1.62 | 178 | 105,803 | 1,915 | 6.39 | 774.40 | 395.79 | 200.00 | 492.06 | 491.33 | 430.22 |
| 10/24/02 10:50 AM | 10.49 | 1.62 | 178 | 104,213 | 1,974 | 6.38 | 718.53 | 407.79 | 200.00 | 492.06 | 491.58 | 429.50 |
| 10/24/02 10:51 AM | 10.49 | 1.61 | 178 | 105,413 | 1,896 | 6.39 | 709.64 | 409.21 | 200.00 | 492.06 | 491.58 | 429.78 |
| Averages | 10.49 | 1.61 | 177.7 | 106,288 | 1,984 | 6.13 | 972.44 | 437.53 | 200.00 | 491.55 | 491.93 | 426.43 |

STR02589

D-27

11/22/02

SEA0367

AGCS2M001964

Ash Grove Cement
Seattle, WA

Run 5a Raw Mill Off



| [redacted] | Kiln Coal tons/hour 41C.WF1.FI1 | Calciner Coal tons/hour 41C.WF2.FI1 | Kiln feed rate tons/hour 412.FI2/4.FC1 | One Minute Average Flow (DSCFM) 413.2K1.FI10K | Tire feed Rate in pounds/hour 41F.BW1.FI1 | One Minute Average O2 (%) 413.2K1.AI10K | One Minute Average CO (ppm) 413.2K1.AI20K | One Minute Average NOx (ppm) 413.2K1.AI30K | One Minute Average SO2 (ppm) 413.2K1.AI40K | Three Hour Rolling Ave. (%) PCMACT | Baghouse Inlet Temp Deg f 413.BF1.TI1 | Stack Gas Temperature Deg f 413.2K1.TI1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 11:34 AM | 10.49 | 1.61 | 178 | 106,378 | 1,937 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 490.11 | 429.99 |
| 10/24/02 11:35 AM | 10.49 | 1.61 | 178 | 105,571 | 1,783 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 490.11 | 429.68 |
| 10/24/02 11:36 AM | 10.49 | 1.61 | 178 | 106,076 | 0 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 490.35 | 429.80 |
| 10/24/02 11:37 AM | 10.49 | 1.61 | 178 | 105,192 | 1,915 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 490.60 | 430.13 |
| 10/24/02 11:38 AM | 10.49 | 1.61 | 178 | 104,951 | 2,092 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.33 | 430.21 |
| 10/24/02 11:39 AM | 10.49 | 1.61 | 178 | 105,293 | 1,754 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.33 | 429.61 |
| 10/24/02 11:40 AM | 10.49 | 1.61 | 178 | 106,580 | 2,480 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.33 | 429.87 |
| 10/24/02 11:41 AM | 10.49 | 1.61 | 178 | 104,706 | 1,937 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.09 | 429.79 |
| 10/24/02 11:42 AM | 10.49 | 1.61 | 178 | 106,520 | 2,293 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.33 | 429.51 |
| 10/24/02 11:43 AM | 10.49 | 1.61 | 178 | 107,943 | 2,286 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.09 | 429.69 |
| 10/24/02 11:44 AM | 10.49 | 1.61 | 178 | 105,895 | 2,044 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.33 | 429.73 |
| 10/24/02 11:45 AM | 10.49 | 1.61 | 178 | 105,838 | 1,707 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.58 | 429.72 |
| 10/24/02 11:46 AM | 10.49 | 1.61 | 178 | 107,550 | 1,974 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.56 | 429.54 |
| 10/24/02 11:47 AM | 10.50 | 1.61 | 178 | 106,688 | 2,041 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.33 | 429.65 |
| 10/24/02 11:48 AM | 10.50 | 1.61 | 178 | 104,230 | 1,836 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.58 | 429.20 |
| 10/24/02 11:49 AM | 10.50 | 1.61 | 178 | 104,601 | 2,143 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.82 | 429.79 |
| 10/24/02 11:50 AM | 10.50 | 1.61 | 178 | 104,690 | 1,483 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 492.55 | 429.73 |
| 10/24/02 11:51 AM | 10.50 | 1.61 | 178 | 103,563 | 1,095 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 492.55 | 430.25 |
| 10/24/02 11:52 AM | 10.50 | 1.61 | 178 | 104,529 | 989 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 492.31 | 430.80 |
| 10/24/02 11:53 AM | 11.04 | 1.61 | 178 | 101,465 | 934 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.82 | 430.16 |
| 10/24/02 11:54 AM | 11.04 | 1.61 | 178 | 102,838 | 1,216 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 492.06 | 430.10 |
| 10/24/02 11:55 AM | 11.04 | 1.61 | 178 | 105,918 | 912 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 492.80 | 430.47 |
| 10/24/02 11:56 AM | 11.04 | 1.61 | 178 | 103,713 | 970 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 493.04 | 431.32 |
| 10/24/02 11:57 AM | 11.04 | 1.61 | 178 | 105,064 | 934 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 493.04 | 431.06 |
| 10/24/02 11:58 AM | 11.04 | 1.61 | 178 | 104,483 | 912 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 493.53 | 431.04 |
| 10/24/02 11:59 AM | 11.04 | 1.61 | 178 | 106,557 | 995 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 493.28 | 431.89 |
| 10/24/02 12:00 PM | 11.04 | 1.61 | 178 | 105,404 | 912 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 492.31 | 432.11 |
| 10/24/02 12:01 PM | 11.04 | 1.61 | 178 | 103,627 | 1,051 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.58 | 431.10 |
| 10/24/02 12:02 PM | 11.04 | 1.61 | 178 | 106,224 | 1,022 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 490.84 | 430.71 |
| 10/24/02 12:03 PM | 11.04 | 1.44 | 178 | 105,247 | 981 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 490.11 | 430.14 |
| 10/24/02 12:04 PM | 11.04 | 1.41 | 178 | 103,602 | 1,011 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 489.62 | 430.26 |
| 10/24/02 12:05 PM | 11.04 | 1.32 | 178 | 103,980 | 945 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 489.62 | 429.80 |
| 10/24/02 12:06 PM | 11.04 | 1.32 | 178 | 102,664 | 1,036 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 490.11 | 429.81 |
| 10/24/02 12:07 PM | 11.04 | 1.36 | 178 | 102,364 | 864 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 490.60 | 430.07 |
| 10/24/02 12:08 PM | 11.05 | 1.41 | 178 | 104,326 | 963 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 490.84 | 431.01 |
| 10/24/02 12:09 PM | 11.05 | 1.41 | 178 | 104,103 | 883 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 491.82 | 430.11 |
| 10/24/02 12:10 PM | 11.05 | 1.41 | 178 | 104,968 | 1,135 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 492.31 | 430.30 |
| 10/24/02 12:11 PM | 11.05 | 1.41 | 178 | 104,332 | 1,128 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 492.80 | 430.99 |
| 10/24/02 12:12 PM | 11.05 | 1.41 | 178 | 102,506 | 710 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 493.04 | 430.71 |
| 10/24/02 12:13 PM | 11.55 | 1.41 | 178 | 100,364 | 0 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 493.53 | 430.39 |
| 10/24/02 12:14 PM | 11.55 | 1.41 | 178 | 102,126 | 0 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 493.04 | 431.13 |
| 10/24/02 12:15 PM | 11.55 | 1.41 | 178 | 104,302 | 0 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 493.28 | 431.33 |
| 10/24/02 12:16 PM | 11.55 | 1.41 | 178 | 104,195 | 0 | 6.25 | 783.27 | 397.44 | 200.00 | 491.58 | 493.28 | 431.31 |
| 10/24/02 12:17 PM | 11.55 | 1.41 | 178 | 105,501 | 0 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 493.53 | 431.36 |
| 10/24/02 12:18 PM | 11.55 | 1.41 | 178 | 103,278 | 0 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 492.31 | 431.50 |
| 10/24/02 12:19 PM | 11.25 | 1.41 | 178 | 103,141 | 0 | 6.25 | 783.27 | 397.44 | 200.00 | 491.82 | 491.58 | 431.42 |
| | 10.89 | 1.53 | 177.70 | 104636 | 1158 | 6.25 | 783.27 | 397.44 | 200.00 | 491.75 | 491.76 | 430.38 |

STR02589

D-28

11/22/02

SEA0368

AGCS2M001965

Ash Grove Cement
Seattle, WA

Run 9b Raw Mill Off

| [redacted] | Kiln Coal tons/hour 41C.WF1.FI1 | Calciner Coal tons/hour 41C.WF2.FI1 | Kiln feed rate tons/hour 412.PG36.FC1 | One Minute Average Flow (DSCFM) 413.2K1.F10K | Tire feed Rate in pounds/hour 41F.BW1.FI1 | One Minute Average O2 (%) 413.2K1.AI10K | One Minute Average CO (ppm) 413.2K1.AI30K | One Minute Average NOx (ppm) 413.2K1.AI50K | One Minute Average SO2 (ppm) 413.2K1.AI60K | Three Hour Rolling Ave. (%) PCMACT | Baghouse Inlet Temp Deg f 413.BF1.TI1 | Stack Gas Temperature Deg f 413.2K1.TI5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 4:52 PM | 11.01 | 1.52 | 178 | 106,061 | 1,926 | 6.51 | 680.87 | 375.34 | 200.00 | 491.58 | 489.62 | 430.64 |
| 10/24/02 4:53 PM | 11.01 | 1.52 | 178 | 105,680 | 2,103 | 6.66 | 694.79 | 371.68 | 200.00 | 491.58 | 490.11 | 430.71 |
| 10/24/02 4:54 PM | 11.01 | 1.52 | 178 | 102,832 | 1,890 | 6.29 | 675.32 | 370.83 | 200.00 | 491.58 | 490.60 | 431.00 |
| 10/24/02 4:55 PM | 11.01 | 1.52 | 178 | 105,289 | 2,074 | 6.38 | 740.66 | 358.13 | 200.00 | 491.58 | 490.84 | 431.00 |
| 10/24/02 4:56 PM | 11.01 | 1.52 | 178 | 103,469 | 2,114 | 6.04 | 818.16 | 334.84 | 200.00 | 491.58 | 491.09 | 431.32 |
| 10/24/02 4:57 PM | 11.01 | 1.52 | 178 | 103,793 | 2,132 | 6.17 | 1073.17 | 312.73 | 200.00 | 491.58 | 491.09 | 430.89 |
| 10/24/02 4:58 PM | 11.01 | 1.52 | 178 | 102,987 | 2,121 | 6.04 | 1076.47 | 322.53 | 200.00 | 491.58 | 491.09 | 431.32 |
| 10/24/02 4:59 PM | 11.01 | 1.52 | 178 | 104,571 | 1,956 | 8.22 | 1026.03 | 328.67 | 200.00 | 491.58 | 491.33 | 431.02 |
| 10/24/02 5:00 PM | 11.01 | 1.52 | 178 | 105,044 | 1,637 | 6.16 | 993.70 | 331.20 | 200.00 | 491.58 | 491.58 | 431.32 |
| 10/24/02 5:01 PM | 11.01 | 1.52 | 178 | 103,927 | 2,132 | 5.15 | 925.64 | 332.83 | 200.00 | 491.58 | 491.82 | 430.78 |
| 10/24/02 5:02 PM | 11.01 | 1.52 | 178 | 103,496 | 2,334 | 6.20 | 1057.44 | 320.66 | 200.00 | 491.58 | 491.82 | 431.01 |
| 10/24/02 5:03 PM | 11.01 | 1.52 | 178 | 105,948 | 2,191 | 6.11 | 944.76 | 324.34 | 200.00 | 491.58 | 492.06 | 431.01 |
| 10/24/02 5:04 PM | 10.85 | 1.52 | 178 | 104,303 | 1,934 | 6.13 | 993.34 | 322.32 | 200.00 | 491.58 | 492.31 | 431.23 |
| 10/24/02 5:05 PM | 10.85 | 1.52 | 178 | 103,135 | 2,246 | 6.04 | 1015.54 | 322.73 | 200.00 | 491.58 | 493.04 | 430.94 |
| 10/24/02 5:06 PM | 10.85 | 1.52 | 178 | 102,992 | 1,685 | 6.06 | 1069.89 | 314.36 | 200.00 | 491.58 | 493.28 | 431.01 |
| 10/24/02 5:07 PM | 10.85 | 1.52 | 178 | 102,722 | 1,897 | 5.80 | 1141.06 | 307.78 | 200.00 | 491.58 | 493.77 | 431.01 |
| 10/24/02 5:08 PM | 10.85 | 1.52 | 178 | 103,801 | 2,021 | 6.02 | 1424.75 | 299.41 | 200.00 | 491.58 | 493.53 | 431.55 |
| 10/24/02 5:09 PM | 10.85 | 1.52 | 178 | 103,759 | 2,246 | 6.02 | 1321.88 | 298.39 | 200.00 | 491.58 | 493.28 | 431.61 |
| 10/24/02 5:10 PM | 10.85 | 1.52 | 178 | 102,116 | 1,978 | 6.24 | 1463.09 | 287.95 | 200.00 | 491.58 | 492.31 | 431.45 |
| 10/24/02 5:11 PM | 10.85 | 1.52 | 178 | 105,553 | 1,776 | 6.23 | 1352.70 | 296.47 | 200.00 | 491.58 | 491.82 | 431.62 |
| 10/24/02 5:12 PM | 10.85 | 1.52 | 178 | 105,332 | 2,176 | 6.37 | 1059.14 | 312.92 | 200.00 | 491.58 | 490.84 | 431.48 |
| 10/24/02 5:13 PM | 10.85 | 1.52 | 178 | 105,765 | 2,162 | 6.34 | 955.74 | 327.56 | 200.00 | 491.58 | 490.60 | 431.63 |
| 10/24/02 5:14 PM | 10.85 | 1.52 | 178 | 104,063 | 2,169 | 6.50 | 857.48 | 335.49 | 200.00 | 491.58 | 489.62 | 431.35 |
| 10/24/02 5:15 PM | 10.85 | 1.52 | 178 | 104,403 | 2,085 | 6.22 | 891.53 | 323.97 | 200.00 | 491.58 | 489.62 | 431.32 |
| 10/24/02 5:16 PM | 10.85 | 1.52 | 178 | 103,932 | 1,871 | 6.36 | 1007.86 | 325.51 | 200.00 | 491.58 | 489.62 | 431.38 |
| 10/24/02 5:17 PM | 10.85 | 1.52 | 178 | 103,985 | 1,831 | 6.13 | 913.87 | 327.74 | 200.00 | 491.58 | 489.62 | 431.66 |
| 10/24/02 5:18 PM | 10.85 | 1.52 | 178 | 100,909 | 2,143 | 6.18 | 928.97 | 327.79 | 200.00 | 491.58 | 489.62 | 431.66 |
| 10/24/02 5:19 PM | 10.85 | 1.52 | 178 | 100,845 | 2,191 | 6.04 | 1010.23 | 325.71 | 200.00 | 491.58 | 490.11 | 431.32 |
| 10/24/02 5:20 PM | 10.85 | 1.52 | 178 | 102,704 | 2,052 | 6.15 | 961.79 | 329.74 | 200.00 | 491.58 | 490.60 | 431.32 |
| 10/24/02 5:21 PM | 10.85 | 1.52 | 178 | 99,696 | 1,703 | 5.84 | 977.01 | 321.98 | 200.00 | 491.58 | 491.33 | 431.80 |
| 10/24/02 5:22 PM | 10.85 | 1.52 | 178 | 102,005 | 2,081 | 5.97 | 1077.15 | 318.70 | 200.00 | 491.58 | 492.31 | 431.85 |
| 10/24/02 5:23 PM | 10.85 | 1.52 | 178 | 102,778 | 2,063 | 6.07 | 1229.63 | 311.41 | 200.00 | 491.58 | 492.31 | 431.93 |
| 10/24/02 5:24 PM | 10.85 | 1.52 | 178 | 102,488 | 2,337 | 6.15 | 994.34 | 326.46 | 200.00 | 491.58 | 492.06 | 431.53 |
| 10/24/02 5:25 PM | 10.85 | 1.52 | 178 | 103,466 | 2,025 | 6.05 | 970.69 | 326.43 | 200.00 | 491.58 | 492.31 | 431.99 |
| 10/24/02 5:26 PM | 10.85 | 1.52 | 178 | 103,832 | 1,707 | 6.08 | 997.64 | 323.05 | 200.00 | 491.58 | 492.31 | 431.88 |
| 10/24/02 5:27 PM | 10.85 | 1.52 | 178 | 103,216 | 2,151 | 6.03 | 947.97 | 325.88 | 200.00 | 491.58 | 492.55 | 431.01 |
| 10/24/02 5:28 PM | 10.85 | 1.52 | 178 | 104,517 | 1,948 | 6.02 | 974.90 | 331.72 | 200.00 | 491.58 | 492.80 | 431.86 |
| 10/24/02 5:29 PM | 10.85 | 1.52 | 178 | 102,238 | 2,096 | 6.09 | 986.19 | 320.17 | 200.00 | 491.58 | 492.80 | 431.93 |
| 10/24/02 5:30 PM | 10.85 | 1.52 | 178 | 103,631 | 1,545 | 6.00 | 992.73 | 333.01 | 200.00 | 491.58 | 493.04 | 432.23 |
| 10/24/02 5:31 PM | 10.85 | 1.52 | 178 | 101,892 | 2,341 | 6.02 | 917.30 | 325.04 | 200.00 | 491.58 | 493.04 | 431.89 |
| 10/24/02 5:32 PM | 10.85 | 1.52 | 178 | 103,188 | 1,948 | 5.96 | 1017.92 | 314.98 | 200.00 | 491.58 | 493.28 | 431.26 |
| 10/24/02 5:33 PM | 10.85 | 1.52 | 178 | 101,874 | 1,860 | 6.02 | 1031.14 | 310.08 | 200.00 | 491.58 | 493.53 | 431.62 |
| 10/24/02 5:34 PM | 10.85 | 1.52 | 178 | 104,772 | 1,707 | 5.97 | 1077.09 | 309.81 | 200.00 | 491.58 | 493.77 | 431.64 |
| 10/24/02 5:35 PM | 10.85 | 1.52 | 178 | 103,621 | 2,099 | 6.14 | 1025.90 | 306.87 | 200.00 | 491.58 | 493.53 | 432.17 |
| 10/24/02 5:36 PM | 10.85 | 1.52 | 178 | 105,414 | 1,879 | 6.22 | 934.36 | 317.65 | 200.00 | 491.58 | 493.28 | 432.54 |
| 10/24/02 5:37 PM | 10.85 | 1.52 | 178 | 103,501 | 2,209 | 6.33 | 907.84 | 313.31 | 200.00 | 491.58 | 492.06 | 432.52 |
| 10/24/02 5:38 PM | 10.85 | 1.52 | 178 | 104,876 | 1,809 | 6.17 | 1019.50 | 303.55 | 200.00 | 491.58 | 491.33 | 432.23 |
| 10/24/02 5:39 PM | 10.85 | 1.52 | 178 | 103,507 | 1,915 | 6.28 | 1044.67 | 301.42 | 200.00 | 491.58 | 490.84 | 432.21 |
| 10/24/02 5:40 PM | 10.85 | 1.52 | 178 | 103,865 | 2,416 | 6.02 | 1094.41 | 302.93 | 200.00 | 491.58 | 490.84 | 432.53 |
| 10/24/02 5:41 PM | 10.85 | 1.52 | 178 | 105,427 | 1,505 | 6.48 | 1070.17 | 299.82 | 200.00 | 491.58 | 490.35 | 432.84 |
| 10/24/02 5:42 PM | 10.85 | 1.52 | 178 | 105,881 | 2,964 | 6.48 | 1070.82 | 299.76 | 200.00 | 491.58 | 490.35 | 432.90 |
| 10/24/02 5:43 PM | 10.85 | 1.52 | 178 | 105,459 | 2,209 | 6.48 | 1070.82 | 299.76 | 200.00 | 491.58 | 490.11 | 432.14 |
| 10/24/02 5:44 PM | 10.85 | 1.52 | 178 | 106,588 | 1,578 | 6.16 | 1168.52 | 285.32 | 200.00 | 491.58 | 489.13 | 432.77 |
| 10/24/02 5:45 PM | 10.85 | 1.52 | 178 | 105,044 | 2,264 | 6.28 | 1136.95 | 281.70 | 200.00 | 491.58 | 488.64 | 431.33 |
| 10/24/02 5:46 PM | 10.85 | 1.52 | 178 | 102,716 | 2,052 | 6.11 | 1034.59 | 296.25 | 200.00 | 491.58 | 489.13 | 431.32 |
| 10/24/02 5:47 PM | 10.85 | 1.52 | 178 | 104,043 | 1,772 | 6.21 | 921.00 | 305.14 | 200.00 | 491.58 | 489.87 | 431.00 |
| 10/24/02 5:48 PM | 10.85 | 1.52 | 178 | 103,822 | 2,176 | 6.05 | 854.84 | 312.84 | 200.00 | 491.58 | 490.84 | 431.62 |
| 10/24/02 5:49 PM | 10.84 | 1.52 | 178 | 103,789 | 2,257 | 6.01 | 817.36 | 317.57 | 200.00 | 491.58 | 491.58 | 431.98 |
| 10/24/02 5:50 PM | 10.84 | 1.52 | 178 | 102,321 | 1,707 | 5.81 | 934.14 | 304.42 | 200.00 | 491.58 | 492.55 | 431.09 |
| 10/24/02 5:51 PM | 10.84 | 1.52 | 178 | 103,603 | 2,187 | 5.75 | 1152.79 | 294.29 | 200.00 | 491.58 | 493.04 | 431.29 |
| 10/24/02 5:52 PM | 10.84 | 1.52 | 178 | 102,251 | 1,915 | 5.79 | 1273.17 | 287.77 | 200.00 | 491.58 | 493.77 | 431.62 |
| 10/24/02 5:53 PM | 10.84 | 1.52 | 178 | 103,762 | 2,817 | 5.80 | 1229.50 | 291.70 | 200.00 | 491.58 | 494.26 | 431.30 |
| 10/24/02 5:54 PM | 10.84 | 1.52 | 178 | 104,882 | 1,992 | 5.92 | 1304.58 | 282.91 | 200.00 | 491.58 | 494.02 | 432.13 |
| 10/24/02 5:55 PM | 10.84 | 1.52 | 178 | 104,462 | 2,312 | 6.05 | 1380.59 | 279.79 | 200.00 | 491.58 | 493.77 | 432.23 |
| 10/24/02 5:56 PM | 10.84 | 1.52 | 178 | 103,625 | 1,974 | 6.28 | 1268.60 | 278.61 | 200.00 | 491.58 | 492.80 | 431.67 |
| 10/24/02 5:57 PM | 10.84 | 1.52 | 178 | 106,158 | 1,783 | 6.20 | 1041.44 | 285.76 | 200.00 | 491.58 | 492.31 | 431.46 |
| 10/24/02 5:58 PM | 10.84 | 1.52 | 178 | 103,717 | 2,007 | 6.40 | 999.29 | 297.77 | 200.00 | 491.58 | 491.33 | 431.93 |
| 10/24/02 5:59 PM | 10.84 | 1.52 | 178 | 105,226 | 1,915 | 6.42 | 843.76 | 314.45 | 200.00 | 491.58 | 491.33 | 431.62 |
| 10/24/02 6:00 PM | 10.84 | 1.52 | 178 | 104,742 | 2,103 | 6.47 | 788.49 | 315.95 | 200.00 | 491.58 | 490.35 | 431.56 |
| 10/24/02 6:01 PM | 10.84 | 1.52 | 178 | 105,795 | 2,081 | 6.23 | 811.60 | 312.49 | 200.00 | 491.58 | 490.11 | 431.39 |

STR02589

D-29

11/22/02

SEA0369

AGCS2M001966

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 6:02 PM | 10.84 | 1.52 | 178 | 104,523 | 1,890 | 6.25 | 946.61 | 301.84 | 200.00 | 491.58 | 489.62 | 431.19 |
| 10/24/02 6:03 PM | 10.84 | 1.52 | 178 | 103,549 | 2,061 | 5.99 | 1040.65 | 298.46 | 200.00 | 491.58 | 489.62 | 431.33 |
| 10/24/02 6:04 PM | 10.75 | 1.52 | 178 | 103,345 | 2,217 | 6.14 | 1053.45 | 298.00 | 200.00 | 491.58 | 489.87 | 431.10 |
| 10/24/02 6:05 PM | 10.75 | 1.52 | 178 | 102,329 | 2,110 | 5.88 | 1093.02 | 301.22 | 200.00 | 491.58 | 490.60 | 431.11 |
| 10/24/02 6:06 PM | 10.75 | 1.52 | 178 | 102,748 | 1,754 | 6.15 | 1103.03 | 297.63 | 200.00 | 491.58 | 490.84 | 431.81 |
| 10/24/02 6:07 PM | 10.75 | 1.52 | 178 | 102,858 | 1,743 | 5.98 | 943.57 | 304.08 | 200.00 | 491.58 | 491.33 | 432.23 |
| 10/24/02 6:08 PM | 10.75 | 1.52 | 178 | 102,833 | 2,304 | 6.29 | 901.74 | 311.58 | 200.00 | 491.58 | 491.33 | 431.32 |
| 10/24/02 6:09 PM | 10.75 | 1.52 | 178 | 103,380 | 1,743 | 6.21 | 859.03 | 300.63 | 200.00 | 491.58 | 491.58 | 431.42 |
| 10/24/02 6:10 PM | 10.75 | 1.52 | 178 | 105,011 | 2,400 | 6.19 | 831.76 | 302.86 | 200.00 | 491.58 | 491.58 | 431.08 |
| 10/24/02 6:11 PM | 10.75 | 1.52 | 178 | 105,764 | 2,151 | 6.07 | 1055.21 | 286.04 | 200.00 | 491.58 | 492.06 | 431.56 |
| 10/24/02 6:12 PM | 10.75 | 1.52 | 178 | 104,534 | 2,092 | 6.18 | 986.60 | 299.14 | 200.00 | 491.58 | 492.31 | 431.35 |
| 10/24/02 6:13 PM | 10.75 | 1.52 | 178 | 101,268 | 1,871 | 5.90 | 996.54 | 285.16 | 200.00 | 491.58 | 493.04 | 431.47 |
| 10/24/02 6:14 PM | 10.75 | 1.52 | 178 | 102,933 | 1,860 | 5.99 | 1338.02 | 272.22 | 200.00 | 491.58 | 493.53 | 430.99 |
| 10/24/02 6:15 PM | 10.75 | 1.52 | 178 | 102,052 | 1,725 | 6.02 | 1206.32 | 273.96 | 200.00 | 491.58 | 494.02 | 431.02 |
| 10/24/02 6:16 PM | 10.75 | 1.52 | 178 | 103,542 | 1,851 | 6.05 | 1073.34 | 280.05 | 200.00 | 491.58 | 494.02 | 430.88 |
| 10/24/02 6:17 PM | 10.75 | 1.52 | 179 | 102,652 | 2,037 | 6.03 | 1168.76 | 283.08 | 200.00 | 491.58 | 494.02 | 431.17 |
| 10/24/02 6:18 PM | 10.75 | 1.52 | 178 | 103,118 | 2,151 | 6.09 | 1300.65 | 282.69 | 200.00 | 491.58 | 493.53 | 431.24 |
| 10/24/02 6:19 PM | 10.80 | 1.52 | 178 | 103,480 | 2,121 | 6.12 | 1173.47 | 261.49 | 200.00 | 491.58 | 493.28 | 431.32 |
| 10/24/02 6:20 PM | 10.80 | 1.52 | 178 | 104,339 | 1,985 | 6.05 | 1335.87 | 259.09 | 200.00 | 491.58 | 493.04 | 431.20 |
| 10/24/02 6:21 PM | 10.80 | 1.52 | 178 | 102,734 | 1,915 | 6.26 | 1232.07 | 265.67 | 200.00 | 491.58 | 492.55 | 431.32 |
| 10/24/02 6:22 PM | 10.80 | 1.52 | 178 | 106,341 | 1,849 | 6.36 | 973.72 | 279.38 | 200.00 | 491.58 | 492.06 | 431.50 |
| 10/24/02 6:23 PM | 10.80 | 1.52 | 178 | 107,245 | 1,887 | 6.54 | 930.54 | 274.09 | 200.00 | 491.58 | 490.84 | 431.46 |
| 10/24/02 6:24 PM | 10.80 | 1.52 | 178 | 107,058 | 2,025 | 6.35 | 889.26 | 277.06 | 200.00 | 491.58 | 490.84 | 431.63 |
| 10/24/02 6:25 PM | 10.80 | 1.52 | 178 | 105,253 | 1,978 | 6.39 | 972.43 | 272.32 | 200.00 | 491.58 | 489.87 | 431.32 |
| 10/24/02 6:26 PM | 10.80 | 1.52 | 178 | 105,208 | 2,326 | 6.18 | 1192.48 | 261.42 | 200.00 | 491.58 | 489.62 | 431.62 |
| 10/24/02 6:27 PM | 10.80 | 1.52 | 178 | 102,771 | 1,666 | 6.25 | 1168.02 | 267.17 | 200.00 | 491.58 | 489.38 | 431.02 |
| 10/24/02 6:28 PM | 10.80 | 1.52 | 176 | 105,163 | 2,796 | 6.03 | 1196.50 | 267.90 | 200.00 | 491.58 | 489.62 | 431.63 |
| 10/24/02 6:29 PM | 10.90 | 1.52 | 176 | 105,239 | 2,021 | 6.16 | 1153.75 | 268.51 | 200.00 | 491.58 | 489.87 | 431.62 |
| 10/24/02 6:30 PM | 10.90 | 1.52 | 176 | 104,028 | 1,707 | 6.02 | 1076.36 | 283.42 | 200.00 | 491.58 | 490.84 | 431.68 |
| 10/24/02 6:31 PM | 10.80 | 1.52 | 176 | 103,839 | 2,433 | 6.26 | 928.55 | 299.91 | 200.00 | 491.58 | 491.09 | 431.32 |
| 10/24/02 6:32 PM | 10.80 | 1.52 | 176 | 104,871 | 1,853 | 6.24 | 919.94 | 297.75 | 200.00 | 491.58 | 491.33 | 431.60 |
| 10/24/02 6:33 PM | 10.80 | 1.52 | 176 | 104,396 | 1,668 | 6.34 | 857.37 | 300.60 | 200.00 | 491.58 | 491.33 | 431.62 |
| 10/24/02 6:34 PM | 10.80 | 1.52 | 176 | 106,162 | 1,560 | 6.26 | 865.28 | 300.87 | 200.00 | 491.58 | 491.82 | 431.62 |
| 10/24/02 6:35 PM | 10.80 | 1.52 | 176 | 105,235 | 2,282 | 6.26 | 871.52 | 289.89 | 200.00 | 491.58 | 492.55 | 431.30 |
| 10/24/02 6:36 PM | 10.80 | 1.52 | 176 | 106,052 | 1,886 | 6.04 | 923.73 | 288.97 | 200.00 | 491.58 | 493.28 | 431.32 |
| 10/24/02 6:37 PM | 10.80 | 1.52 | 176 | 104,984 | 1,962 | 6.20 | 1042.29 | 290.15 | 200.00 | 491.58 | 493.53 | 431.02 |
| 10/24/02 6:38 PM | 10.80 | 1.52 | 176 | 105,891 | 2,389 | 6.27 | 1681.71 | 300.96 | 200.00 | 491.58 | 493.53 | 430.82 |
| 10/24/02 6:39 PM | 10.80 | 1.52 | 176 | 105,824 | 1,985 | 6.28 | 1046.11 | 293.20 | 200.00 | 491.58 | 493.53 | 431.29 |
| 10/24/02 6:40 PM | 10.80 | 1.52 | 176 | 106,507 | 1,578 | 6.24 | 963.34 | 287.92 | 200.00 | 491.58 | 493.53 | 431.30 |
| 10/24/02 6:41 PM | 10.80 | 1.51 | 176 | 107,965 | 1,871 | 6.29 | 917.84 | 291.77 | 200.00 | 491.58 | 492.80 | 432.23 |
| 10/24/02 6:42 PM | 10.80 | 1.51 | 176 | 106,283 | 2,788 | 6.29 | 918.19 | 291.82 | 200.00 | 491.58 | 492.06 | 431.94 |
| 10/24/02 6:43 PM | 10.80 | 1.51 | 176 | 105,679 | 1,959 | 6.29 | 918.19 | 291.82 | 200.00 | 491.58 | 491.09 | 431.57 |
| 10/24/02 6:44 PM | 10.80 | 1.51 | 176 | 104,557 | 2,217 | 6.22 | 1081.53 | 285.46 | 200.00 | 491.58 | 490.60 | 431.24 |
| 10/24/02 6:45 PM | 10.80 | 1.51 | 176 | 107,062 | 2,052 | 6.25 | 1180.86 | 281.37 | 200.00 | 491.58 | 490.11 | 431.62 |
| 10/24/02 6:46 PM | 10.80 | 1.51 | 176 | 105,830 | 1,974 | 6.47 | 1107.53 | 293.38 | 200.00 | 491.58 | 489.62 | 431.37 |
| 10/24/02 6:47 PM | 10.80 | 1.51 | 176 | 105,962 | 2,323 | 6.46 | 904.94 | 306.30 | 200.00 | 491.58 | 489.87 | 430.72 |
| 10/24/02 6:48 PM | 10.80 | 1.51 | 176 | 105,017 | 2,162 | 6.44 | 809.01 | 308.76 | 200.00 | 491.58 | 489.87 | 431.28 |
| 10/24/02 6:49 PM | 10.80 | 1.51 | 176 | 105,913 | 1,838 | 6.27 | 869.32 | 305.38 | 200.00 | 491.58 | 490.11 | 431.80 |
| 10/24/02 6:50 PM | 10.80 | 1.51 | 176 | 105,154 | 2,103 | 6.48 | 907.87 | 303.20 | 200.00 | 491.58 | 490.35 | 431.93 |
| 10/24/02 6:51 PM | 10.80 | 1.51 | 176 | 105,596 | 1,959 | 6.25 | 840.55 | 307.57 | 200.00 | 491.58 | 490.84 | 432.23 |
| 10/24/02 6:52 PM | 10.80 | 1.51 | 176 | 104,357 | 2,861 | 6.34 | 979.45 | 293.45 | 200.00 | 491.58 | 491.09 | 432.65 |
| 10/24/02 6:53 PM | 10.80 | 1.51 | 176 | 105,437 | 1,454 | 6.22 | 960.54 | 293.79 | 200.00 | 491.58 | 492.06 | 432.47 |
| 10/24/02 6:54 PM | 10.80 | 1.51 | 176 | 104,251 | 1,849 | 6.37 | 941.74 | 297.95 | 200.00 | 491.58 | 492.31 | 431.97 |
| 10/24/02 6:55 PM | 10.80 | 1.51 | 176 | 104,549 | 2,228 | 6.27 | 1024.75 | 293.95 | 200.00 | 491.58 | 492.06 | 431.62 |
| 10/24/02 6:56 PM | 10.80 | 1.51 | 176 | 105,721 | 1,501 | 6.35 | 981.09 | 293.60 | 200.00 | 491.58 | 492.06 | 431.32 |
| 10/24/02 6:57 PM | 10.80 | 1.51 | 176 | 104,376 | 1,355 | 6.27 | 1000.29 | 295.47 | 200.00 | 491.58 | 492.31 | 431.46 |
| 10/24/02 6:58 PM | 10.80 | 1.51 | 175 | 103,155 | 2,000 | 6.32 | 907.87 | 303.74 | 200.00 | 491.58 | 492.80 | 430.73 |
| 10/24/02 6:59 PM | 10.80 | 1.51 | 176 | 103,190 | 1,824 | 6.21 | 964.88 | 302.60 | 200.00 | 491.58 | 493.28 | 431.41 |
| 10/24/02 7:00 PM | 10.80 | 1.51 | 175 | 104,120 | 1,476 | 6.22 | 949.68 | 307.23 | 200.00 | 491.58 | 493.53 | 431.29 |
| 10/24/02 7:01 PM | 10.80 | 1.51 | 176 | 105,266 | 2,451 | 6.10 | 1038.54 | 297.06 | 200.00 | 491.58 | 494.26 | 431.64 |
| 10/24/02 7:02 PM | 10.80 | 1.51 | 176 | 104,786 | 2,206 | 6.22 | 1083.55 | 286.68 | 200.00 | 491.58 | 494.51 | 431.62 |
| 10/24/02 7:03 PM | 10.80 | 1.51 | 176 | 105,884 | 1,747 | 6.20 | 1123.83 | 287.29 | 200.00 | 491.58 | 494.26 | 431.66 |
| 10/24/02 7:04 PM | 10.80 | 1.51 | 176 | 108,136 | 1,930 | 6.46 | 1069.27 | 294.14 | 200.00 | 491.58 | 493.53 | 431.93 |
| 10/24/02 7:05 PM | 10.80 | 1.51 | 176 | 106,695 | 1,293 | 6.49 | 1028.81 | 286.25 | 200.00 | 491.58 | 492.55 | 430.71 |
| 10/24/02 7:06 PM | 10.80 | 1.51 | 176 | 107,549 | 2,239 | 6.49 | 929.55 | 292.19 | 200.00 | 491.58 | 491.82 | 431.23 |
| 10/24/02 7:07 PM | 10.80 | 1.51 | 176 | 106,861 | 2,162 | 6.34 | 914.47 | 296.62 | 200.00 | 491.58 | 491.58 | 431.51 |
| 10/24/02 7:08 PM | 10.80 | 1.51 | 176 | 107,217 | 2,143 | 6.51 | 1064.56 | 290.42 | 200.00 | 491.58 | 491.09 | 431.02 |
| 10/24/02 7:09 PM | 10.80 | 1.51 | 176 | 107,204 | 2,392 | 6.58 | 903.95 | 290.61 | 200.00 | 491.58 | 490.35 | 431.01 |
| 10/24/02 7:10 PM | 10.80 | 1.51 | 176 | 108,833 | 2,257 | 6.49 | 847.06 | 293.52 | 200.00 | 491.58 | 489.87 | 431.32 |
| 10/24/02 7:11 PM | 10.80 | 1.51 | 176 | 105,531 | 2,275 | 6.49 | 887.52 | 291.69 | 200.00 | 491.58 | 489.62 | 430.71 |
| 10/24/02 7:12 PM | 10.80 | 1.51 | 176 | 105,485 | 2,007 | 6.40 | 908.20 | 295.14 | 200.00 | 491.58 | 489.62 | 430.92 |
| 10/24/02 7:13 PM | 10.80 | 1.51 | 176 | 106,017 | 2,693 | 6.45 | 889.87 | 295.02 | 200.00 | 491.58 | 489.62 | 431.34 |
| 10/24/02 7:14 PM | 10.80 | 1.51 | 176 | 106,832 | 2,312 | 6.30 | 914.70 | 297.46 | 200.00 | 491.58 | 490.35 | 431.45 |
| Averages | 10.83 | 1.52 | 177.11 | 104,454 | 2,030 | 6.20 | 1,016.4 | 302.27 | 200.00 | 491.58 | 491.66 | 431.50 |
| Weighted Average | 45 minutes to 192 minutes | | 177.2 | | | | | | | | 491.68 | |

Ash Grove Cement
Seattle, WA

Run 10a Raw Mill Off

| [redacted] | Kiln Coal tons/hour 41C.WF1.Ft | Calciner Coal tons/hour 41C.WF2.Ft | Kiln feed rate tons/hour 412.PG3/4.Fc1 | One Minute Average Flow (DSCFM) 413.2K1.Ft10K | Tire feed Rate in pounds/hour 41F.BW1.Ft | One Minute Average O2 (%) 413.2K1.Al10K | One Minute Average CO (ppm) 413.2K1.Al20K | One Minute Average NOx (ppm) 413.2K1.Al30K | One Minute Average SO2 (ppm) 413.2K1.Al40K | Three Hour Rolling Ave. (%) PCNACT | Baghouse Inlet Temp Deg f 413.BF1.Tt1 | Stack Gas Temperature Deg f 413.2K1.Tt1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 8:37 PM | 10.75 | 1.51 | 172 | 108,191 | 1,967 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 490.60 | 431.30 |
| 10/24/02 8:38 PM | 10.75 | 1.51 | 172 | 107,602 | 2,007 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 489.62 | 431.55 |
| 10/24/02 8:39 PM | 10.75 | 1.51 | 172 | 106,632 | 1,780 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 489.62 | 431.50 |
| 10/24/02 8:40 PM | 10.75 | 1.51 | 172 | 106,614 | 1,707 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 488.89 | 431.34 |
| 10/24/02 8:41 PM | 10.75 | 1.51 | 172 | 105,066 | 1,831 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 486.89 | 431.32 |
| 10/24/02 8:42 PM | 10.75 | 1.51 | 172 | 105,818 | 2,326 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 489.13 | 431.26 |
| 10/24/02 8:43 PM | 10.75 | 1.51 | 172 | 104,928 | 1,808 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 489.87 | 431.62 |
| 10/24/02 8:44 PM | 10.75 | 1.51 | 172 | 105,257 | 2,099 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 490.84 | 431.93 |
| 10/24/02 8:45 PM | 10.75 | 1.51 | 172 | 106,711 | 2,070 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 491.82 | 432.06 |
| 10/24/02 8:46 PM | 10.75 | 1.51 | 172 | 105,954 | 2,007 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.31 | 432.24 |
| 10/24/02 8:47 PM | 10.75 | 1.51 | 172 | 102,920 | 1,967 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.31 | 432.62 |
| 10/24/02 8:48 PM | 10.75 | 1.51 | 172 | 102,732 | 2,021 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 493.53 | 432.54 |
| 10/24/02 8:49 PM | 10.75 | 1.51 | 172 | 104,708 | 2,315 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 493.53 | 432.23 |
| 10/24/02 8:50 PM | 10.75 | 1.51 | 172 | 109,569 | 2,103 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 493.53 | 432.53 |
| 10/24/02 8:51 PM | 10.75 | 1.51 | 172 | 109,473 | 1,901 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 493.28 | 432.56 |
| 10/24/02 8:52 PM | 10.75 | 1.51 | 172 | 106,506 | 1,890 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 493.28 | 431.93 |
| 10/24/02 8:53 PM | 10.75 | 1.51 | 172 | 105,856 | 2,065 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 493.28 | 431.93 |
| 10/24/02 8:54 PM | 10.75 | 1.72 | 172 | 106,702 | 2,239 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 493.28 | 432.22 |
| 10/24/02 8:55 PM | 10.75 | 1.72 | 172 | 107,061 | 2,206 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.80 | 431.95 |
| 10/24/02 8:56 PM | 10.75 | 1.72 | 172 | 107,406 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.80 | 432.54 |
| 10/24/02 8:57 PM | 10.75 | 1.72 | 172 | 106,257 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.55 | 432.12 |
| 10/24/02 8:58 PM | 10.75 | 1.72 | 172 | 105,958 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.55 | 432.23 |
| 10/24/02 8:59 PM | 10.75 | 1.72 | 172 | 105,785 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.06 | 431.94 |
| 10/24/02 9:00 PM | 10.75 | 1.72 | 172 | 107,570 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.06 | 432.21 |
| 10/24/02 9:01 PM | 10.75 | 1.77 | 172 | 105,655 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.06 | 431.62 |
| 10/24/02 9:02 PM | 10.75 | 1.69 | 172 | 106,919 | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.58 | 492.06 | 432.22 |
| Averages | 10.75 | 1.58 | 172 | 106,302 | 1,473 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.79 | 432.00 |

Ash Grove Cement
Seattle, WA

Run 10b Raw Mill Off



| [redacted] | Kiln Coal tons/hour 410.WF1.F01 | Calciner Coal tons/hour 410.WF2.F01 | Kiln feed rate tons/hour 412.PC04.FC01 | One Minute Average Flow (DSCFM) 413.2K1.FI10K | Tire feed Rate in pounds/hour 41F.SW1.F01 | One Minute Average O2 (%) 413.2K1.AI10K | One Minute Average CO (ppm) 413.2K1.AI20K | One Minute Average NOx (ppm) 413.2K1.AI30K | One Minute Average SO2 (ppm) 413.2K1.AI40K | Three Hour Rolling Ave. (%) PCMACT | Baghouse Inlet Temp Deg f 413.BF1.TI1 | Stack Gas Temperature Deg f 413.2K1.TI1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 9:28 PM | 10.75 | 1.52 | 174 | 106,106 | 1,721 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.82 | 431.25 |
| 10/24/02 9:29 PM | 10.75 | 1.52 | 174 | 104,945 | 2,477 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 492.31 | 431.67 |
| 10/24/02 9:30 PM | 10.75 | 1.52 | 174 | 105,929 | 1,897 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 492.31 | 432.23 |
| 10/24/02 9:31 PM | 10.75 | 1.51 | 174 | 107,217 | 1,761 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 492.31 | 432.45 |
| 10/24/02 9:32 PM | 10.75 | 1.51 | 174 | 111,157 | 2,052 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 492.06 | 432.12 |
| 10/24/02 9:33 PM | 10.75 | 1.51 | 174 | 107,259 | 2,132 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 492.06 | 432.54 |
| 10/24/02 9:34 PM | 10.75 | 1.51 | 174 | 106,938 | 1,957 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 492.31 | 432.04 |
| 10/24/02 9:35 PM | 10.75 | 1.51 | 174 | 107,922 | 2,400 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.82 | 431.93 |
| 10/24/02 9:36 PM | 10.75 | 1.51 | 174 | 108,515 | 2,055 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.33 | 431.53 |
| 10/24/02 9:37 PM | 10.75 | 1.51 | 174 | 104,606 | 2,052 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 490.84 | 431.05 |
| 10/24/02 9:38 PM | 10.75 | 1.51 | 174 | 105,133 | 1,926 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 490.60 | 431.07 |
| 10/24/02 9:39 PM | 10.75 | 1.51 | 174 | 104,274 | 1,996 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 490.84 | 430.69 |
| 10/24/02 9:40 PM | 10.75 | 1.51 | 174 | 106,773 | 1,890 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 490.84 | 431.00 |
| 10/24/02 9:41 PM | 10.75 | 1.51 | 174 | 106,064 | 1,501 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 490.84 | 431.43 |
| 10/24/02 9:42 PM | 10.75 | 1.51 | 174 | 108,343 | 2,209 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.33 | 431.29 |
| 10/24/02 9:43 PM | 10.75 | 1.51 | 174 | 106,385 | 2,429 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.09 | 430.71 |
| 10/24/02 9:44 PM | 10.75 | 1.51 | 174 | 107,003 | 1,483 | 0.00 | 0.00 | 0.00 | 0.00 | 491.58 | 491.09 | 430.90 |
| 10/24/02 9:45 PM | 10.75 | 1.51 | 174 | 105,160 | 1,831 | 6.08 | 805.56 | 330.17 | 194.07 | 491.58 | 490.84 | 430.98 |
| 10/24/02 9:46 PM | 10.75 | 1.52 | 174 | 105,714 | 2,021 | 6.36 | 816.80 | 348.14 | 200.00 | 491.58 | 491.33 | 431.15 |
| 10/24/02 9:47 PM | 10.75 | 1.52 | 174 | 103,653 | 1,871 | 6.44 | 765.30 | 352.22 | 200.00 | 491.58 | 491.09 | 431.12 |
| 10/24/02 9:48 PM | 10.75 | 1.52 | 174 | 104,607 | 2,003 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 491.33 | 431.00 |
| 10/24/02 9:49 PM | 10.75 | 1.52 | 174 | 106,114 | 2,506 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 491.09 | 431.62 |
| 10/24/02 9:50 PM | 10.75 | 1.52 | 174 | 106,969 | 1,447 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 491.33 | 431.55 |
| 10/24/02 9:51 PM | 10.75 | 1.52 | 174 | 107,677 | 1,871 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 490.84 | 431.91 |
| 10/24/02 9:52 PM | 10.75 | 1.52 | 174 | 107,928 | 1,959 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 491.09 | 432.23 |
| 10/24/02 9:53 PM | 10.75 | 1.52 | 174 | 108,315 | 1,743 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 490.84 | 431.90 |
| 10/24/02 9:54 PM | 10.75 | 1.52 | 174 | 106,850 | 2,733 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 490.60 | 431.62 |
| 10/24/02 9:55 PM | 10.75 | 1.52 | 174 | 107,869 | 1,919 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 490.11 | 431.30 |
| 10/24/02 9:56 PM | 10.75 | 1.52 | 176 | 104,737 | 1,725 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 489.62 | 431.36 |
| 10/24/02 9:57 PM | 10.75 | 1.52 | 176 | 104,082 | 1,901 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 489.38 | 430.19 |
| 10/24/02 9:58 PM | 10.75 | 1.52 | 176 | 107,048 | 2,003 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 489.13 | 430.70 |
| 10/24/02 9:59 PM | 10.75 | 1.52 | 176 | 105,689 | 2,553 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 489.38 | 429.90 |
| 10/24/02 10:00 PM | 10.75 | 1.52 | 176 | 105,459 | 2,121 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 490.11 | 429.99 |
| 10/24/02 10:01 PM | 10.75 | 1.52 | 176 | 104,741 | 1,860 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 491.09 | 429.79 |
| 10/24/02 10:02 PM | 10.75 | 1.52 | 176 | 105,373 | 2,228 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 491.58 | 430.33 |
| 10/24/02 10:03 PM | 10.75 | 1.52 | 176 | 105,127 | 2,568 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 492.55 | 430.59 |
| 10/24/02 10:04 PM | 10.75 | 1.52 | 176 | 102,821 | 2,070 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 493.04 | 430.10 |
| 10/24/02 10:05 PM | 10.75 | 1.52 | 176 | 105,359 | 2,228 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 494.02 | 430.71 |
| 10/24/02 10:06 PM | 10.75 | 1.52 | 176 | 105,020 | 1,879 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 494.26 | 431.29 |
| 10/24/02 10:07 PM | 10.75 | 1.52 | 176 | 107,153 | 2,180 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 493.77 | 431.52 |
| 10/24/02 10:08 PM | 10.75 | 1.52 | 176 | 107,427 | 2,304 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 492.80 | 430.69 |
| 10/24/02 10:09 PM | 10.75 | 1.52 | 176 | 107,413 | 1,685 | 6.44 | 764.96 | 352.26 | 200.00 | 491.33 | 491.82 | 430.92 |
| 10/24/02 10:10 PM | 10.75 | 1.52 | 176 | 106,940 | 1,553 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 490.84 | 431.30 |
| 10/24/02 10:11 PM | 10.75 | 1.52 | 176 | 107,567 | 2,025 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 490.84 | 430.82 |
| 10/24/02 10:12 PM | 10.75 | 1.52 | 176 | 106,250 | 2,025 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 490.11 | 430.41 |
| 10/24/02 10:13 PM | 10.75 | 1.52 | 176 | 106,905 | 1,772 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 490.11 | 430.49 |
| 10/24/02 10:14 PM | 10.75 | 1.52 | 176 | 105,936 | 2,187 | 6.44 | 764.96 | 352.26 | 200.00 | 491.58 | 489.62 | 430.47 |
| 10/24/02 10:15 PM | 10.75 | 1.52 | 176 | 105,057 | 2,132 | 6.27 | 842.47 | 341.25 | 200.00 | 491.58 | 489.38 | 430.26 |
| 10/24/02 10:16 PM | 10.75 | 1.51 | 176 | 103,918 | 2,003 | 6.35 | 945.09 | 327.40 | 200.00 | 491.33 | 489.38 | 430.40 |
| 10/24/02 10:17 PM | 10.75 | 1.51 | 176 | 105,387 | 1,919 | 6.13 | 946.67 | 314.71 | 200.00 | 491.33 | 490.11 | 431.01 |
| 10/24/02 10:18 PM | 10.75 | 1.51 | 176 | 103,009 | 1,659 | 6.29 | 878.82 | 334.82 | 200.00 | 491.33 | 490.11 | 430.70 |
| 10/24/02 10:19 PM | 10.75 | 1.51 | 176 | 104,495 | 2,323 | 6.18 | 759.20 | 349.82 | 200.00 | 491.33 | 490.60 | 430.72 |
| 10/24/02 10:20 PM | 10.75 | 1.51 | 176 | 105,698 | 2,070 | 6.36 | 850.71 | 335.33 | 200.00 | 491.33 | 491.33 | 430.41 |
| 10/24/02 10:21 PM | 10.75 | 1.51 | 176 | 104,494 | 1,494 | 6.21 | 859.66 | 333.53 | 200.00 | 491.33 | 491.33 | 430.71 |
| 10/24/02 10:22 PM | 10.75 | 1.51 | 176 | 107,174 | 2,143 | 6.35 | 817.58 | 339.29 | 200.00 | 491.33 | 491.58 | 430.74 |
| 10/24/02 10:23 PM | 10.75 | 1.51 | 176 | 104,836 | 2,103 | 6.17 | 972.96 | 322.70 | 200.00 | 491.33 | 491.82 | 430.71 |
| 10/24/02 10:24 PM | 10.75 | 1.51 | 176 | 106,503 | 2,370 | 6.47 | 1621.59 | 331.24 | 200.00 | 491.33 | 491.33 | 430.94 |
| 10/24/02 10:25 PM | 10.75 | 1.51 | 176 | 105,479 | 2,466 | 6.18 | 981.06 | 328.87 | 200.00 | 491.33 | 491.33 | 430.21 |
| 10/24/02 10:26 PM | 10.75 | 1.51 | 176 | 104,824 | 1,611 | 6.14 | 973.52 | 331.55 | 200.00 | 491.33 | 491.33 | 430.13 |
| 10/24/02 10:27 PM | 10.75 | 1.51 | 176 | 104,870 | 1,996 | 6.12 | 941.07 | 331.96 | 200.00 | 491.33 | 491.58 | 429.79 |
| 10/24/02 10:28 PM | 10.75 | 1.51 | 176 | 105,441 | 2,176 | 6.13 | 923.24 | 333.02 | 200.00 | 491.33 | 491.58 | 429.90 |
| 10/24/02 10:29 PM | 10.75 | 1.51 | 176 | 104,589 | 1,542 | 6.13 | 1001.29 | 322.32 | 200.00 | 491.33 | 491.33 | 429.97 |
| 10/24/02 10:30 PM | 10.75 | 1.51 | 176 | 106,727 | 1,754 | 6.08 | 1051.34 | 319.90 | 200.00 | 491.33 | 491.33 | 430.67 |
| 10/24/02 10:31 PM | 10.75 | 1.52 | 176 | 106,270 | 2,264 | 6.23 | 1015.95 | 311.89 | 200.00 | 491.33 | 491.09 | 431.02 |
| 10/24/02 10:32 PM | 10.75 | 1.52 | 176 | 105,118 | 2,392 | 6.13 | 986.96 | 316.08 | 200.00 | 491.33 | 490.60 | 430.34 |
| 10/24/02 10:33 PM | 10.75 | 1.52 | 176 | 104,404 | 2,158 | 6.19 | 940.24 | 330.28 | 200.00 | 491.33 | 490.11 | 429.91 |
| 10/24/02 10:34 PM | 10.75 | 1.52 | 176 | 106,387 | 2,158 | 5.97 | 1441.48 | 303.78 | 200.00 | 491.33 | 490.11 | 430.40 |
| 10/24/02 10:35 PM | 10.75 | 1.52 | 176 | 105,526 | 1,897 | 6.21 | 1101.61 | 311.12 | 200.00 | 491.33 | 489.87 | 429.95 |
| 10/24/02 10:36 PM | 10.75 | 1.52 | 176 | 106,286 | 1,648 | 6.05 | 1161.42 | 302.04 | 200.00 | 491.33 | 489.62 | 430.29 |
| 10/24/02 10:37 PM | 10.75 | 1.52 | 176 | 104,181 | 1,908 | 6.07 | 1128.79 | 304.72 | 200.00 | 491.33 | 489.13 | 429.69 |

STR02589

D-32

11/22/02

SEA0372

AGCS2M001969

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 10:38 PM | 10.75 | 1.52 | 176 | 105,176 | 2,228 | 5.93 | 947.44 | 328.48 | 200.00 | 491.33 | 489.87 | 430.40 |
| 10/24/02 10:39 PM | 10.75 | 1.52 | 176 | 104,435 | 2,575 | 6.06 | 960.39 | 323.04 | 200.00 | 491.33 | 490.35 | 430.37 |
| 10/24/02 10:40 PM | 10.75 | 1.52 | 175 | 104,640 | 1,985 | 5.78 | 1101.98 | 322.83 | 200.00 | 491.33 | 491.33 | 430.40 |
| 10/24/02 10:41 PM | 10.75 | 1.52 | 175 | 104,555 | 2,239 | 5.93 | 1113.97 | 311.23 | 200.00 | 491.33 | 491.82 | 430.40 |
| 10/24/02 10:42 PM | 10.75 | 1.52 | 175 | 105,654 | 2,480 | 5.73 | 1233.71 | 309.41 | 200.00 | 491.33 | 492.55 | 431.27 |
| 10/24/02 10:43 PM | 10.75 | 1.52 | 176 | 106,116 | 1,659 | 6.02 | 1096.67 | 309.28 | 200.00 | 491.33 | 492.80 | 430.41 |
| 10/24/02 10:44 PM | 10.75 | 1.52 | 175 | 104,562 | 1,842 | 6.03 | 900.75 | 330.01 | 200.00 | 491.33 | 492.80 | 430.83 |
| 10/24/02 10:45 PM | 10.75 | 1.52 | 176 | 105,049 | 2,092 | 6.11 | 926.62 | 322.87 | 200.00 | 491.33 | 492.80 | 430.41 |
| 10/24/02 10:46 PM | 10.75 | 1.51 | 176 | 104,879 | 1,967 | 6.03 | 898.66 | 323.32 | 200.00 | 491.33 | 492.80 | 430.17 |
| 10/24/02 10:47 PM | 10.75 | 1.51 | 175 | 105,469 | 2,191 | 6.02 | 961.33 | 323.74 | 200.00 | 491.33 | 492.80 | 430.06 |
| 10/24/02 10:48 PM | 10.75 | 1.51 | 176 | 103,826 | 2,085 | 5.96 | 902.83 | 343.64 | 200.00 | 491.58 | 493.04 | 429.80 |
| 10/24/02 10:49 PM | 10.75 | 1.51 | 176 | 103,420 | 1,696 | 6.02 | 873.85 | 345.08 | 200.00 | 491.58 | 493.04 | 429.93 |
| 10/24/02 10:50 PM | 10.75 | 1.51 | 176 | 100,988 | 2,140 | 5.94 | 888.19 | 346.13 | 200.00 | 491.58 | 493.28 | 429.88 |
| 10/24/02 10:51 PM | 10.75 | 1.51 | 176 | 102,701 | 2,403 | 5.98 | 850.75 | 353.42 | 200.00 | 491.58 | 493.77 | 429.97 |
| 10/24/02 10:52 PM | 10.75 | 1.51 | 175 | 102,643 | 1,956 | 6.00 | 910.76 | 342.48 | 200.00 | 491.58 | 493.53 | 430.40 |
| 10/24/02 10:53 PM | 10.75 | 1.51 | 176 | 104,715 | 1,992 | 6.08 | 989.67 | 329.67 | 200.00 | 491.58 | 493.04 | 430.97 |
| 10/24/02 10:54 PM | 10.75 | 1.51 | 176 | 105,498 | 2,044 | 6.27 | 935.27 | 331.36 | 200.00 | 491.58 | 492.31 | 430.98 |
| 10/24/02 10:55 PM | 10.75 | 1.51 | 176 | 105,173 | 2,114 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 491.33 | 431.03 |
| 10/24/02 10:56 PM | 10.75 | 1.51 | 176 | 107,025 | 2,228 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 490.84 | 430.71 |
| 10/24/02 10:57 PM | 10.75 | 1.51 | 176 | 106,174 | 1,901 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 490.60 | 431.01 |
| 10/24/02 10:58 PM | 10.75 | 1.51 | 176 | 103,268 | 2,021 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 490.11 | 430.69 |
| 10/24/02 10:59 PM | 10.75 | 1.51 | 176 | 105,268 | 2,085 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 489.87 | 429.77 |
| 10/24/02 11:00 PM | 10.75 | 1.51 | 176 | 104,144 | 2,162 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 489.38 | 430.39 |
| 10/24/02 11:01 PM | 10.75 | 1.52 | 176 | 103,441 | 2,158 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 489.38 | 429.61 |
| 10/24/02 11:02 PM | 10.75 | 1.52 | 176 | 102,754 | 1,842 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 489.62 | 429.78 |
| 10/24/02 11:03 PM | 10.75 | 1.52 | 176 | 103,248 | 2,392 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 490.35 | 429.80 |
| 10/24/02 11:04 PM | 10.75 | 1.52 | 176 | 103,605 | 2,872 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 490.60 | 430.15 |
| 10/24/02 11:05 PM | 10.75 | 1.52 | 176 | 103,273 | 2,288 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 491.33 | 430.80 |
| 10/24/02 11:06 PM | 10.75 | 1.52 | 175 | 103,756 | 2,151 | 6.27 | 933.46 | 331.50 | 200.00 | 491.58 | 491.33 | 430.40 |
| 10/24/02 11:07 PM | 10.75 | 1.52 | 175 | 105,853 | 2,063 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 491.33 | 430.67 |
| 10/24/02 11:08 PM | 10.75 | 1.52 | 175 | 104,278 | 1,417 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 491.09 | 430.37 |
| 10/24/02 11:09 PM | 10.75 | 1.52 | 176 | 104,528 | 1,967 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 491.09 | 430.38 |
| 10/24/02 11:10 PM | 10.75 | 1.52 | 176 | 103,781 | 2,158 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 491.33 | 430.59 |
| 10/24/02 11:11 PM | 10.75 | 1.52 | 176 | 102,143 | 2,257 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 491.58 | 429.81 |
| 10/24/02 11:12 PM | 10.75 | 1.52 | 176 | 100,804 | 2,293 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 492.06 | 429.74 |
| 10/24/02 11:13 PM | 10.75 | 1.52 | 176 | 101,232 | 2,044 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 492.55 | 429.34 |
| 10/24/02 11:14 PM | 10.75 | 1.52 | 176 | 102,234 | 1,842 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 492.80 | 430.04 |
| 10/24/02 11:15 PM | 10.75 | 1.52 | 176 | 102,919 | 2,014 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 493.04 | 430.45 |
| 10/24/02 11:16 PM | 10.75 | 1.52 | 176 | 103,534 | 1,820 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 493.28 | 430.54 |
| 10/24/02 11:17 PM | 10.75 | 1.52 | 176 | 104,669 | 1,945 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 493.04 | 430.51 |
| 10/24/02 11:18 PM | 10.75 | 1.52 | 176 | 104,145 | 1,824 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 492.80 | 430.70 |
| 10/24/02 11:19 PM | 10.75 | 1.52 | 176 | 102,184 | 1,948 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 492.06 | 430.71 |
| 10/24/02 11:20 PM | 10.75 | 1.52 | 176 | 103,550 | 1,915 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 491.82 | 430.93 |
| 10/24/02 11:21 PM | 10.75 | 1.52 | 176 | 103,813 | 1,897 | 6.27 | 933.46 | 331.50 | 200.00 | 491.33 | 490.84 | 431.26 |
| 10/24/02 11:22 PM | 10.75 | 1.52 | 176 | 104,475 | 2,268 | 6.17 | 887.01 | 328.13 | 200.00 | 491.33 | 490.35 | 430.72 |
| 10/24/02 11:23 PM | 10.75 | 1.52 | 176 | 104,023 | 2,330 | 6.24 | 804.28 | 323.29 | 200.00 | 491.33 | 489.87 | 431.32 |
| 10/24/02 11:24 PM | 10.80 | 1.52 | 176 | 103,927 | 1,930 | 6.16 | 807.52 | 322.47 | 200.00 | 491.33 | 489.87 | 431.32 |
| 10/24/02 11:25 PM | 10.80 | 1.52 | 176 | 102,604 | 2,055 | 6.26 | 819.22 | 323.26 | 200.00 | 491.33 | 489.62 | 430.93 |
| 10/24/02 11:26 PM | 10.80 | 1.52 | 174 | 103,164 | 1,494 | 6.12 | 785.93 | 334.88 | 200.00 | 491.33 | 489.87 | 431.01 |
| 10/24/02 11:27 PM | 10.80 | 1.52 | 174 | 103,437 | 1,399 | 6.10 | 785.29 | 334.58 | 200.00 | 491.33 | 490.11 | 431.12 |
| 10/24/02 11:28 PM | 10.80 | 1.52 | 174 | 104,588 | 2,660 | 5.95 | 785.52 | 337.81 | 200.00 | 491.33 | 490.84 | 431.93 |
| 10/24/02 11:29 PM | 10.80 | 1.52 | 174 | 103,728 | 1,892 | 6.18 | 777.84 | 333.29 | 200.00 | 491.33 | 490.84 | 431.90 |
| 10/24/02 11:30 PM | 10.80 | 1.52 | 174 | 101,704 | 1,377 | 5.84 | 962.64 | 321.02 | 200.00 | 491.33 | 491.58 | 431.05 |
| 10/24/02 11:31 PM | 10.80 | 1.52 | 174 | 102,685 | 2,180 | 5.96 | 1062.70 | 312.20 | 200.00 | 491.33 | 492.31 | 430.40 |
| 10/24/02 11:32 PM | 10.80 | 1.52 | 174 | 105,840 | 1,747 | 5.86 | 940.76 | 323.57 | 200.00 | 491.33 | 492.80 | 431.29 |
| 10/24/02 11:33 PM | 10.80 | 1.52 | 174 | 103,223 | 2,220 | 5.85 | 1122.24 | 308.11 | 200.00 | 491.33 | 493.53 | 431.32 |
| 10/24/02 11:34 PM | 10.80 | 1.52 | 174 | 103,400 | 1,901 | 5.85 | 998.47 | 319.82 | 200.00 | 491.33 | 494.26 | 431.25 |
| 10/24/02 11:35 PM | 10.80 | 1.52 | 174 | 105,016 | 1,559 | 6.11 | 843.85 | 319.77 | 200.00 | 491.33 | 494.51 | 431.54 |
| 10/24/02 11:36 PM | 10.80 | 1.52 | 174 | 105,524 | 2,206 | 6.04 | 865.63 | 316.20 | 200.00 | 491.33 | 494.75 | 431.59 |
| 10/24/02 11:37 PM | 10.80 | 1.52 | 174 | 105,011 | 2,121 | 6.19 | 986.12 | 306.20 | 200.00 | 491.33 | 494.51 | 432.14 |
| 10/24/02 11:38 PM | 10.80 | 1.52 | 174 | 104,685 | 1,998 | 6.15 | 950.37 | 307.62 | 200.00 | 491.33 | 493.77 | 432.23 |
| 10/24/02 11:39 PM | 10.80 | 1.52 | 174 | 105,914 | 2,282 | 6.23 | 935.27 | 298.84 | 200.00 | 491.58 | 493.53 | 431.92 |
| 10/24/02 11:40 PM | 10.80 | 1.52 | 174 | 105,337 | 2,055 | 6.19 | 963.53 | 295.69 | 200.00 | 491.58 | 493.28 | 431.72 |
| 10/24/02 11:41 PM | 10.80 | 1.52 | 174 | 105,692 | 1,956 | 6.38 | 781.03 | 310.23 | 200.00 | 491.58 | 493.04 | 431.97 |
| 10/24/02 11:42 PM | 10.80 | 1.52 | 174 | 106,695 | 1,897 | 6.25 | 991.55 | 297.87 | 200.00 | 491.58 | 492.31 | 431.83 |
| 10/24/02 11:43 PM | 10.80 | 1.52 | 174 | 107,714 | 1,948 | 6.37 | 913.40 | 299.82 | 200.00 | 491.58 | 491.58 | 431.77 |
| 10/24/02 11:44 PM | 10.80 | 1.52 | 174 | 107,112 | 2,447 | 6.50 | 758.64 | 303.75 | 200.00 | 491.58 | 490.84 | 431.32 |
| 10/24/02 11:45 PM | 10.80 | 1.52 | 174 | 106,566 | 2,099 | 6.37 | 823.89 | 300.58 | 200.00 | 491.58 | 490.35 | 431.40 |
| 10/24/02 11:46 PM | 10.80 | 1.51 | 174 | 105,901 | 1,996 | 6.47 | 768.93 | 307.46 | 200.00 | 491.58 | 489.62 | 431.46 |
| 10/24/02 11:47 PM | 10.80 | 1.51 | 174 | 105,394 | 2,085 | 6.39 | 754.10 | 311.56 | 200.00 | 491.58 | 489.62 | 431.02 |
| 10/24/02 11:48 PM | 10.80 | 1.51 | 174 | 105,579 | 1,901 | 6.44 | 715.21 | 313.28 | 200.00 | 491.58 | 489.62 | 431.56 |
| 10/24/02 11:49 PM | 10.80 | 1.51 | 174 | 106,330 | 2,151 | 6.25 | 799.92 | 314.75 | 200.00 | 491.58 | 490.11 | 431.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/24/02 11:50 PM | 10.80 | 1.51 | 174 | 104,854 | 1,897 | 6.27 | 791.39 | 310.52 | 200.00 | 491.33 | 490.64 | 431.27 |
| 10/24/02 11:51 PM | 10.80 | 1.51 | 174 | 105,644 | 1,794 | 6.23 | 744.61 | 321.56 | 200.00 | 491.33 | 491.62 | 431.67 |
| 10/24/02 11:52 PM | 10.80 | 1.51 | 174 | 104,135 | 2,304 | 6.27 | 851.29 | 321.06 | 200.00 | 491.33 | 492.31 | 431.32 |
| 10/24/02 11:53 PM | 10.80 | 1.61 | 174 | 105,738 | 1,732 | 6.18 | 881.07 | 320.07 | 200.00 | 491.33 | 492.31 | 431.96 |
| 10/24/02 11:54 PM | 10.80 | 1.66 | 174 | 106,878 | 2,160 | 6.32 | 836.49 | 329.97 | 200.00 | 491.33 | 492.06 | 431.86 |
| 10/24/02 11:55 PM | 10.80 | 1.77 | 174 | 106,315 | 0 | 6.15 | 866.13 | 326.26 | 200.00 | 491.33 | 492.06 | 431.35 |
| 10/24/02 11:56 PM | 10.80 | 1.63 | 174 | 104,090 | 0 | 6.35 | 1014.32 | 325.48 | 200.00 | 491.33 | 492.31 | 430.88 |
| 10/24/02 11:57 PM | 10.80 | 1.56 | 174 | 102,566 | 0 | 6.47 | 827.93 | 344.30 | 200.00 | 491.33 | 492.80 | 431.09 |
| 10/24/02 11:58 PM | 10.80 | 1.51 | 174 | 104,752 | 0 | 6.55 | 740.84 | 357.95 | 200.00 | 491.33 | 493.04 | 431.32 |
| 10/24/02 11:59 PM | 10.93 | 1.51 | 174 | 103,416 | 0 | 6.48 | 649.13 | 380.56 | 200.00 | 491.33 | 493.53 | 430.88 |
| 10/25/02 12:00 AM | 10.93 | 1.51 | 174 | 104,550 | 0 | 6.43 | 684.72 | 376.51 | 200.00 | 491.33 | 493.53 | 430.97 |
| 10/25/02 12:01 AM | 11.08 | 1.51 | 174 | 105,670 | 0 | 6.32 | 770.28 | 371.12 | 200.00 | 491.33 | 493.53 | 431.12 |
| 10/25/02 12:02 AM | 11.08 | 1.51 | 174 | 105,068 | 0 | 6.18 | 1662.15 | 324.31 | 200.00 | 491.33 | 493.04 | 431.32 |
| 10/25/02 12:03 AM | 11.08 | 1.51 | 174 | 105,241 | 0 | 6.09 | 1331.52 | 340.85 | 200.00 | 491.33 | 492.31 | 431.02 |
| 10/25/02 12:04 AM | 11.08 | 1.51 | 174 | 107,012 | 0 | 6.02 | 1486.06 | 365.39 | 200.00 | 491.33 | 491.33 | 431.32 |
| 10/25/02 12:05 AM | 11.08 | 1.51 | 174 | 105,840 | 0 | 5.93 | 1224.42 | 394.06 | 200.00 | 491.58 | 490.84 | 431.62 |
| 10/25/02 12:06 AM | 11.25 | 1.51 | 174 | 105,377 | 0 | 6.22 | 796.39 | 434.11 | 200.00 | 491.33 | 490.84 | 431.38 |
| 10/25/02 12:07 AM | 11.25 | 1.56 | 174 | 105,839 | 0 | 6.66 | 590.05 | 468.78 | 200.00 | 491.33 | 490.11 | 430.89 |
| 10/25/02 12:08 AM | 11.25 | 1.56 | 174 | 105,851 | 0 | 7.41 | 667.48 | 421.30 | 200.00 | 491.33 | 490.11 | 431.03 |
| 10/25/02 12:09 AM | 11.25 | 1.56 | 174 | 104,131 | 0 | 7.09 | 707.62 | 418.87 | 200.00 | 491.33 | 489.87 | 430.70 |
| 10/25/02 12:10 AM | 11.44 | 1.56 | 174 | 104,169 | 0 | 6.86 | 733.06 | 421.95 | 200.00 | 491.33 | 490.11 | 430.54 |
| 10/25/02 12:11 AM | 11.44 | 1.58 | 174 | 103,804 | 0 | 6.69 | 584.82 | 472.94 | 200.00 | 491.33 | 490.11 | 430.66 |
| 10/25/02 12:12 AM | 11.44 | 1.62 | 174 | 104,603 | 0 | 7.02 | 614.80 | 452.24 | 200.00 | 491.33 | 490.84 | 430.58 |
| 10/25/02 12:13 AM | 11.44 | 1.62 | 174 | 103,746 | 0 | 7.26 | 681.65 | 428.02 | 200.00 | 491.33 | 491.33 | 430.69 |
| Averages | 10.80 | 1.52 | 175.0 | 105,103 | 1,797 | 5.63 | 801.61 | 303.74 | 179.48 | 491.43 | 491.46 | 430.89 |
| Weighted Average | 26 minutes to 166 minutes | | 174.6 | | | | | | | | 491.5 | |