**Attachment A - Stanton Station Fuel Quality Data**

| | % Sulfur | | | Heat Value (Btu/lb) | | |
|---|---|---|---|---|---|---|
| Year | Min | Avg | Max | Min | Avg | Max |
| 2000 | 0.45% | 0.64% | 1.17% | 6,125 | 6,764 | 7,659 |
| 1999 | 0.45% | 0.68% | 0.95% | 6,211 | 6,703 | 7,200 |
| 1998 | 0.49% | 0.75% | 1.34% | 6,167 | 6,708 | 7,570 |
| 1997 | 0.27% | 0.69% | 1.08% | 5,940 | 6,670 | 7,150 |
| 1996 | 0.46% | 0.66% | 1.04% | 7,630 | 6,850 | 6,300 |
| 1995 | 0.49% | 0.62% | 1.09% | 6,206 | 6,784 | 7,176 |
| 1994 | 0.47% | 0.65% | 1.14% | 6,184 | 6,775 | 7,171 |
| 1993 | 0.45% | 0.63% | 0.89% | 5,789 | 6,715 | 7,116 |
| 1992 | 0.47% | 0.68% | 1.10% | 6,091 | 6,713 | 7,792 |
| 1991 | 0.51% | 0.85% | 1.11% | 6,452 | 6,808 | 7,123 |
| 1990 | 0.66% | 0.94% | 1.46% | 6,264 | 6,877 | 7,267 |
| 1989 | 0.42% | 0.86% | 1.58% | 6,261 | 6,831 | 7,358 |
| 1988 | 0.40% | 0.65% | 1.11% | 6,000 | 6,697 | 7,195 |
| 1987 | 0.12% | 0.65% | 1.09% | 5,700 | 6,697 | 7,174 |
| 1986 | 0.25% | 0.61% | 1.39% | 5,671 | 6,723 | 7,176 |
| 1985 | 0.60% | 0.75% | 0.99% | 6,580 | 6,820 | 7,052 |
| 1984 | 0.60% | 0.69% | 0.85% | 6,668 | 6,829 | 7,113 |
| 1983 | 0.53% | 0.66% | 1.04% | 6,369 | 6,749 | 6,944 |
| 1982 | 0.52% | 0.65% | 0.78% | 6,600 | 6,869 | 7,071 |
| 1981 | 0.48% | 0.59% | 0.68% | 6,510 | 6,883 | 7,190 |
| 1980 | 0.32% | 0.64% | 0.87% | 6,800 | 7,013 | 7,250 |
| 1979 | 0.43% | 0.63% | 0.77% | 6,450 | 6,958 | 7,261 |
| 1978 | 0.39% | 0.61% | 0.90% | 6,690 | 6,975 | 7,410 |
| 1977 | 0.48% | 0.64% | 0.86% | 6,600 | 6,814 | 7,160 |
| 1976 | 0.48% | 0.65% | 0.94% | 6,200 | 6,965 | 7,170 |
| 1975 | 0.59% | 0.74% | 0.94% | 6,450 | 6,923 | 7,190 |
| 1974 | 0.52% | 0.63% | 0.81% | 6,300 | 6,871 | 7,200 |
| Avg | 0.46% | 0.68% | 1.04% | 6,330 | 6,814 | 7,201 |
| Max | 0.66% | 0.94% | 1.58% | 7,630 | 7,013 | 7,792 |
| Min | 0.12% | 0.59% | 0.68% | 5,671 | 6,670 | 6,300 |

**Attachment B - Stanton Station Unit 1 CEM Data and Annual Sulfur Multiplier Derivation**

| Year | Lignite (tons) | Fuel Sulfur Content | | | CEM SO2 (tons) | SO2 (lb/ton) | Mavg (lb/ton) |
|---|---|---|---|---|---|---|---|
| | | Min | Avg | Max | | | |
| 2000 | 692,290 | 0.45% | 0.64% | 1.17% | 7,658 | 22.1 | 34.57 |
| 1999 | 721,800 | 0.45% | 0.68% | 0.95% | 8,521 | 23.6 | 34.72 |
| 1998 | 602,200 | 0.49% | 0.75% | 1.34% | 7,519 | 25.0 | 33.30 |
| 1997 | 669,766 | 0.27% | 0.69% | 1.08% | 7,437 | 22.2 | 32.19 |
| 1996 | 653,910 | 0.46% | 0.66% | 1.04% | 6,254 | 19.1 | 28.98 |
| 1995 | 599,240 | 0.49% | 0.62% | 1.09% | 6,515 | 21.7 | 35.07 |
| Avg | 656,534 | 0.44% | 0.67% | 1.11% | 7,317 | 22.3 | 33.14 |
| Max | 721,800 | 0.49% | 0.75% | 1.34% | 8,521 | 25.0 | 35.07 |
| Min | 599,240 | 0.27% | 0.62% | 0.95% | 6,254 | 19.1 | 28.98 |

*Mavg is the annual sulfur multiplier derived using the annual average sulfur content in the fuel.*

**Attachment C - Stanton Station Unit 1 CEM Data and Short-Term Sulfur Multiplier Derivation ***

| Date | Time | 1-hr HI (MMBtu/hr) | 1-hr SO2 (lb/hr) | 3-hr SO2 (lb/hr) | 24-hr SO2 (lb/hr) | Est. Firing** (ton/hr) | 1-hr M (lb/ton) |
|---|---|---|---|---|---|---|---|
| 12/22/99 | 0:00 | 1258.58 | 3220.7920 | 3363.8258 | — | 92.39 | 41.01 |
| 12/22/99 | 1:00 | 1330.23 | 3490.0376 | 3467.7258 | — | 97.65 | 42.05 |
| 12/22/99 | 2:00 | 1558.72 | 4085.1484 | 3598.6593 | — | 114.43 | 42.00 |
| 12/22/99 | 3:00 | 1483.92 | 4089.4304 | 3888.2055 | — | 108.94 | 44.18 |
| 12/22/99 | 4:00 | 1294.44 | 3507.0000 | 3893.8598 | — | 95.03 | 43.42 |
| 12/22/99 | 5:00 | 1575.62 | 4171.9736 | 3922.8013 | 3669.9543 | 115.67 | 42.43 |
| 12/22/99 | 6:00 | 1575.44 | 4206.4541 | 3961.8092 | 3695.5545 | 115.65 | 42.79 |
| 12/22/99 | 7:00 | 1563.49 | 4223.4268 | 4200.6182 | 3720.6393 | 114.78 | 43.29 |
| 12/22/99 | 8:00 | 1550.24 | 4356.4755 | 4262.1188 | 3742.1805 | 113.80 | 45.04 |
| 12/22/99 | 9:00 | 1519.56 | 4046.1536 | 4208.6853 | 3759.6933 | 111.55 | 42.67 |
| 12/22/99 | 10:00 | 1570.15 | 4144.2314 | 4182.2868 | 3780.5232 | 115.27 | 42.30 |
| 12/22/99 | 11:00 | 1409.90 | 3757.7483 | 3982.7111 | 3789.5972 | 103.50 | 42.71 |
| 12/22/99 | 12:00 | 1086.46 | 2820.1252 | 3574.0350 | 3744.6406 | 79.76 | 41.60 |
| 12/22/99 | 13:00 | 1061.27 | 2769.0222 | 3115.6319 | 3713.1107 | 77.91 | 41.81 |
| 12/22/99 | 14:00 | 1086.97 | 2886.8545 | 2825.3340 | 3682.5267 | 79.80 | 42.56 |
| 12/22/99 | 15:00 | 1106.72 | 3041.7493 | 2899.2087 | 3660.7951 | 81.25 | 44.05 |
| 12/22/99 | 16:00 | 1314.06 | 3533.4597 | 3154.0212 | 3659.0854 | 96.47 | 43.09 |
| 12/22/99 | 17:00 | 1486.30 | 3766.3379 | 3447.1823 | 3671.0211 | 109.11 | 40.61 |
| 12/22/99 | 18:00 | 1482.71 | 3853.7769 | 3717.8582 | 3665.8064 | 108.85 | 41.65 |
| 12/22/99 | 19:00 | 1490.31 | 3858.6877 | 3826.2675 | 3659.5299 | 109.40 | 41.49 |
| 12/22/99 | 20:00 | 1480.50 | 3723.8889 | 3812.1178 | 3660.4444 | 108.68 | 40.31 |
| 12/22/99 | 21:00 | 1356.71 | 3338.2896 | 3640.2887 | 3656.7395 | 99.60 | 39.43 |
| 12/22/99 | 22:00 | 1257.47 | 2979.6748 | 3347.2844 | 3648.4619 | 92.31 | 37.97 |
| 12/22/99 | 23:00 | 1294.74 | 3178.6633 | 3165.5426 | 3627.0584 | 95.05 | 39.34 |
| | Avg | 1383.10 | 3827.0584 | 3644.0866 | 3695.1243 | 101.53 | 41.99 |
| | Max | 1575.62 | 4356.4755 | 4262.1188 | 3789.5972 | 115.67 | 45.04 |

* This analysis only considers a small sampling of available SO2 data for Stanton Station Unit 1. To the extent that an estimated emissions approach is used for assessing baseline SO2 concentration, Great River Energy reserves the right to evaluate additional data and revise the sulfur multiplier accordingly.

** Calculated based on a daily average sulfur content of 0.85% and a higher heating value of 6811 Btu/lb.