

|      |             | PM                            |      |       |       |       |
|------|-------------|-------------------------------|------|-------|-------|-------|
| AIRS | Facility ID | Name                          | 2006 | 2007  | 2008  | avg   |
| 001  | 8004        | Coal P301-106                 | 2.09 | 2.15  | 2.15  | 2.13  |
| 004  |             | Ash P301a-d, P302a-d, P303a-b |      |       |       |       |
| 006  | 401         | Unit 1-3 Cooling Tower        | 8.91 | 10.62 | 10.62 | 10.05 |
| 008  | 402         | Unit 4 Cooling Tower          | 17.5 | 23.7  | 0.34  | 20.5  |
|      |             |                               | 9.8  | 9.8   | 9.8   | 9.8   |

|      |             | SO2 - tons    |        |        |        | NOx - tons |      |      |        | PM - tons |      |      |      | PM10 - tons |      |      |       |      |
|------|-------------|---------------|--------|--------|--------|------------|------|------|--------|-----------|------|------|------|-------------|------|------|-------|------|
| AIRS | Facility ID | Name          | 2006   | 2007   | 2008   | avg        | 2006 | 2007 | 2008   | avg       | 2006 | 2007 | 2008 | avg         | 2006 | 2007 | 2008  | avg  |
| 001  | 8004        | Unit 4 Boiler | 1509.4 | 1230.4 | 1265.7 | 1335.2     | 1716 | 1598 | 1711.4 | 1675.1    | 57.1 | 54   | 55   | 55.4        | 41.6 | 39.4 | 40.24 | 40.4 |

|      |             | Sulfur in Coal |                 |        |        | Ash in Coal |                   |       |       | Moisture Content |                       |       |       | Heat Content Btu/lb |        |       |       | Heat Content btu/lcf |      |      |      | Heat Content Btu/kg |       |       |       |       |
|------|-------------|----------------|-----------------|--------|--------|-------------|-------------------|-------|-------|------------------|-----------------------|-------|-------|---------------------|--------|-------|-------|----------------------|------|------|------|---------------------|-------|-------|-------|-------|
| AIRS | Facility ID | Name           | 2006            | 2007   | 2008   | avg         | 2006              | 2007  | 2008  | avg              | 2006                  | 2007  | 2008  | avg                 | 2006   | 2007  | 2008  | avg                  | 2006 | 2007 | 2008 | avg                 | 2006  | 2007  | 2008  | avg   |
| 001  | 8004        | Unit 4 Boiler  | 0.9             | 0.9    | 0.7    | 0.83        | 19.75             | 19.75 | 20.34 | 19.95            |                       |       |       |                     | 10721  | 10433 | 10480 | 10645                |      |      |      |                     | 90500 | 90500 | 90500 | 90500 |
|      |             |                | Ton coal burned |        |        |             | NG Burned (MMBtu) |       |       |                  | Propane Burned (MGal) |       |       |                     | #HV/01 |       |       |                      |      |      |      |                     |       |       |       |       |
| AIRS | Facility ID | Name           | 2006            | 2007   | 2008   | avg         | 2006              | 2007  | 2008  | avg              | 2006                  | 2007  | 2008  | avg                 | 2006   | 2007  | 2008  | avg                  | 2006 | 2007 | 2008 | avg                 | 2006  | 2007  | 2008  | avg   |
| 001  | 8004        | Unit 4 Boiler  | 408906          | 397660 | 403060 |             |                   |       |       |                  | 229.8                 | 317.6 | 271.4 |                     |        |       |       |                      |      |      |      |                     |       |       |       |       |
|      |             |                | ave:            |        |        |             | 403209            |       |       |                  |                       |       |       |                     |        |       |       |                      |      |      |      |                     |       |       |       |       |

|      |             | MMBTUs - Coal |         |         |         | MMBTUs - NG |         |         |         | MMBTUs - Oil |       |       |      |     |
|------|-------------|---------------|---------|---------|---------|-------------|---------|---------|---------|--------------|-------|-------|------|-----|
| AIRS | Facility ID | Name          | 2006    | 2007    | 2008    | avg         | 2006    | 2007    | 2008    | avg          | 2006  | 2007  | 2008 | avg |
| 001  | 8004        | Unit 4 Boiler | 8767762 | 8292724 | 8446138 | 0.00000     | 0.00000 | 0.00000 | 0.00000 | 20797        | 28743 | 24562 |      |     |

|      |             | Operating Hours |      |      |      | Capacity Factor |      |      |      |     |
|------|-------------|-----------------|------|------|------|-----------------|------|------|------|-----|
| AIRS | Facility ID | Name            | 2006 | 2007 | 2008 | avg             | 2006 | 2007 | 2008 | avg |
| 001  | 8004        | Unit 4 Boiler   | 8179 | 7731 | 7874 | 7914            | 93.4 | 88.3 | 89.0 |     |

|      |             | MMBtu/yr - from CAMD |         |         |         | MMBtu/yr - from total APEN |         |         |         |           |
|------|-------------|----------------------|---------|---------|---------|----------------------------|---------|---------|---------|-----------|
| AIRS | Facility ID | Name                 | 2006    | 2007    | 2008    | average                    | 2006    | 2007    | 2008    | average   |
| 001  | 8004        | Unit 4 Boiler        | 9275770 | 8638028 | 8621841 | 8845213.0                  | 8788550 | 8326316 | 8472699 | 8529191.7 |

|      |             | SO2 - lb/MMBtu |      |      |      | NOx - lb/MMBtu |      |      |      | PM - lb/MMBtu |       |       |       | PM10 - lb/MMBtu |       |       |       |       |
|------|-------------|----------------|------|------|------|----------------|------|------|------|---------------|-------|-------|-------|-----------------|-------|-------|-------|-------|
| AIRS | Facility ID | Name           | 2006 | 2007 | 2008 | avg            | 2006 | 2007 | 2008 | avg           | 2006  | 2007  | 2008  | avg             | 2006  | 2007  | 2008  | avg   |
| 001  | 8004        | Unit 4 Boiler  | 0.34 | 0.30 | 0.30 | 0.3135         | 0.39 | 0.39 | 0.41 | 0.3939        | 0.013 | 0.013 | 0.013 | 0.013           | 0.009 | 0.009 | 0.009 | 0.009 |

Uncontrolled SO2 EF (based on the underfeed stoker EF from AP-42, which is recommended for CFBs when no sorbent is injected)

|      |             | SO2 - lb/MMBtu |                       |      |      |      |
|------|-------------|----------------|-----------------------|------|------|------|
| AIRS | Facility ID | Name           | 2006                  | 2007 | 2008 | avg  |
| 001  | 8004        | Unit 4 Boiler  | 1.30                  | 1.34 | 1.04 | 1.22 |
|      |             |                | per ton of coal basis |      |      |      |
|      |             |                | 27.9                  | 27.9 | 21.7 | 25.8 |

AP42 NOx EF:

|      |             | AP42 EF (lb/ton)* | AP42 EF (lb/MMBtu)* |      |
|------|-------------|-------------------|---------------------|------|
| AIRS | Facility ID | Name              |                     |      |
| 001  | 8004        | Unit 4 Boiler     | 5.00                | 0.24 |

\*uses 2006 - 2008 average coal heat content

Note controlled vs uncontrolled NOx is not useful since we don't know how often they run SNCR

Uncontrolled PM EF:

|      |             | 2006 - 2008 Average Ash (lb/ton)* | AP42 EF (lb/ton)*      | AP42 EF (lb/MMBtu)* |      |
|------|-------------|-----------------------------------|------------------------|---------------------|------|
| AIRS | Facility ID | Name                              |                        |                     |      |
| 001  | 8004        | Unit 4 Boiler                     | 19.95                  | 17.00               | 0.81 |
|      |             |                                   | 2002 Stack Test Result |                     |      |
|      |             |                                   | 0.014                  | 98.3%               |      |

Uncontrolled PM10 EF:

|      |             | 2006 - 2008 Average Ash (lb/ton)* | AP42 EF (lb/ton)* | AP42 EF (lb/MMBtu)* |      |
|------|-------------|-----------------------------------|-------------------|---------------------|------|
| AIRS | Facility ID | Name                              |                   |                     |      |
| 001  | 8004        | Unit 4 Boiler                     | 19.95             | 12.40               | 0.59 |

\*uses 2006 - 2008 averages of sulfur content and coal heat content

Control Efficiencies (average, 2006 - 2008)

|             |               | SO2    | NOx | PM     | PM10   |
|-------------|---------------|--------|-----|--------|--------|
| Facility ID | Name          |        |     |        |        |
| 8004        | Unit 4 Boiler | 0.7440 | NA  | 0.9838 | 0.9839 |



Table with columns for ID, Name, and various numerical values. The table is organized into sections with headers like '0.0000' through '2.0000'. Each row contains a unique identifier and associated data points.





**Nucla Unit 4: Cost Evaluation for SO2 Control Systems**

**Estimated Uncontrolled SO2 Emissions: Average of 06-08 Baseline**

|                        |                 |       |
|------------------------|-----------------|-------|
| Sulfur content of coal | 0.83%           | AP-42 |
| Uncontrolled EF        | 25.83 lb/ton    |       |
| Uncontrolled EF        | 1.22 lb/MMBtu   |       |
| Coal Burned            | 403,209 ton     |       |
| Coal Burned            | 8,845,213 MMBtu |       |
| Uncontrolled Emissions | 5207 tpy        |       |

**Actual SO2 Emissions: Average of 06-08 Baseline**

|                  |                 |
|------------------|-----------------|
| Actual EF        | 0.2760 lb/MMBtu |
| % Reduction      | 77.4%           |
| Actual Emissions | 1335.2 tpy      |
| SO2 Removed      | 3872 tpy        |

**Cost Estimation: Improved Limestone Injection (85% SO2 Removal)**

|                             |                |                                                                      |
|-----------------------------|----------------|----------------------------------------------------------------------|
| Ca/S (70%)                  | 1.5            | From DOE Study                                                       |
| Ca/S (95%)                  | 4              | From DOE Study                                                       |
| Ca/S (75%) - baseline case  | 2              | Assumed to be linear from DOE study results                          |
| Ca/S (85%) - goal           | 3              | Assumed to be linear from DOE study results                          |
| Ca/S Increase               | 1              | Estimated increase in Ca/S ratio to increase removal from 75% to 85% |
| Coal Sulfur Content         | 0.83%          | average during baseline period                                       |
| Coal Burned                 | 403209 tons    | average during baseline period                                       |
| Mass of S in coal burned    | 3346.6 tons    |                                                                      |
| Mol Wt - S                  | 32 lb/lb-mol   |                                                                      |
| Mol Wt - CaCO3              | 100 lb/lb-mol  |                                                                      |
| Add'l limestone             | 10,458 tpy     |                                                                      |
| Limestone Cost              | 80 \$/ton      | Basis: 2006 (see note 1)                                             |
| Adj Limestone Cost          | 87 \$/ton      | Adjusted to 2006 (see note 2)                                        |
| Approximate Capital Cost    | \$13,500,000.0 | From TriTech Report - TriState Exhibit 10                            |
| Annual Limestone Cost (O&M) | \$ 914,290     |                                                                      |
| Capital Recovery Costs      | \$ 1,274,304   | From EPA Control Cost Manual, assume 7%, 20 years                    |

**Notes**

- 1: Source: Spiritwood BACT Analysis
- 2: Cost adjusted using CPI

**Spray Dry Absorber (used similar-sized Colorado EGU Analyses)**

|                           |             |                                          |
|---------------------------|-------------|------------------------------------------|
| Annualized Cost           | \$7,604,627 | Basis: Similar-sized Colorado EGUs       |
| Uncontrolled SO2          | 5207 tpy    | Based on 75% reduction within CFB Boiler |
| Post-Combustion Emissions | 677 tpy     |                                          |
| Post-SDA Emissions        | 336 tpy     |                                          |
| SO2 removed by SDA        | 341 tpy     |                                          |

Note 1: Based on CPI

**SCALING/INTERPOLATION**

|                  | MW  | Dry FGD Annualized Cost |
|------------------|-----|-------------------------|
| CSU Drake Unit 6 | 85  | \$6,647,835             |
| Nucla            | 110 | \$7,604,627             |
| CSU Drake Unit 7 | 142 | \$8,829,321             |

**Hydrated Ash Reinjection**

|                            |           |
|----------------------------|-----------|
| HAR Control Efficiency     | 80%       |
| Controlled SO2 - HAR only  | 267.0 tpy |
| Overall Control - HAR only | 94.9%     |

**Wet Scrubbing**

|                                 |          |
|---------------------------------|----------|
| Wet Scrubbing Control           | 94%      |
| Controlled SO2 - wet scrub only | 80.1 tpy |
| Overall Control - wet only      | 98.5%    |

| Option                                                      | Overall Control Efficiency <sup>1</sup> | Control Efficiency (%) | Resultant Emissions          |                           |                                   |
|-------------------------------------------------------------|-----------------------------------------|------------------------|------------------------------|---------------------------|-----------------------------------|
|                                                             |                                         |                        | Annual Emissions (tons/year) | Annual Average (lb/MMBtu) | 30-day Rolling Average (lb/MMBtu) |
| Baseline                                                    | 77.4%                                   |                        | 1335                         | 0.299                     | 0.314                             |
| Limestone Injection Improvements                            | 85.0%                                   | 39.39                  | 809.3                        | 0.182                     | 0.191                             |
| Hydrated Ash Reinjection                                    | 94.9%                                   | 80.00                  | 267.0                        | 0.060                     | 0.063                             |
| Spray Dry Absorber                                          | 96.7%                                   | 87.00                  | 173.6                        | 0.039                     | 0.041                             |
| Hydrated Ash Reinjection + Limestone Injection Improvements | 96.9%                                   | 87.88                  | 161.9                        | 0.036                     | 0.038                             |
| Limestone Injection Improvements + SDA                      | 98.4%                                   | 93.94                  | 80.9                         | 0.018                     | 0.019                             |
| Wet Scrubbing                                               | 98.5%                                   | 94.00                  | 80.1                         | 0.018                     | 0.019                             |

### NUCLA 4 SO2 COST ANALYSIS

| Alternative                                                 | Control Efficiency (%) | Resultant Emissions          |                           |                                   |
|-------------------------------------------------------------|------------------------|------------------------------|---------------------------|-----------------------------------|
|                                                             |                        | Annual Emissions (tons/year) | Annual Average (lb/MMBtu) | 30-day Rolling Average (lb/MMBtu) |
| Baseline                                                    | ---                    | 1,335                        | 0.30                      | 0.31                              |
| Limestone Injection Improvements                            | 39.4                   | 809                          | 0.18                      | 0.19                              |
| Hydrated Ash Reinjection                                    | 80.0                   | 267                          | 0.06                      | 0.06                              |
| SDA                                                         | 87.0                   | 174                          | 0.04                      | 0.04                              |
| Hydrated Ash Reinjection + Limestone Injection Improvements | 87.9                   | 162                          | 0.04                      | 0.04                              |
| Limestone Injection Improvements + SDA                      | 93.9                   | 81                           | 0.02                      | 0.02                              |
| Wet Scrubbing                                               | 94.0                   | 80                           | 0.02                      | 0.02                              |

| Alternative                                                 | Emissions Reduction (tpy) | Annualized Cost (\$) | Cost Effectiveness (\$/ton) | Incremental Cost (\$/ton) |
|-------------------------------------------------------------|---------------------------|----------------------|-----------------------------|---------------------------|
| Baseline                                                    | 0                         | \$0                  | \$0                         | ---                       |
| Limestone Injection Improvements                            | 526                       | \$2,188,595          | \$4,161                     | \$4,161                   |
| Hydrated Ash Reinjection                                    | 1,068                     | not determined       |                             |                           |
| Spray Dry Absorber                                          | 1,162                     | \$ 7,604,627         | \$6,547                     | \$8,520                   |
| Hydrated Ash Reinjection + Limestone Injection Improvements | 1,173                     | not determined       |                             |                           |
| Limestone Injection Improvements + SDA                      | 1,254                     | \$9,793,222          | \$7,808                     | \$23,619                  |
| Wet Scrubbing                                               | 1,255                     | not determined       |                             |                           |

## Nucla Unit 4: Cost Evaluation for NOx Control Systems

### Estimated Uncontrolled NOx Emissions: Average of 06-08 Baseline

|                             |           |          |        |
|-----------------------------|-----------|----------|--------|
| Sulfur content of coal      | 0.83%     |          |        |
| Uncontrolled EF             | 8.7       | lb/ton   |        |
| Uncontrolled EF             | 0.39      | lb/MMBtu |        |
| Coal Burned                 | 403,209   | ton      |        |
| Coal Burned                 | 8,845,213 | MMBtu    |        |
| Calc. Unc. Emissions        | 1754      | tpy      | Note 1 |
| CAMD Uncontrolled Emissions | 1760      | tpy      | Note 2 |

Note 1: Calculated based on average coal heat rates and burn rates as reported in APENs

Note 2: Average of 2006 - 2008 CAMD data. This value will be used instead of the calculated value in subsequent calculations

### Estimated Controlled NOx Emissions - SNCR

|                      |       |     |
|----------------------|-------|-----|
| Control Efficiency   | 43.6% |     |
| Controlled Emissions | 992.6 | tpy |
| NOx Removed          | 767.4 | tpy |

### Cost Estimate for Scaling Up Existing SNCR System<sup>1</sup>

|                                          |                      |  |
|------------------------------------------|----------------------|--|
| <b>Capital Costs</b>                     |                      |  |
| <b>Direct</b>                            |                      |  |
| Demolition                               | \$ 40,000            |  |
| Civil/Site                               | \$ 839,000           |  |
| Concrete/Substructures                   | \$ 107,000           |  |
| Superstructures                          | \$ 1,364,000         |  |
| Piping                                   | \$ 395,000           |  |
| Ammonia System                           | \$ 731,000           |  |
| Balance of Mechanical Equipment          | \$ 190,000           |  |
| Electrical                               | \$ 1,694,000         |  |
| Controls/Instrumentation                 | \$ 1,222,000         |  |
| Coatings/Insulation                      | \$ 31,000            |  |
| <b>Subtotal: Direct</b>                  | <b>\$ 6,613,000</b>  |  |
| <b>Indirect</b>                          |                      |  |
| Construction                             | \$ 2,465,000         |  |
| Engineering                              | \$ 1,000,000         |  |
| Project Indirect                         | \$ 1,600,000         |  |
| Contingency                              | \$ 1,200,000         |  |
| <b>Subtotal Indirect</b>                 | <b>\$ 6,265,000</b>  |  |
| <b>Total Initial Costs</b>               | <b>\$ 12,878,000</b> |  |
| <b>Annual Differential O&amp;M Costs</b> |                      |  |
| Operating Labor                          | \$ 85,000            |  |
| Maintenance Labor and Matls              | \$ 198,000           |  |
| Yearly Emissions Testing (2x/yr)         | \$ 27,000            |  |
| Auxiliary Power Increase                 | \$ 15,000            |  |
| Urea                                     | \$ 698,000           |  |
| <b>Total O&amp;M</b>                     | <b>\$ 1,023,000</b>  |  |
| <b>Annualized Cost</b>                   |                      |  |
| Timeframe                                | 20 years             |  |
| Interest Rate                            | 7%                   |  |



#### Nucla Unit 4: Cost Evaluation for NOx Control Systems

|                           |                         |  |
|---------------------------|-------------------------|--|
| Capital Recovery Factor   | 0.094392926             |  |
| Capital Recovery Cost     | \$ 1,215,592            |  |
| <b>Annualized Cost</b>    | <b>\$ 2,238,592</b>     |  |
| <b>Cost Effectiveness</b> | <b>\$ 2,917 per ton</b> |  |

Note 1: Costs are in 2009 dollars and were provided by Tri-State (May 14, 2010 Letter from Barbara Walz to Kirsten King RE: Response to the Division's January 25, 2010 Letter Regarding NOx Emissions Control Costs) except for the auxiliary Power increase, which is from a July 30, 2010 letter provided by Tri-State (RE: Third Response to the Division's Requests for NOx Emissions Controls Information).

### **NUCLA 4 NO<sub>x</sub> COST ANALYSIS**

| Alternative                              | Control Efficiency (%) | Resultant Emissions          |                           |                                   |
|------------------------------------------|------------------------|------------------------------|---------------------------|-----------------------------------|
|                                          |                        | Annual Emissions (tons/year) | Annual Average (lb/MMBtu) | 30-day Rolling Average (lb/MMBtu) |
| Baseline                                 | ---                    | 1,675                        | 0.387                     |                                   |
| Selective Non-Catalytic Reduction (SNCR) | 10.3                   | 1,503                        | 0.347                     | 0.399                             |
| Selective Non-Catalytic Reduction (SNCR) | 43.6                   | 945                          | 0.218                     | 0.251                             |

| Alternative                              | Emissions Reduction (tpy) | Annualized Cost (\$) | Cost Effectiveness (\$/ton) | Incremental Cost (\$/ton) |
|------------------------------------------|---------------------------|----------------------|-----------------------------|---------------------------|
| Baseline                                 | 0                         | \$0                  | \$0                         | ---                       |
| Selective Non-Catalytic Reduction (SNCR) | 173                       | \$2,238,592          | \$12,974                    | \$12,974                  |
| Selective Non-Catalytic Reduction (SNCR) | 730                       | \$2,238,592          | \$3,065                     | ---                       |

Full Load            114 MW  
                          1112 MMBtu/hr  
                          26688 MMBtu/day

At Full Load (%)  
    2006    100.7%  
    2007    96.6%  
    2008    95.3%  
Average    97.6%

Hours of Operation  
    2006    8178.7  
    2007    7730.88  
    2008    7873.97  
Average    7927.85  
                  8760  
Op Hours    90.5%

Control Efficiency  
    2006    4.8%  
    2007    -2.6%  
    2008    -0.7%  
Average    0.5%

APENs marked as yellow are those where I can't find backup (emissions at the subpoint level) in the files

| AIRS ID    | Subpoints | Description                 | Year 2006 Actual emissions obtained from APEN received on: | Year 2007 Actual emissions obtained from APEN received on: | Year 2008 Actual emissions obtained from APEN received on:   |
|------------|-----------|-----------------------------|------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|
| 006        | P401      | Cooling Tower 1-3           | 6/18/2007<br>APEN states emissions are for year 2006       | 4/29/2008<br>APEN states emissions for year 2007           | Assume same as 2007                                          |
| 008        | P402      | Cooling Tower 4             | 4/30/2007<br>APEN states emissions are for year 2006       | Assume same as 2006                                        | Assume same as 2006 - <i>Update: Found an APEN for 2008.</i> |
| 003        | 101 - 106 | Coal                        | 4/30/2003<br>APEN states emissions are for year 2002       | 4/29/2008<br>APEN states emissions for year 2007           | Assume same as 2007                                          |
| 005        | 201 - 205 | Limestone                   | 4/18/2005<br>APEN states emissions are for year 2004       | Assume same as 2006                                        | Assume same as 2006                                          |
| 011 (004?) | 303a&b    | Ash hauling (disposal site) | 4/30/2003                                                  | 4/29/2008                                                  |                                                              |
| 050 (004?) | 301a-d    | Ash conveying               | APEN states emissions are for year                         | APEN for point 004 states emissions                        |                                                              |
| 051 (004?) | 302a-d    | Ash Truck Loading           | 2002                                                       | for year 2007                                              | Assume same as 2007                                          |

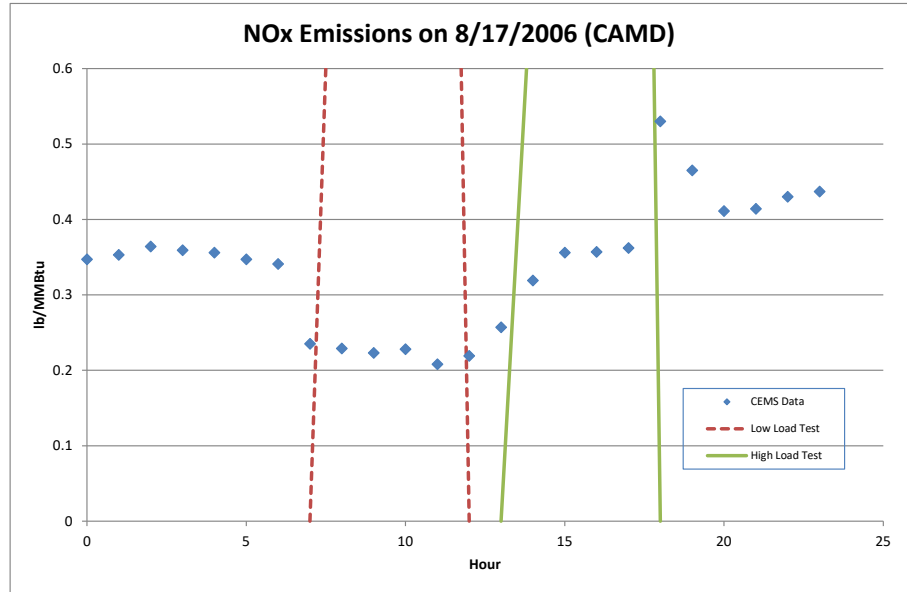
Additional notes:

The permit notes AIRS ID 050 & 051 for points 301/302, and is blank for point 303. The APEN filed under AIRS 004 includes all of these points.

|    | Facility ID | Unit ID | Year | program | op time | # months | SO2 tons        | Avg nox rate<br>(lb/MMbt u) | NOx tons        | CO2 tons  | heat input<br>(mmbtu) |                 |
|----|-------------|---------|------|---------|---------|----------|-----------------|-----------------------------|-----------------|-----------|-----------------------|-----------------|
| CO | Nucla       | 527 1   | 2006 | ARP     | 8,179   | 12       | 1,509.5         | 0.37                        | 1,751.1         | 951,296.9 | 9,275,770             |                 |
| CO | Nucla       | 527 1   | 2007 | ARP     | 7,731   | 12       | 1,230.5         | 0.41                        | 1,789.4         | 885,587.9 | 8,638,028             |                 |
| CO | Nucla       | 527 1   | 2008 | ARP     | 7,874   | 12       | 1,265.7         | 0.40                        | 1,738.1         | 884,089.1 | 8,621,841             |                 |
|    |             |         |      |         |         |          | 1509.5          | 0.37                        | 1751.1          | 9275770   | 0.377564              | 0.325472        |
|    |             |         |      |         |         |          | 1230.5          | 0.41                        | 1789.4          | 8638028   | 0.414308              | 0.284903        |
|    |             |         |      |         |         |          | 1265.7          | 0.4                         | 1738.1          | 8621841   | 0.403185              | 0.293603        |
|    |             |         |      |         |         |          | <b>1335.233</b> | <b>0.393333</b>             | <b>1759.533</b> |           | <b>0.398352</b>       | <b>0.301326</b> |

Options for uncontrolled NOx emission factor:  
0.3933 lb/MMbtu average CAMD

| Hour  | NOx Emission Rate (lb/MMBtu) |
|-------|------------------------------|
| 0     | 0.347                        |
| 1     | 0.353                        |
| 2     | 0.364                        |
| 3     | 0.359                        |
| 4     | 0.356                        |
| 5     | 0.347                        |
| 6     | 0.341                        |
| 7     | 0.235                        |
| 7.5   | 0.6                          |
| 8     | 0.229                        |
| 9     | 0.223                        |
| 10    | 0.228                        |
| 11    | 0.208                        |
| 11.75 | 0.6                          |
| 12    | 0.219                        |
| 13    | 0.257                        |
| 13.8  | 0.6                          |
| 14    | 0.319                        |
| 15    | 0.356                        |
| 16    | 0.357                        |
| 17    | 0.362                        |
| 17.8  | 0.6                          |
| 18    | 0.53                         |
| 19    | 0.465                        |
| 20    | 0.411                        |
| 21    | 0.414                        |
| 22    | 0.43                         |
| 23    | 0.437                        |



|          |          |       |
|----------|----------|-------|
| Avg Low  | 0.222    | 0.431 |
| Avg High | 0.3485   | 0.106 |
| Equation | 0.431038 |       |

