**Deseret Generation & Transmission Co-operative**
**Emission Data -- Bonanza Unit**
**Proposed Date of Physical/Operational Change (April/May 2016)**

**BASELINE DATA:**

| Month | Unit Hours of Operation (hr) | 24-Month Annual Hours of Operation (hpy) | CEMS Monthly Boiler Heat Input (MMBtu) | CEMS 24-Month Annaul Heat Input mmBtu's (MMBtu/yr) | Megawatt Monthly (Gross) (MW) | Monthly Net Capacity Factor % (%) | 24-Month Annaul Monthly Net Capacity Factor % (%/yr) | Coal Burned Tons (tons) | 24-Month Annaul Coal Burned Tons (typ) | Fuel Oil Burned Gallons (gal) | 24-Month Annaul Fuel Oil Burned Gallons (gal) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Oct-10 | 744.0 | | 2,879,654 | | 296,783 | 83.69% | | 153,542 | | 10,146 | |
| Nov-10 | 721.0 | | 3,120,367 | | 319,147 | 91.64% | | 162,747 | | 4,920 | |
| Dec-10 | 744.0 | | 3,177,158 | | 326,969 | 90.89% | | 170,427 | | 6,718 | |
| Jan-11 | 738.6 | | 3,126,737 | | 322,948 | 89.66% | | 167,135 | | 13,788 | |
| Feb-11 | 672.0 | | 2,666,910 | | 270,966 | 83.11% | | 138,739 | | 5,562 | |
| Mar-11 | 743.0 | | 3,201,571 | | 329,397 | 91.65% | | 165,643 | | 5,989 | |
| Apr-11 | 720.0 | | 2,925,907 | | 304,052 | 87.29% | | 155,525 | | 9,167 | |
| May-11 | 602.1 | | 2,275,637 | | 234,285 | 64.96% | | 118,057 | | 34,057 | |
| Jun-11 | 720.0 | | 2,768,241 | | 278,199 | 79.57% | | 139,559 | | 13,829 | |
| Jul-11 | 718.5 | | 2,625,228 | | 282,439 | 78.18% | | 146,195 | | 28,388 | |
| Aug-11 | 744.0 | | 2,924,707 | | 305,000 | 84.54% | | 159,701 | | 8,625 | |
| Sep-11 | 676.9 | | 2,677,073 | | 267,437 | 76.65% | | 140,391 | | 34,794 | |
| Oct-11 | 744.0 | | 2,854,922 | | 295,200 | 82.05% | | 155,375 | | 6,870 | |
| Nov-11 | 695.0 | | 2,865,461 | | 294,439 | 84.73% | | 153,540 | | 25,903 | |
| Dec-11 | 744.0 | | 3,018,683 | | 310,949 | 86.49% | | 161,687 | | 4,120 | |
| Jan-12 | 707.2 | | 2,859,945 | | 287,736 | 79.96% | | 149,640 | | 28,349 | |
| Feb-12 | 675.0 | | 2,870,973 | | 290,709 | 86.72% | | 149,061 | | 22,846 | |
| Mar-12 | 743.0 | | 2,948,858 | | 299,410 | 83.34% | | 152,095 | | 5,295 | |
| Apr-12 | 720.0 | | 2,846,619 | | 291,303 | 83.80% | | 149,069 | | 5,315 | |
| May-12 | 94.7 | | 277,185 | | 26,638 | 7.24% | | 13,896 | | 34,980 | |
| Jun-12 | 693.7 | | 2,830,875 | | 272,388 | 77.88% | | 143,746 | | 23,472 | |
| Jul-12 | 744.0 | | 3,031,808 | | 294,621 | 81.47% | | 152,754 | | 7,329 | |
| Aug-12 | 722.2 | | 2,987,807 | | 301,777 | 83.23% | | 154,475 | | 21,934 | |
| Sep-12 | 650.3 | 8,238.6 | 2,707,577 | 33,234,952 | 273,148 | 77.93% | 79.86% | 138,838 | 1,745,919 | 21,529 | 191,963 |
| Oct-12 | 744.0 | 8,238.6 | 2,998,412 | 33,294,331 | 308,753 | 85.44% | 79.93% | 157,606 | 1,747,951 | 6,253 | 190,016 |
| Nov-12 | 721.0 | 8,238.6 | 3,098,046 | 33,283,170 | 320,811 | 91.87% | 79.94% | 161,210 | 1,747,182 | 3,152 | 189,132 |
| Dec-12 | 716.1 | 8,224.6 | 2,843,025 | 33,116,104 | 291,490 | 85.38% | 79.71% | 156,336 | 1,740,137 | 15,519 | 193,533 |
| Jan-13 | 744.0 | 8,227.3 | 3,060,232 | 33,082,851 | 316,230 | 87.65% | 79.63% | 160,851 | 1,736,995 | 83,764 | 228,521 |
| Feb-13 | 652.3 | 8,217.4 | 2,656,830 | 33,077,811 | 282,634 | 86.59% | 79.78% | 142,695 | 1,738,973 | 17,451 | 234,465 |
| Mar-13 | 743.0 | 8,217.4 | 3,066,122 | 33,010,087 | 312,997 | 86.40% | 79.56% | 158,058 | 1,735,180 | 5,909 | 234,425 |
| Apr-13 | 720.0 | 8,217.4 | 2,640,865 | 32,867,566 | 268,724 | 76.25% | 79.10% | 136,476 | 1,725,656 | 9,486 | 234,585 |
| May-13 | 707.3 | 8,270.1 | 3,323,780 | 33,391,637 | 328,158 | 90.62% | 80.17% | 164,758 | 1,749,006 | 21,415 | 228,264 |
| Jun-13 | 715.4 | 8,267.7 | 3,502,011 | 33,758,522 | 330,026 | 94.09% | 80.77% | 169,568 | 1,764,011 | 12,624 | 227,661 |
| Jul-13 | 734.9 | 8,275.9 | 3,427,714 | 34,159,765 | 316,441 | 87.06% | 81.14% | 160,800 | 1,771,313 | 14,683 | 220,809 |
| Aug-13 | 666.1 | 8,237.0 | 3,130,485 | 34,262,654 | 293,428 | 80.89% | 80.99% | 152,599 | 1,767,762 | 32,947 | 232,970 |
| Sep-13 | 720.0 | 8,258.6 | 3,327,553 | 34,587,894 | 326,515 | 93.15% | 81.68% | 171,011 | 1,783,072 | 6,992 | 219,069 |
| Oct-13 | 744.0 | 8,258.6 | 3,644,400 | 34,982,633 | 327,013 | 90.32% | 82.02% | 173,459 | 1,792,114 | 17,232 | 224,250 |
| Nov-13 | 644.4 | 8,233.2 | 3,190,825 | 35,145,315 | 291,448 | 83.45% | 81.97% | 152,867 | 1,791,778 | 22,102 | 222,349 |
| Dec-13 | 744.0 | 8,233.2 | 3,557,212 | 35,414,580 | 340,427 | 94.46% | 82.30% | 182,387 | 1,802,128 | 542 | 220,560 |
| Jan-14 | 744.0 | 8,251.6 | 3,534,498 | 35,751,856 | 339,372 | 94.18% | 82.89% | 181,082 | 1,817,849 | 3,354 | 208,063 |
| Feb-14 | 672.0 | 8,250.1 | 3,153,603 | 35,893,171 | 307,339 | 94.20% | 83.20% | 163,646 | 1,825,141 | 809 | 197,044 |
| Mar-14 | 743.0 | 8,250.1 | 3,598,358 | 36,217,921 | 342,064 | 94.65% | 83.67% | 176,389 | 1,837,288 | 7,572 | 198,183 |
| Apr-14 | 720.0 | 8,250.1 | 2,951,973 | 36,270,598 | 280,547 | 80.17% | 83.52% | 145,901 | 1,835,704 | 9,297 | 200,174 |
| May-14 | 572.3 | 8,489.0 | 2,443,296 | 37,353,654 | 234,858 | 64.70% | 85.92% | 123,035 | 1,890,274 | 30,262 | 197,815 |
| Jun-14 | 720.0 | 8,502.1 | 3,117,599 | 37,497,016 | 287,494 | 81.60% | 86.07% | 151,511 | 1,894,156 | 8,647 | 190,402 |
| Jul-14 | 744.0 | 8,502.1 | 3,655,365 | 37,808,794 | 321,671 | 88.53% | 86.37% | 172,285 | 1,903,922 | 5,937 | 189,706 |
| Aug-14 | 744.0 | 8,513.0 | 3,375,775 | 38,002,778 | 314,720 | 86.55% | 86.51% | 164,165 | 1,908,767 | 5,524 | 181,501 |
| Sep-14 | 720.0 | 8,547.8 | 3,338,684 | 38,318,332 | 326,271 | 92.93% | 87.13% | 172,955 | 1,925,825 | 3,738 | 172,606 |
| Oct-14 | 744.0 | 8,547.8 | 3,491,417 | 38,564,834 | 345,934 | 95.52% | 87.55% | 180,991 | 1,937,518 | 3,490 | 171,224 |
| Nov-14 | 621.1 | 8,497.9 | 2,698,875 | 38,365,249 | 270,881 | 77.45% | 86.95% | 135,022 | 1,924,424 | 42,900 | 191,098 |
| Dec-14 | 744.0 | 8,511.8 | 3,280,807 | 38,584,140 | 328,091 | 90.63% | 87.17% | 171,598 | 1,932,055 | 2,905 | 184,791 |
| Jan-15 | 739.5 | 8,509.6 | 3,302,967 | 38,705,507 | 340,391 | 94.02% | 87.43% | 177,159 | 1,940,209 | 9,783 | 147,801 |
| Feb-15 | 672.0 | 8,519.5 | 2,951,986 | 38,853,085 | 307,397 | 93.98% | 87.74% | 160,772 | 1,949,247 | 4,840 | 141,495 |
| Mar-15 | 743.0 | 8,519.5 | 3,091,965 | 38,866,007 | 316,040 | 87.09% | 87.77% | 162,851 | 1,951,644 | 6,877 | 141,979 |
| Apr-15 | 720.0 | 8,519.5 | 3,140,059 | 39,115,604 | 315,240 | 89.91% | 88.34% | 162,955 | 1,964,883 | 3,473 | 138,973 |
| May-15 | 478.6 | 8,405.1 | 1,947,688 | 38,427,558 | 192,029 | 52.98% | 86.77% | 101,542 | 1,933,275 | 25,672 | 141,101 |
| Jun-15 | 720.0 | 8,407.4 | 3,191,722 | 38,272,413 | 323,076 | 92.25% | 86.70% | 165,923 | 1,931,453 | 2,310 | 135,944 |
| Jul-15 | 744.0 | 8,412.0 | 3,210,238 | 38,163,675 | 322,748 | 88.84% | 86.77% | 176,700 | 1,939,403 | 2,704 | 129,955 |
| Aug-15 | 744.0 | 8,450.9 | 3,292,881 | 38,244,873 | 325,479 | 89.68% | 87.14% | 179,581 | 1,952,894 | 3,336 | 115,149 |
| Sep-15 | 720.0 | 8,450.9 | 3,036,940 | 38,099,567 | 305,444 | 86.93% | 86.88% | 166,552 | 1,950,664 | 6,147 | 114,727 |
| **Max:** | | **8,547.8** | **3,655,365** | **39,115,604** | **345,934** | **95.52%** | **88.34%** | **182,387** | **1,964,883** | **83,764** | **234,585** |

**NOX**

| Month | NOX Monthly (lb/mmBtu | NOX Rolling 12-Month lb/mmBtu | NOX Rolling 24-Month lb/mmBtu | NOx Monthly (tons) | NOx Rolling 24-Month (tpy) | Minimum Net NOx tpy Increase to determine significance PSD R 52.21(b) (tpy) | Baseline NOx Emissions (tpy) |
|---|---|---|---|---|---|---|---|
| Oct-10 | 0.36 | | | 524.3 | | | |
| Nov-10 | 0.40 | | | 621.6 | | | |
| Dec-10 | 0.39 | | | 619.7 | | | |
| Jan-11 | 0.38 | | | 593.0 | | | |
| Feb-11 | 0.37 | | | 495.1 | | | |
| Mar-11 | 0.41 | | | 661.9 | | | |
| Apr-11 | 0.38 | | | 551.6 | | | |
| May-11 | 0.35 | | | 399.6 | | | |
| Jun-11 | 0.37 | | | 510.4 | | | |
| Jul-11 | 0.38 | | | 498.5 | | | |
| Aug-11 | 0.40 | | | 584.8 | | | |
| Sep-11 | 0.40 | 0.38 | | 530.8 | | | |
| Oct-11 | 0.39 | 0.39 | | 552.8 | | | |
| Nov-11 | 0.41 | 0.39 | | 583.4 | | | |
| Dec-11 | 0.41 | 0.39 | | 617.0 | | | |
| Jan-12 | 0.41 | 0.39 | | 579.8 | | | |
| Feb-12 | 0.42 | 0.39 | | 600.9 | | | |
| Mar-12 | 0.40 | 0.39 | | 592.7 | | | |
| Apr-12 | 0.38 | 0.39 | | 543.3 | | | |
| May-12 | 0.38 | 0.40 | | 52.5 | | | |
| Jun-12 | 0.43 | 0.40 | | 603.0 | | | |
| Jul-12 | 0.41 | 0.40 | | 625.9 | | | |
| Aug-12 | 0.43 | 0.41 | | 642.2 | | | |
| Sep-12 | 0.45 | 0.41 | 0.40 | 611.9 | 6,598.4 | 40.0 | 6,638.4 |
| Oct-12 | 0.43 | 0.42 | 0.40 | 650.6 | 6,661.5 | 40.0 | 6,701.5 |
| Nov-12 | 0.46 | 0.42 | 0.40 | 709.4 | 6,705.4 | 40.0 | 6,745.4 |
| Dec-12 | 0.45 | 0.42 | 0.41 | 638.3 | 6,714.7 | 40.0 | 6,754.7 |
| Jan-13 | 0.43 | 0.43 | 0.41 | 665.4 | 6,750.9 | 40.0 | 6,790.9 |
| Feb-13 | 0.45 | 0.43 | 0.41 | 602.1 | 6,804.4 | 40.0 | 6,844.4 |
| Mar-13 | 0.44 | 0.43 | 0.41 | 678.8 | 6,812.9 | 40.0 | 6,852.9 |
| Apr-13 | 0.38 | 0.43 | 0.41 | 498.5 | 6,786.3 | 40.0 | 6,826.3 |
| May-13 | 0.48 | 0.44 | 0.42 | 802.9 | 6,988.0 | 40.0 | 7,028.0 |
| Jun-13 | 0.44 | 0.44 | 0.42 | 765.7 | 7,115.6 | 40.0 | 7,155.6 |
| Jul-13 | 0.38 | 0.44 | 0.42 | 655.0 | 7,193.9 | 40.0 | 7,233.9 |
| Aug-13 | 0.37 | 0.43 | 0.42 | 581.6 | 7,192.3 | 40.0 | 7,232.3 |
| Sep-13 | 0.38 | 0.43 | 0.42 | 632.5 | 7,243.1 | 40.0 | 7,283.1 |
| Oct-13 | 0.38 | 0.42 | 0.42 | 691.8 | 7,312.6 | 40.0 | 7,352.6 |
| Nov-13 | 0.38 | 0.41 | 0.42 | 603.2 | 7,322.5 | 40.0 | 7,362.5 |
| Dec-13 | 0.39 | 0.41 | 0.42 | 693.8 | 7,360.9 | 40.0 | 7,400.9 |
| Jan-14 | 0.39 | 0.40 | 0.41 | 689.8 | 7,415.9 | 40.0 | 7,455.9 |
| Feb-14 | 0.37 | 0.40 | 0.41 | 578.9 | 7,404.9 | 40.0 | 7,444.9 |
| Mar-14 | 0.39 | 0.39 | 0.41 | 708.3 | 7,462.7 | 40.0 | 7,502.7 |
| Apr-14 | 0.37 | 0.39 | 0.41 | 538.9 | 7,460.5 | 40.0 | 7,500.5 |
| May-14 | 0.34 | 0.38 | 0.41 | 416.8 | 7,642.7 | 40.0 | 7,682.7 |
| Jun-14 | 0.33 | 0.37 | 0.41 | 520.8 | 7,601.6 | 40.0 | 7,641.6 |
| Jul-14 | 0.35 | 0.37 | 0.40 | 631.7 | 7,604.5 | 40.0 | 7,644.5 |
| Aug-14 | 0.34 | 0.37 | 0.40 | 576.9 | 7,571.8 | 40.0 | 7,611.8 |
| Sep-14 | 0.37 | 0.37 | 0.40 | 618.2 | 7,575.0 | 40.0 | 7,615.0 |
| Oct-14 | 0.38 | 0.37 | 0.39 | 672.0 | 7,585.7 | 40.0 | 7,625.7 |
| Nov-14 | 0.35 | 0.37 | 0.39 | 476.6 | 7,469.3 | 40.0 | 7,509.3 |
| Dec-14 | 0.37 | 0.36 | 0.39 | 601.0 | 7,450.6 | 40.0 | 7,490.6 |
| Jan-15 | 0.39 | 0.36 | 0.38 | 642.6 | 7,439.2 | 40.0 | 7,479.2 |
| Feb-15 | 0.40 | 0.37 | 0.38 | 586.6 | 7,431.5 | 40.0 | 7,471.5 |
| Mar-15 | 0.36 | 0.36 | 0.38 | 551.6 | 7,367.9 | 40.0 | 7,407.9 |
| Apr-15 | 0.38 | 0.36 | 0.38 | 589.3 | 7,413.3 | 40.0 | 7,453.3 |
| May-15 | 0.36 | 0.36 | 0.37 | 346.9 | 7,185.3 | 40.0 | 7,225.3 |
| Jun-15 | 0.43 | 0.37 | 0.37 | 692.0 | 7,148.4 | 40.0 | 7,188.4 |
| Jul-15 | 0.40 | 0.38 | 0.37 | 644.4 | 7,143.1 | 40.0 | 7,183.1 |
| Aug-15 | 0.37 | 0.38 | 0.37 | 617.4 | 7,161.0 | 40.0 | 7,201.0 |
| Sep-15 | 0.36 | 0.38 | 0.37 | 545.3 | 7,117.4 | 40.0 | 7,157.4 |
| **Max:** | **0.483** | **0.439** | **0.422** | **802.9** | **7,642.7** | | **7,682.7** |

**NOTES:**

1. The NOx data was derived using the Part 75 CEMS data.