

17th 2-2-01
DECLASSIFIED

990325-EI
(Closed)

EXHIBIT "A"

The information provided herein should be maintained as proprietary confidential business information pursuant to Section 366.093 and Rule 25-22.006, F.A.C.

Part 1 of 4
DOCUMENT NUMBER-DATE

06499 MAY 24 88

FPSC-RECORDS/REPORTING

CONFIDENTIAL

EXHIBIT NO. 8

DECLASSIFIED

Docket No: 990325-EI

Party: Gulf Power Company

Description: COMPOSITE EXHIBIT

- (1) Gulf's CONFIDENTIAL Response to Staff Interrogatory Nos. 1 & 17
- (2) CONFIDENTIAL Late-filed Exhibit Nos. 1, 2, and 4 from Deposition of William Pope

Proffered By: Commission Staff

DN 5936-99 (1) Interrog.
5/10/99

PART 1+2
DN 06499-99 (2) POPE
5/24/99

with memo 07169-99
Part 3 + 4 sent to source (Badders)

17. Identify and provide the forecast of all fixed and variable costs (\$/MMBtu) for transporting natural gas for all self build alternatives and all RFP respondents from 2002 to 2021. Include any charge, fee, tax, levy or any other monetary or non-monetary consideration to transport natural gas. State all assumptions. (State whether costs are in nominal or real dollars.)

RESPONSE:

There were no fuel estimates performed for self-build option "Mulat Tower" since this concerned a cogeneration facility that had a delivered gas price and annual escalation provided as part of the input assumptions. Likewise, the fuel for Respondent C of the RFP analysis was assumed to be that which was quoted. The fuel projections used for Respondents A and B of the RFP analysis also had backup oil components added to their natural gas prices to account for those hours the gas would not be available under the terms of their non-firm gas proposal.

The remainder of this response was filed with Letter of Intent to request Confidential treatment.

STAFF COMPOSITE EXHIBIT
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FPSC Staff's First Set
Of Interrogatories
Docket No. 990325-EI
GULF POWER COMPANY
April 19, 1999
Item No. 1

1. Provide a 20-year, present worth revenue requirements (PWRR) analysis of Gulf's proposed Smith Unit 3, the other self-build options, and all respondents to Gulf's Request for Proposals (RFP). Provide both on an annual and a cumulative PWRR basis, and separate capital, fixed operations and maintenance (O&M), and variable costs for each year. Include all financial assumptions for the self-build options and the respondents.

RESPONSE:

The values requested for the four self-build analysis options are attached. The financial assumptions used for the Self-build analysis are those shown for 1997 in the answer to Interrogatory No. 13. The response for the figures pertaining to the RFP analyses have been filed with a Letter of Intent to request Confidential treatment.

CONFIDENTIAL

| 20 Year Self-Build | | | | | | | | | | | | | | | | |
|--------------------|---------------------------|----------------------|-------------------------------|--------------------------|------------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------|-----------|----------------------------------|--|---|-------------------------------------|---|--|
| Proposal Size (MW) | Pipeline Size (MW) | | | | Base Case Size (MW) | | | | Disc. Rate | | | | 8.47% | | | |
| 574.1 | 575 | | | | 600 | | | | | | | | | | | |
| Year | Capacity Costs (\$/kw-Yr) | Fixed O&M (\$/kw-Yr) | Fixed Fuel Charges (\$/kw-Yr) | Pipeline Cost (\$/kw-Yr) | Total Fixed Costs (\$/kw-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen.Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) |
| 2002 | 44.86 | 2.46 | 17.95 | 0.00 | 65.27 | 2,887,357 | 2,864,129 | 38.71 | 26.56 | 1.0000 | 383.14 | 26.56 | 0.00 | (16.20) | -16.20 | 10.35 |
| 2003 | 73.53 | 4.34 | 30.77 | 0.00 | 108.64 | 3,059,636 | 3,032,476 | 45.27 | 63.38 | 0.9220 | 58.43 | 84.99 | 0.00 | (31.51) | -31.51 | 53.47 |
| 2004 | 69.89 | 4.46 | 30.77 | 0.00 | 105.13 | 3,234,907 | 3,206,518 | 47.31 | 57.81 | 0.8500 | 49.14 | 134.13 | 0.00 | (46.55) | -46.55 | 87.58 |
| 2005 | 66.42 | 4.59 | 30.77 | 0.00 | 101.79 | 3,542,591 | 3,516,169 | 44.04 | 57.75 | 0.7837 | 45.26 | 179.38 | 0.00 | (60.95) | -60.95 | 118.43 |
| 2006 | 63.11 | 4.73 | 30.77 | 0.00 | 98.61 | 3,736,644 | 3,713,465 | 38.63 | 59.98 | 0.7225 | 43.33 | 222.72 | 0.00 | (74.71) | -74.71 | 148.01 |
| 2007 | 59.94 | 4.86 | 30.77 | 0.00 | 95.57 | 3,997,015 | 3,968,658 | 47.26 | 48.31 | 0.6661 | 32.18 | 254.90 | 0.00 | (86.59) | -86.59 | 168.31 |
| 2008 | 56.87 | 5.00 | 30.77 | 0.00 | 92.64 | 4,242,135 | 4,210,209 | 53.21 | 39.43 | 0.6141 | 24.22 | 279.12 | 0.00 | (96.44) | -96.44 | 182.68 |
| 2009 | 53.84 | 5.15 | 30.77 | 0.00 | 89.76 | 4,498,493 | 4,467,472 | 51.70 | 38.06 | 0.5662 | 21.55 | 300.66 | 0.00 | (103.33) | -103.33 | 197.33 |
| 2010 | 50.80 | 5.29 | 30.77 | 0.00 | 86.87 | 4,520,869 | 4,489,006 | 53.11 | 33.76 | 0.5220 | 17.62 | 318.29 | 0.00 | (107.62) | -107.62 | 210.67 |
| 2011 | 47.77 | 5.45 | 30.77 | 0.00 | 83.99 | 4,702,102 | 4,669,882 | 53.70 | 30.29 | 0.4813 | 14.58 | 332.87 | 0.00 | (109.62) | -109.62 | 223.25 |
| 2012 | 44.73 | 5.60 | 30.77 | 0.00 | 81.11 | 4,997,471 | 4,963,511 | 56.60 | 24.51 | 0.4437 | 10.87 | 343.74 | 0.00 | (109.62) | -109.62 | 234.12 |
| 2013 | 41.70 | 5.76 | 30.77 | 0.00 | 78.24 | 5,300,868 | 5,266,488 | 57.30 | 20.94 | 0.4091 | 8.56 | 352.30 | 0.00 | (109.62) | -109.62 | 242.69 |
| 2014 | 38.66 | 5.93 | 30.77 | 0.00 | 75.36 | 5,612,784 | 5,581,931 | 51.42 | 23.94 | 0.3772 | 9.03 | 361.33 | 0.00 | (109.62) | -109.62 | 251.72 |
| 2015 | 35.63 | 6.10 | 30.77 | 0.00 | 72.50 | 5,970,733 | 5,937,904 | 54.71 | 17.79 | 0.3477 | 6.19 | 367.52 | 0.00 | (109.62) | -109.62 | 257.90 |
| 2016 | 32.59 | 6.28 | 30.77 | 0.00 | 69.64 | 6,341,677 | 6,305,529 | 60.25 | 9.39 | 0.3206 | 3.01 | 370.53 | 0.00 | (109.62) | -109.62 | 260.91 |
| 2017 | 29.85 | 6.46 | 30.77 | 0.00 | 67.08 | 7,023,105 | 6,987,181 | 59.87 | 7.21 | 0.2956 | 2.13 | 372.66 | 0.00 | (109.62) | -109.62 | 263.04 |
| 2018 | 27.68 | 6.64 | 30.77 | 0.00 | 65.10 | 7,571,537 | 7,537,738 | 56.33 | 8.76 | 0.2725 | 2.39 | 375.05 | 0.00 | (109.62) | -109.62 | 265.43 |
| 2019 | 25.80 | 6.83 | 30.77 | 0.00 | 63.41 | 8,247,366 | 8,216,039 | 52.21 | 11.20 | 0.2512 | 2.81 | 377.86 | 0.00 | (109.62) | -109.62 | 268.24 |
| 2020 | 23.91 | 7.03 | 30.77 | 0.00 | 61.71 | 8,859,275 | 8,826,029 | 55.41 | 6.30 | 0.2316 | 1.46 | 379.32 | 0.00 | (109.62) | -109.62 | 269.70 |
| 2021 | 22.03 | 7.23 | 30.77 | 0.00 | 60.04 | 9,707,975 | 9,674,679 | 55.49 | 4.54 | 0.2135 | 0.97 | 380.29 | 0.00 | (109.62) | -109.62 | 270.67 |
| 2022 | 8.84 | 3.10 | 12.82 | 0.00 | 24.56 | 10,449,507 | 10,443,448 | 10.10 | 14.47 | 0.1969 | 2.85 | 383.14 | 0.00 | (109.62) | -109.62 | 273.52 |

002

DOCUMENT NUMBER-DATE
 06508 MAY 24 88
 FPSC-RECORDS/REPORTING

| SBO Smith Unit 3 (with #3 Fuel Supplier) | | | | | | | | | | | | | | | | |
|--|---------------------------|----------------------|-------------------------------|--------------------------|------------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------|-----------|-----------------------------------|--|---|-------------------------------------|---|--|
| Proposal Size (MW) | Pipeline Size (MW) | | | | Base Case Size (MW) | | | | Disc. Rate | | | | | | | |
| 540 | 540 | | | | 600 | | | | 8.47% | | | | | | | |
| Year | Capacity Costs (\$/kw-Yr) | Fixed O&M (\$/kw-Yr) | Fixed Fuel Charges (\$/kw-Yr) | Pipeline Cost (\$/kw-Yr) | Total Fixed Costs (\$/kw-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kw-Yr) | Total Cost (\$/kw-Yr) | PV Factor | NPV of Total Gen. Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) |
| 2002 | 48.00 | 4.48 | 19.11 | 0 | 68.60 | 2,887,357 | 2,863,388 | 39.95 | 28.65 | 1 | 388.77 | 28.65 | 0.00 | (16.20) | -16.20 | 12.44 |
| 2003 | 74.00 | 4.61 | 32.77 | 0 | 111.38 | 3,059,636 | 3,031,799 | 46.39 | 64.99 | 0.9220 | 59.91 | 88.56 | 0.00 | (31.51) | -31.51 | 57.05 |
| 2004 | 71.00 | 4.75 | 32.77 | 0 | 108.51 | 3,234,907 | 3,205,443 | 49.11 | 59.41 | 0.8500 | 50.50 | 139.06 | 0.00 | (46.55) | -46.55 | 92.51 |
| 2005 | 67.00 | 4.88 | 32.77 | 0 | 104.65 | 3,542,591 | 3,515,185 | 45.68 | 58.97 | 0.7837 | 46.22 | 185.28 | 0.00 | (60.95) | -60.95 | 124.32 |
| 2006 | 64.00 | 5.02 | 32.77 | 0 | 101.79 | 3,736,644 | 3,711,987 | 41.10 | 60.70 | 0.7225 | 43.85 | 229.13 | 0.00 | (74.71) | -74.71 | 154.42 |
| 2007 | 61.00 | 5.17 | 32.77 | 0 | 98.94 | 3,997,015 | 3,967,313 | 49.50 | 49.43 | 0.6661 | 32.93 | 262.06 | 0.00 | (86.59) | -86.59 | 175.47 |
| 2008 | 68.00 | 5.32 | 32.77 | 0 | 96.08 | 4,242,135 | 4,210,037 | 53.50 | 42.59 | 0.6141 | 26.15 | 288.21 | 0.00 | (96.44) | -96.44 | 191.77 |
| 2009 | 64.00 | 5.47 | 32.77 | 0 | 92.24 | 4,498,493 | 4,466,263 | 53.72 | 38.52 | 0.5662 | 21.81 | 310.02 | 0.00 | (103.33) | -103.33 | 206.69 |
| 2010 | 51.00 | 5.63 | 32.77 | 0 | 89.39 | 4,520,869 | 4,487,615 | 55.42 | 33.97 | 0.5220 | 17.73 | 327.76 | 0.00 | (107.62) | -107.62 | 220.14 |
| 2011 | 48.00 | 5.79 | 32.77 | 0 | 86.56 | 4,702,102 | 4,667,769 | 57.22 | 29.34 | 0.4813 | 14.12 | 341.87 | 0.00 | (109.62) | -109.62 | 232.26 |
| 2012 | 45.00 | 5.96 | 32.77 | 0 | 83.72 | 4,997,471 | 4,962,738 | 57.89 | 25.84 | 0.4437 | 11.46 | 353.34 | 0.00 | (109.62) | -109.62 | 243.72 |
| 2013 | 42.00 | 6.13 | 32.77 | 0 | 80.90 | 5,300,868 | 5,265,948 | 58.20 | 22.70 | 0.4091 | 9.28 | 362.62 | 0.00 | (109.62) | -109.62 | 253.01 |
| 2014 | 39.00 | 6.30 | 32.77 | 0 | 78.07 | 5,612,784 | 5,581,476 | 52.18 | 25.89 | 0.3772 | 9.77 | 372.39 | 0.00 | (109.62) | -109.62 | 262.77 |
| 2015 | 36.00 | 6.49 | 32.77 | 0 | 75.25 | 5,970,733 | 5,935,770 | 58.27 | 18.98 | 0.3477 | 5.91 | 378.29 | 0.00 | (109.62) | -109.62 | 268.68 |
| 2016 | 33.00 | 6.67 | 32.77 | 0 | 72.44 | 6,341,677 | 6,304,990 | 61.15 | 11.29 | 0.3206 | 3.62 | 381.91 | 0.00 | (109.62) | -109.62 | 272.30 |
| 2017 | 30.00 | 6.87 | 32.77 | 0 | 69.63 | 7,023,105 | 6,986,747 | 60.60 | 9.04 | 0.2956 | 2.67 | 384.58 | 0.00 | (109.62) | -109.62 | 274.97 |
| 2018 | 28.00 | 7.06 | 32.77 | 0 | 67.83 | 7,571,537 | 7,537,255 | 57.14 | 10.69 | 0.2725 | 2.91 | 387.50 | 0.00 | (109.62) | -109.62 | 277.88 |
| 2019 | 26.00 | 7.27 | 32.77 | 0 | 66.03 | 8,247,366 | 8,215,505 | 53.10 | 12.93 | 0.2512 | 3.25 | 390.75 | 0.00 | (109.62) | -109.62 | 281.13 |
| 2020 | 24.00 | 7.48 | 32.77 | 0 | 64.24 | 8,859,275 | 8,825,582 | 56.16 | 8.09 | 0.2316 | 1.87 | 392.62 | 0.00 | (109.62) | -109.62 | 283.00 |
| 2021 | 22.00 | 7.69 | 32.77 | 0 | 62.46 | 9,707,975 | 9,674,302 | 56.12 | 6.34 | 0.2135 | 1.35 | 393.97 | 0.00 | (109.62) | -109.62 | 284.36 |
| 2022 | 8.00 | 7.91 | 13.65 | 0 | 30.57 | 10,449,507 | 10,415,299 | 57.01 | -26.45 | 0.1969 | -5.21 | 388.77 | 0.00 | (109.62) | -109.62 | 279.15 |

| HR @ max (MBTU/MWh) | | 6.787 | |
|------------------------------|------------------|-------------------------|--|
| Fuel Volatility VOM (\$/MWh) | N Fuel (\$/MBTU) | Dispatch Price (\$/MWh) | |
| 2.06 | 2.17 | 16.79 | |
| 2.13 | 2.17 | 16.86 | |
| 2.19 | 2.17 | 16.92 | |
| 2.25 | 2.35 | 18.21 | |
| 2.31 | 2.51 | 19.32 | |
| 2.38 | 2.67 | 20.51 | |
| 2.45 | 2.85 | 21.77 | |
| 2.51 | 2.87 | 22.02 | |
| 2.59 | 2.90 | 22.26 | |
| 2.67 | 2.97 | 22.84 | |
| 2.75 | 3.05 | 23.43 | |
| 2.82 | 3.12 | 24.02 | |
| 2.91 | 3.20 | 24.65 | |
| 2.99 | 3.28 | 25.27 | |
| 3.07 | 3.36 | 25.88 | |
| 3.17 | 3.62 | 27.74 | |
| 3.25 | 3.90 | 29.72 | |
| 3.34 | 4.20 | 31.83 | |
| 3.45 | 4.35 | 32.97 | |
| 3.54 | 4.51 | 34.13 | |
| 3.65 | 4.64 | 35.12 | |

Capacity Cost Declining Rev. Req. for SBO using 167 million nominal costs

003

| Respondent A | | | | | | | | | | | | |
|--------------------|---------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------------|-----------|-----------------------------------|--|---|-------------------------------------|---|--|
| Proposal Size (MW) | Base Case Size (MW) | | Disc. Rate | | | | | | | | | |
| 351.5 | 600 | | 8.47% | | | | | | | | | |
| Year | Capacity Costs (\$/kW-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Fixed Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen. Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) |
| | | | | | | | 500.57 | | | | | 591.99 |
| 2002 | 38.42 | 2,887,357 | 2,869,499 | 29.76 | 8.66 | 1 | 8.66 | 8.66 | 37.69 | (11.84) | 25.85 | 34.51 |
| 2003 | 67.84 | 3,059,636 | 3,042,551 | 28.47 | 39.36 | 0.9220 | 36.29 | 44.95 | 71.28 | (23.02) | 48.26 | 93.21 |
| 2004 | 69.87 | 3,234,907 | 3,217,114 | 29.65 | 40.22 | 0.8500 | 34.19 | 79.13 | 102.05 | (34.02) | 68.03 | 147.16 |
| 2005 | 71.97 | 3,542,591 | 3,526,309 | 27.14 | 44.83 | 0.7837 | 35.13 | 114.27 | 127.69 | (44.57) | 83.12 | 197.39 |
| 2006 | 74.13 | 3,736,644 | 3,723,086 | 22.60 | 51.53 | 0.7225 | 37.23 | 151.50 | 153.08 | (54.68) | 98.39 | 249.90 |
| 2007 | 76.35 | 3,997,015 | 3,978,524 | 30.82 | 45.53 | 0.6661 | 30.33 | 181.83 | 174.10 | (63.44) | 110.67 | 292.50 |
| 2008 | 78.64 | 4,242,135 | 4,222,519 | 32.69 | 45.95 | 0.6141 | 28.22 | 210.05 | 191.54 | (70.69) | 120.85 | 330.91 |
| 2009 | 81.00 | 4,498,493 | 4,476,971 | 35.87 | 45.13 | 0.5682 | 25.55 | 235.61 | 192.56 | (75.75) | 116.81 | 352.42 |
| 2010 | 83.43 | 4,520,869 | 4,498,724 | 36.91 | 46.52 | 0.5220 | 24.29 | 259.89 | 188.46 | (78.90) | 109.56 | 369.45 |
| 2011 | 85.94 | 4,702,102 | 4,679,843 | 37.10 | 48.84 | 0.4813 | 23.50 | 283.40 | 186.41 | (80.37) | 106.04 | 389.44 |
| 2012 | 88.51 | 4,997,471 | 4,974,259 | 38.69 | 49.83 | 0.4437 | 22.11 | 305.51 | 184.62 | (80.37) | 104.25 | 409.75 |
| 2013 | 91.17 | 5,300,868 | 5,277,409 | 39.10 | 52.07 | 0.4091 | 21.30 | 326.81 | 183.33 | (80.37) | 102.96 | 429.77 |
| 2014 | 93.90 | 5,612,784 | 5,591,894 | 34.82 | 59.09 | 0.3772 | 22.29 | 349.09 | 182.82 | (80.37) | 102.45 | 451.54 |
| 2015 | 96.72 | 5,970,733 | 5,948,642 | 36.82 | 59.90 | 0.3477 | 20.83 | 369.92 | 180.26 | (80.37) | 99.89 | 469.81 |
| 2016 | 99.62 | 6,341,677 | 6,318,920 | 37.93 | 61.69 | 0.3206 | 19.78 | 389.70 | 178.97 | (80.37) | 98.60 | 488.31 |
| 2017 | 102.61 | 7,023,105 | 6,998,748 | 40.59 | 62.02 | 0.2956 | 18.33 | 408.03 | 178.72 | (80.37) | 98.35 | 506.38 |
| 2018 | 105.69 | 7,571,537 | 7,548,000 | 39.23 | 66.46 | 0.2725 | 18.11 | 428.14 | 174.62 | (80.37) | 94.25 | 520.39 |
| 2019 | 108.86 | 8,247,366 | 8,224,042 | 38.87 | 69.99 | 0.2512 | 17.58 | 443.73 | 174.87 | (80.37) | 94.50 | 538.23 |
| 2020 | 112.13 | 8,859,275 | 8,836,370 | 38.18 | 73.95 | 0.2316 | 17.13 | 460.86 | 173.85 | (80.37) | 93.48 | 554.33 |
| 2021 | 115.49 | 9,707,975 | 9,683,562 | 40.69 | 74.80 | 0.2135 | 15.97 | 476.83 | 171.79 | (80.37) | 91.42 | 568.25 |
| 2022 | 59.48 | 10,449,507 | 10,486,167 | -61.10 | 120.58 | 0.1969 | 23.74 | 500.57 | 171.79 | (80.37) | 91.42 | 591.99 |

| HR @ max (MBTU/MWh) | 7.1 | | | | |
|-------------------------|------------|----------------|------------------------------------|--------------------------------|---------------------------------|
| Fuel Volatility | Y | MW ==> | 194.3 | 157.2 | 351.5 |
| Santa Rosa VOM (\$/MWh) | Mobile VOM | Fuel (\$/MBTU) | Santa Rosa Dispatch Price (\$/MWh) | Mobile Dispatch Price (\$/MWh) | Average Dispatch Price (\$/MWh) |
| 2.300 | 2.720 | 2.44 | 19.65 | 20.07 | 19.84 |
| 2.369 | 2.802 | 2.44 | 19.72 | 20.16 | 19.92 |
| 2.440 | 2.886 | 2.44 | 19.79 | 20.24 | 19.99 |
| 2.513 | 2.972 | 2.63 | 21.17 | 21.63 | 21.37 |
| 2.589 | 3.061 | 2.78 | 22.32 | 22.80 | 22.53 |
| 2.666 | 3.153 | 2.94 | 23.55 | 24.04 | 23.77 |
| 2.746 | 3.248 | 3.11 | 24.86 | 25.36 | 25.08 |
| 2.829 | 3.345 | 3.14 | 25.14 | 25.65 | 25.37 |
| 2.914 | 3.446 | 3.17 | 25.43 | 25.96 | 25.66 |
| 3.001 | 3.549 | 3.24 | 26.02 | 26.57 | 26.27 |
| 3.091 | 3.655 | 3.32 | 26.64 | 27.20 | 26.89 |
| 3.184 | 3.765 | 3.39 | 27.27 | 27.85 | 27.53 |
| 3.279 | 3.878 | 3.47 | 27.92 | 28.51 | 28.18 |
| 3.378 | 3.994 | 3.55 | 28.58 | 29.20 | 28.85 |
| 3.479 | 4.114 | 3.63 | 29.26 | 29.89 | 29.54 |
| 3.583 | 4.238 | 3.90 | 31.25 | 31.90 | 31.54 |
| 3.691 | 4.365 | 4.17 | 33.31 | 33.99 | 33.61 |
| 3.802 | 4.496 | 4.47 | 35.51 | 36.21 | 35.82 |
| 3.916 | 4.631 | 4.62 | 36.69 | 37.41 | 37.01 |
| 4.033 | 4.770 | 4.77 | 37.91 | 38.65 | 38.24 |
| 4.154 | 4.913 | 4.92 | 39.05 | 39.81 | 39.39 |

Capital Cost was supplied in \$/KW-month -

Two sites were Proposal - 177 MW and 212 MW for a total of 389 MW, but have summer capacities of 157.2 and 194.3 MW
 Capital costs for both sites were multiplied by their respective MW's and then divided by the total MW's

Year 2002 capital cost is for 7 months

Year 2012 capital cost is for 6 months

004

| Respondent B CC (7 Year Pricing) | | | | | | | | | | | | | | |
|----------------------------------|---------------------------|-------------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------------|-----------|----------------------------------|--|---|-------------------------------------|---|--|--|
| Proposal Size (MW) | 500 | | Base Case Size (MW) | | 600 | | | | Disc. Rate | 8.47% | | | | |
| Year | Capacity Costs (\$/kW-Yr) | Fixed Fuel Transp. (\$/kW-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Fixed Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen.Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) | |
| 2002 | 35.95 | 18.40 | 2,887,357 | 2,867,958 | 32.33 | 22.01 | 1 | 545.64 | 22.01 | 10.00 | (15.57) | -5.57 | 16.44 | |
| 2003 | 63.33 | 31.54 | 3,059,636 | 3,039,545 | 33.48 | 61.39 | 0.9220 | 56.60 | 78.61 | 20.00 | (30.27) | -10.27 | 68.33 | |
| 2004 | 64.89 | 31.54 | 3,234,907 | 3,213,924 | 34.97 | 61.45 | 0.8500 | 52.23 | 130.84 | 28.00 | (44.71) | -16.71 | 114.13 | |
| 2005 | 66.45 | 31.54 | 3,542,591 | 3,523,133 | 32.43 | 65.56 | 0.7837 | 51.38 | 182.22 | 34.00 | (58.55) | -24.55 | 157.67 | |
| 2006 | 68.15 | 31.54 | 3,736,644 | 3,720,243 | 27.34 | 72.35 | 0.7225 | 52.27 | 234.49 | 42.00 | (71.75) | -29.75 | 204.74 | |
| 2007 | 69.90 | 31.54 | 3,997,015 | 3,975,268 | 36.24 | 65.19 | 0.6661 | 43.42 | 277.92 | 48.00 | (83.16) | -35.16 | 242.75 | |
| 2008 | 71.64 | 31.54 | 4,242,135 | 4,216,760 | 42.29 | 60.89 | 0.6141 | 37.39 | 315.31 | 52.00 | (92.62) | -40.62 | 274.69 | |
| 2009 | 30.68 | 13.14 | 4,498,493 | 4,522,735 | -40.40 | 84.23 | 0.5662 | 47.69 | 363.00 | 58.00 | (99.24) | -41.24 | 321.76 | |
| 2010 | | | 4,520,869 | 4,545,548 | -41.13 | 41.13 | 0.5220 | 21.47 | 384.47 | 60.00 | (103.36) | -43.36 | 341.11 | |
| 2011 | | | 4,702,102 | 4,727,151 | -41.75 | 41.75 | 0.4813 | 20.09 | 404.56 | 64.00 | (105.28) | -41.28 | 363.28 | |
| 2012 | | | 4,997,471 | 5,021,682 | -40.35 | 40.35 | 0.4437 | 17.90 | 422.47 | 68.00 | (105.28) | -37.28 | 385.18 | |
| 2013 | | | 5,300,868 | 5,325,037 | -40.28 | 40.28 | 0.4091 | 16.48 | 438.95 | 70.00 | (105.28) | -35.28 | 403.66 | |
| 2014 | | | 5,612,784 | 5,639,132 | -43.91 | 43.91 | 0.3772 | 16.56 | 455.51 | 74.00 | (105.28) | -31.28 | 424.22 | |
| 2015 | | | 5,970,733 | 5,995,351 | -41.03 | 41.03 | 0.3477 | 14.27 | 469.78 | 76.00 | (105.28) | -29.28 | 440.49 | |
| 2016 | | | 6,341,677 | 6,366,726 | -41.75 | 41.75 | 0.3206 | 13.38 | 483.16 | 76.00 | (105.28) | -29.28 | 453.88 | |
| 2017 | | | 7,023,105 | 7,046,641 | -39.23 | 39.23 | 0.2956 | 11.59 | 494.75 | 80.00 | (105.28) | -25.28 | 469.47 | |
| 2018 | | | 7,571,537 | 7,597,414 | -43.13 | 43.13 | 0.2725 | 11.75 | 506.51 | 80.00 | (105.28) | -25.28 | 481.22 | |
| 2019 | | | 8,247,366 | 8,273,585 | -43.70 | 43.70 | 0.2512 | 10.98 | 517.48 | 82.00 | (105.28) | -23.28 | 494.20 | |
| 2020 | | | 8,859,275 | 8,884,251 | -41.63 | 41.63 | 0.2316 | 9.64 | 527.13 | 82.00 | (105.28) | -23.28 | 503.84 | |
| 2021 | | | 9,707,975 | 9,734,812 | -44.73 | 44.73 | 0.2135 | 9.55 | 536.68 | 82.00 | (105.28) | -23.28 | 513.39 | |
| 2022 | | | 10,449,507 | 10,476,817 | -45.52 | 45.52 | 0.1969 | 8.96 | 545.64 | 82.00 | (105.28) | -23.28 | 522.35 | |

| HR @ max (MBTU/MWh) | 6.783 | |
|---------------------|----------------|----------------|
| Fuel Volatility | N | Dispatch Price |
| VOM (\$/MWh) | Fuel (\$/MBTU) | (\$/MWh) |
| 4.000 | 2.31 | 19.65 |
| 4.058 | 2.31 | 19.71 |
| 4.158 | 2.31 | 19.81 |
| 4.264 | 2.49 | 21.16 |
| 4.374 | 2.65 | 22.33 |
| 4.484 | 2.81 | 23.57 |
| 4.594 | 2.99 | 24.89 |
| 4.640 | 3.02 | 25.13 |

Capital Cost was supplied in \$/kW-month -

The Proposal supplied monthly unit ratings with maximum summer rating of 500 MW;
We multiplied the monthly ratings by the monthly capital cost and then divided by the maximum summer rating

Year 2002 capital cost is for 7 months
Year 2009 capital cost is for 5 months

We used the heat rates supplied by Respondent B:
Avg. Heat Rate @ Max 6,783
Avg. Heat Rate @ Min 8,021

No maintenance schedule supplied -

Availability 95% (Supplied value)
Forced Outage Rate 2% (Supplied value)
Scheduled Maintenance 3% 11 days in April, 3 weeks every sixth year

Added Fixed Fuel Transportation Charge \$15,768,000 per year

CC

4

| Respondent B CC (10 Year Pricing) | | | | | | | | | | | | | | |
|-----------------------------------|---------------------------|-------------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------------|------------|-----------------------------------|--|---|-------------------------------------|---|--|--|
| Proposal Size (MW) | 500 | | Base Case Size (MW) | | 600 | | Disc. Rate | | 8.47% | | | | | |
| Year | Capacity Costs (\$/kw-Yr) | Fixed Fuel Transp. (\$/kw-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Fixed Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen. Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) | |
| | | | | | | | | 528.02 | | | | | 504.74 | |
| 2002 | 33.07 | 18.40 | 2,887,357 | 2,867,015 | 33.90 | 17.57 | 1 | 17.57 | 17.57 | 10.00 | (15.57) | -5.57 | 11.99 | |
| 2003 | 58.23 | 31.54 | 3,059,636 | 3,037,571 | 36.77 | 53.00 | 0.9220 | 48.86 | 66.43 | 20.00 | (30.27) | -10.27 | 56.15 | |
| 2004 | 59.69 | 31.54 | 3,234,907 | 3,211,498 | 39.01 | 52.21 | 0.8500 | 44.38 | 110.81 | 28.00 | (44.71) | -16.71 | 94.09 | |
| 2005 | 61.18 | 31.54 | 3,542,591 | 3,521,266 | 35.54 | 57.18 | 0.7837 | 44.81 | 155.62 | 34.00 | (58.55) | -24.55 | 131.07 | |
| 2006 | 62.71 | 31.54 | 3,736,644 | 3,719,148 | 29.16 | 65.09 | 0.7225 | 47.03 | 202.64 | 42.00 | (71.75) | -29.75 | 172.89 | |
| 2007 | 64.28 | 31.54 | 3,997,015 | 3,973,255 | 39.60 | 56.22 | 0.6661 | 37.45 | 240.09 | 48.00 | (83.16) | -35.16 | 204.93 | |
| 2008 | 65.89 | 31.54 | 4,242,135 | 4,215,970 | 43.61 | 53.82 | 0.6141 | 33.05 | 273.14 | 52.00 | (92.62) | -40.62 | 232.52 | |
| 2009 | 67.53 | 31.54 | 4,498,493 | 4,469,996 | 47.49 | 51.58 | 0.5662 | 29.20 | 302.34 | 58.00 | (99.24) | -41.24 | 261.10 | |
| 2010 | 69.22 | 31.54 | 4,520,869 | 4,491,815 | 48.42 | 52.34 | 0.5220 | 27.32 | 329.66 | 60.00 | (103.36) | -43.36 | 286.30 | |
| 2011 | 70.95 | 31.54 | 4,702,102 | 4,674,087 | 46.69 | 55.80 | 0.4813 | 26.85 | 356.52 | 64.00 | (105.28) | -41.28 | 315.23 | |
| 2012 | 30.39 | 13.14 | 4,997,471 | 5,022,848 | -42.30 | 85.83 | 0.4437 | 38.08 | 394.60 | 68.00 | (105.28) | -37.28 | 357.31 | |
| 2013 | | | 5,300,868 | 5,327,146 | -43.80 | 43.80 | 0.4091 | 17.92 | 412.51 | 70.00 | (105.28) | -35.28 | 377.23 | |
| 2014 | | | 5,612,784 | 5,641,242 | -47.43 | 47.43 | 0.3772 | 17.89 | 430.40 | 74.00 | (105.28) | -31.28 | 399.12 | |
| 2015 | | | 5,970,733 | 5,997,461 | -44.55 | 44.55 | 0.3477 | 15.49 | 445.89 | 76.00 | (105.28) | -29.28 | 416.61 | |
| 2016 | | | 6,341,677 | 6,368,836 | -45.26 | 45.26 | 0.3206 | 14.51 | 460.40 | 76.00 | (105.28) | -29.28 | 431.12 | |
| 2017 | | | 7,023,105 | 7,048,751 | -42.74 | 42.74 | 0.2956 | 12.63 | 473.04 | 80.00 | (105.28) | -25.28 | 447.75 | |
| 2018 | | | 7,571,537 | 7,599,524 | -46.64 | 46.64 | 0.2725 | 12.71 | 485.75 | 80.00 | (105.28) | -25.28 | 460.46 | |
| 2019 | | | 8,247,366 | 8,275,695 | -47.22 | 47.22 | 0.2512 | 11.86 | 497.61 | 82.00 | (105.28) | -23.28 | 474.33 | |
| 2020 | | | 8,859,275 | 8,886,361 | -45.14 | 45.14 | 0.2316 | 10.46 | 508.07 | 82.00 | (105.28) | -23.28 | 484.78 | |
| 2021 | | | 9,707,975 | 9,736,922 | -48.24 | 48.24 | 0.2135 | 10.30 | 518.37 | 82.00 | (105.28) | -23.28 | 495.09 | |
| 2022 | | | 10,449,507 | 10,478,927 | -49.03 | 49.03 | 0.1969 | 9.65 | 528.02 | 82.00 | (105.28) | -23.28 | 504.74 | |

| HR @ max (MBTU/MWh) 6.783 | | |
|---------------------------|----------------|----------------|
| Fuel Volatility | N | Dispatch Price |
| VOM (\$/MWh) | Fuel (\$/MBTU) | (\$/MWh) |
| 3.50 | 2.31 | 19.15 |
| 3.55 | 2.31 | 19.21 |
| 3.64 | 2.31 | 19.30 |
| 3.73 | 2.49 | 20.63 |
| 3.82 | 2.65 | 21.78 |
| 3.92 | 2.81 | 23.01 |
| 4.02 | 2.99 | 24.31 |
| 4.12 | 3.02 | 24.61 |
| 4.22 | 3.05 | 24.87 |
| 4.32 | 3.12 | 25.48 |
| 4.43 | 3.20 | 26.11 |

Capital Cost was supplied in \$/kW-month -
 The Proposal supplied monthly unit ratings with maximum summer rating of 500 MW;
 We multiplied the monthly ratings by the monthly capital cost and then divided by the maximum summer rating

Year 2002 capital cost is for 7 months
 Year 2012 capital cost is for 5 months

We used the heat rates supplied by Respondent B:
 Avg. Heat Rate @ Max 6,783
 Avg. Heat Rate @ Min 8,021

No maintenance schedule supplied -

| | | |
|-----------------------|-----|--|
| Availability | 95% | (Supplied value) |
| Forced Outage Rate | 2% | (Supplied value) |
| Scheduled Maintenance | 3% | 11 days in April; 3 weeks every sixth year |

Added Fixed Fuel Transportation Charge \$15,768,000 per year

006

| Respondent B CC (20 Year Pricing) | | | | | | | | | | | | | | |
|-----------------------------------|---------------------------|-------------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------------|------------|-----------------------------------|--|---|-------------------------------------|---|--|--|
| Proposal Size (MW) | 500 | | Base Case Size (MW) | | 600 | | Disc. Rate | | 8.47% | | | | | |
| Year | Capacity Costs (\$/kW-Yr) | Fixed Fuel Transp. (\$/kW-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Fixed Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen. Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) | |
| | | | | | | | | 576.60 | | | | | 553.31 | |
| 2002 | 33.07 | 18.40 | 2,887,357 | 2,867,015 | 33.90 | 17.57 | 1 | 17.57 | 17.57 | 10.00 | (15.57) | -5.57 | 11.99 | |
| 2003 | 58.23 | 31.54 | 3,059,636 | 3,037,555 | 36.80 | 52.97 | 0.9220 | 48.84 | 66.40 | 20.00 | (30.27) | -10.27 | 56.13 | |
| 2004 | 59.69 | 31.54 | 3,234,907 | 3,211,504 | 39.00 | 52.22 | 0.8500 | 44.39 | 110.79 | 28.00 | (44.71) | -16.71 | 94.08 | |
| 2005 | 61.18 | 31.54 | 3,542,591 | 3,521,253 | 35.56 | 57.16 | 0.7837 | 44.79 | 155.58 | 34.00 | (58.55) | -24.55 | 131.04 | |
| 2006 | 62.71 | 31.54 | 3,736,644 | 3,719,138 | 29.18 | 65.07 | 0.7225 | 47.01 | 202.60 | 42.00 | (71.75) | -29.75 | 172.84 | |
| 2007 | 64.28 | 31.54 | 3,997,015 | 3,973,252 | 39.60 | 56.21 | 0.6661 | 37.44 | 240.04 | 48.00 | (83.16) | -35.16 | 204.88 | |
| 2008 | 65.89 | 31.54 | 4,242,135 | 4,215,968 | 43.61 | 53.81 | 0.6141 | 33.05 | 273.09 | 52.00 | (92.62) | -40.62 | 232.47 | |
| 2009 | 67.53 | 31.54 | 4,498,493 | 4,469,994 | 47.50 | 51.57 | 0.5662 | 29.20 | 302.29 | 58.00 | (99.24) | -41.24 | 261.05 | |
| 2010 | 69.22 | 31.54 | 4,520,869 | 4,491,796 | 48.46 | 52.30 | 0.5220 | 27.30 | 329.59 | 60.00 | (103.36) | -43.36 | 286.23 | |
| 2011 | 70.95 | 31.54 | 4,702,102 | 4,674,080 | 46.70 | 55.79 | 0.4813 | 26.85 | 356.44 | 64.00 | (105.28) | -41.28 | 315.16 | |
| 2012 | 72.74 | 31.54 | 4,997,471 | 4,969,047 | 47.37 | 56.90 | 0.4437 | 25.25 | 381.69 | 68.00 | (105.28) | -37.28 | 344.41 | |
| 2013 | 74.59 | 31.54 | 5,300,868 | 5,271,879 | 48.31 | 57.81 | 0.4091 | 23.65 | 405.34 | 70.00 | (105.28) | -35.28 | 370.05 | |
| 2014 | 76.46 | 31.54 | 5,612,784 | 5,586,273 | 44.19 | 63.81 | 0.3772 | 24.07 | 429.40 | 74.00 | (105.28) | -31.28 | 398.12 | |
| 2015 | 78.33 | 31.54 | 5,970,733 | 5,944,188 | 44.24 | 65.62 | 0.3477 | 22.82 | 452.22 | 76.00 | (105.28) | -29.28 | 422.94 | |
| 2016 | 80.27 | 31.54 | 6,341,677 | 6,312,864 | 48.02 | 63.79 | 0.3206 | 20.45 | 472.67 | 76.00 | (105.28) | -29.28 | 443.39 | |
| 2017 | 82.27 | 31.54 | 7,023,105 | 6,991,177 | 53.21 | 60.59 | 0.2956 | 17.91 | 490.58 | 80.00 | (105.28) | -25.28 | 465.30 | |
| 2018 | 84.34 | 31.54 | 7,571,537 | 7,539,560 | 53.30 | 62.58 | 0.2725 | 17.05 | 507.63 | 80.00 | (105.28) | -25.28 | 482.35 | |
| 2019 | 86.46 | 31.54 | 8,247,366 | 8,217,585 | 49.63 | 68.36 | 0.2512 | 17.17 | 524.81 | 82.00 | (105.28) | -23.28 | 501.53 | |
| 2020 | 88.58 | 31.54 | 8,859,275 | 8,827,746 | 52.55 | 67.57 | 0.2316 | 15.65 | 540.46 | 82.00 | (105.28) | -23.28 | 517.18 | |
| 2021 | 90.78 | 31.54 | 9,707,975 | 9,676,288 | 52.81 | 69.50 | 0.2135 | 14.84 | 555.30 | 82.00 | (105.28) | -23.28 | 532.02 | |
| 2022 | 38.88 | 13.14 | 10,449,507 | 10,483,187 | -56.13 | 108.16 | 0.1969 | 21.29 | 576.60 | 82.00 | (105.28) | -23.28 | 553.31 | |

| HR @ max (MBTU/MWh) | 6.783 | |
|------------------------------|------------------|-------------------------|
| Fuel Volatility VOM (\$/MWh) | N Fuel (\$/MBTU) | Dispatch Price (\$/MWh) |
| 3.50 | 2.31 | 19.15 |
| 3.55 | 2.31 | 19.21 |
| 3.64 | 2.31 | 19.30 |
| 3.73 | 2.49 | 20.63 |
| 3.82 | 2.65 | 21.78 |
| 3.92 | 2.81 | 23.01 |
| 4.02 | 2.99 | 24.31 |
| 4.12 | 3.02 | 24.61 |
| 4.22 | 3.05 | 24.87 |
| 4.32 | 3.12 | 25.48 |
| 4.43 | 3.20 | 26.11 |
| 4.54 | 3.27 | 26.74 |
| 4.66 | 3.35 | 27.40 |
| 4.77 | 3.43 | 28.07 |
| 4.90 | 3.51 | 28.72 |
| 5.02 | 3.77 | 30.63 |
| 5.15 | 4.06 | 32.67 |
| 5.28 | 4.36 | 34.84 |
| 5.41 | 4.51 | 36.02 |
| 5.54 | 4.67 | 37.23 |
| 5.60 | 4.81 | 38.24 |

Capital Cost was supplied in \$/kW-month -

The Proposal supplied monthly unit ratings with maximum summer rating of 500 MW;
We multiplied the monthly ratings by the monthly capital cost and then divided by the maximum summer rating

Year 2002 capital cost is for 7 months
Year 2022 capital cost is for 5 months

We used heat rate supplied by Respondent B:
Avg. Heat Rate @ Max 6,783
Avg. Heat Rate @ Min 8,021

No maintenance schedule supplied -

Availability 95% (Supplied value)
Forced Outage Rate 2% (Supplied value)
Scheduled Maintenance 3% 11 days in April; 3 weeks every sixth year

Added Fixed Fuel Transportation Charge \$15,768,000 per year

CC

9

| Respondent B CT Proposal (7 Year Pricing) | | | | | | | | | | | | | |
|---|---------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------------|-----------|-----------------------------------|--|---|-------------------------------------|---|--|--|
| Proposal Size (MW) | Base Case | | Size (MW) | | Disc. Rate | | 8.47% | | | | | | |
| Year | Capacity Costs (\$/kW-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Fixed Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen. Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) | |
| | | | | | | | 467.84 | | | | | 539.17 | |
| 2002 | 27.73 | 2,887,357 | 2,887,940 | -0.97 | 28.71 | 1 | 28.71 | 28.71 | 10.00 | (1.65) | 8.35 | 37.06 | |
| 2003 | 48.72 | 3,059,636 | 3,060,898 | -2.10 | 50.83 | 0.9220 | 46.86 | 75.57 | 20.00 | (3.19) | 16.81 | 92.37 | |
| 2004 | 49.60 | 3,234,907 | 3,234,483 | 0.71 | 48.90 | 0.8500 | 41.56 | 117.13 | 28.00 | (4.67) | 23.33 | 140.46 | |
| 2005 | 48.51 | 3,542,591 | 3,541,644 | 1.58 | 46.94 | 0.7837 | 36.78 | 153.91 | 34.00 | (6.08) | 27.92 | 181.83 | |
| 2006 | 51.35 | 3,736,644 | 3,735,788 | 1.43 | 49.93 | 0.7225 | 36.07 | 189.98 | 42.00 | (7.38) | 34.62 | 224.61 | |
| 2007 | 52.23 | 3,997,015 | 3,994,674 | 3.90 | 48.33 | 0.6661 | 32.19 | 222.18 | 48.00 | (8.48) | 39.52 | 261.70 | |
| 2008 | 53.11 | 4,242,135 | 4,240,166 | 3.28 | 49.83 | 0.6141 | 30.60 | 252.78 | 52.00 | (9.40) | 42.60 | 295.37 | |
| 2009 | 22.72 | 4,498,493 | 4,523,451 | -41.60 | 64.32 | 0.5662 | 36.42 | 289.19 | 58.00 | (10.06) | 47.94 | 337.13 | |
| 2010 | | 4,520,869 | 4,545,000 | -40.22 | 40.22 | 0.5220 | 20.99 | 310.19 | 60.00 | (10.48) | 49.52 | 359.71 | |
| 2011 | | 4,702,102 | 4,726,602 | -40.83 | 40.83 | 0.4813 | 19.65 | 329.84 | 64.00 | (10.67) | 53.33 | 383.17 | |
| 2012 | | 4,997,471 | 5,021,133 | -39.44 | 39.44 | 0.4437 | 17.50 | 347.34 | 68.00 | (10.67) | 57.33 | 404.67 | |
| 2013 | | 5,300,868 | 5,324,487 | -39.37 | 39.37 | 0.4091 | 16.10 | 363.44 | 70.00 | (10.67) | 59.33 | 422.77 | |
| 2014 | | 5,612,784 | 5,638,583 | -43.00 | 43.00 | 0.3772 | 16.22 | 379.66 | 74.00 | (10.67) | 63.33 | 442.99 | |
| 2015 | | 5,970,733 | 5,994,803 | -40.12 | 40.12 | 0.3477 | 13.95 | 393.61 | 76.00 | (10.67) | 65.33 | 458.94 | |
| 2016 | | 6,341,677 | 6,366,177 | -40.83 | 40.83 | 0.3206 | 13.09 | 406.70 | 76.00 | (10.67) | 65.33 | 472.03 | |
| 2017 | | 7,023,105 | 7,046,092 | -38.31 | 38.31 | 0.2956 | 11.32 | 418.02 | 80.00 | (10.67) | 69.33 | 487.35 | |
| 2018 | | 7,571,537 | 7,596,865 | -42.21 | 42.21 | 0.2725 | 11.50 | 429.53 | 80.00 | (10.67) | 69.33 | 498.85 | |
| 2019 | | 8,247,366 | 8,273,036 | -42.78 | 42.78 | 0.2512 | 10.75 | 440.28 | 82.00 | (10.67) | 71.33 | 511.60 | |
| 2020 | | 8,859,275 | 8,883,702 | -40.71 | 40.71 | 0.2316 | 9.43 | 449.71 | 82.00 | (10.67) | 71.33 | 521.03 | |
| 2021 | | 9,707,975 | 9,734,263 | -43.81 | 43.81 | 0.2135 | 9.36 | 459.06 | 82.00 | (10.67) | 71.33 | 530.39 | |
| 2022 | | 10,449,507 | 10,476,268 | -44.60 | 44.60 | 0.1969 | 8.78 | 467.84 | 82.00 | (10.67) | 71.33 | 539.17 | |

| | | |
|---------------------|----------------|-------------------------|
| HR @ max (MBTU/MWh) | 10.410 | |
| Fuel Volatility | Y | |
| VOM (\$/MWh) | Fuel (\$/MBTU) | Dispatch Price (\$/MWh) |
| 2.50 | 3.32 | 37.10 |
| 2.52 | 3.35 | 37.43 |
| 2.57 | 3.38 | 37.80 |
| 2.61 | 3.57 | 39.74 |
| 2.66 | 3.72 | 41.42 |
| 2.71 | 3.89 | 43.20 |
| 2.75 | 4.07 | 45.08 |
| 2.77 | 4.13 | 45.71 |

Capital Cost was supplied in \$/kW-month -

The Proposal supplied monthly unit ratings with maximum summer rating of 500 MW;
We multiplied the monthly ratings by the monthly capital cost and then divided by the maximum summer rating

Year 2002 capital cost is for 7 months

Year 2009 capital cost is for 5 months

Heat Rate supplied by Respondent B

Avg. Heat Rate @ Max 10,410

Avg. Heat Rate @ Min 18,610

No maintenance schedule supplied -

Availability 95% (Supplied value)

Forced Outage Rate 2% (Supplied value)

Scheduled Maintenance 3% 11 days in April; 3 weeks every sixth year

| Respondent B CT Proposal (10 Year Pricing) | | | | | | | | | | | | | | |
|--|---------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------------|-----------|----------------------------------|--|---|-------------------------------------|------------------------------------|--|--|--|
| Proposal Size (MW) | Base Case | | Disc. Rate | | | | | | | | | | | |
| | 486 | Size (MW) | 600 | 8.47% | | | | | | | | | | |
| Year | Capacity Costs (\$/kW-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Fixed Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen.Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) | | |
| | | | | | | | 455.76 | | | | | 527.09 | | |
| 2002 | 25.20 | 2,887,357 | 2,887,804 | -0.74 | 25.94 | 1 | 25.94 | 25.94 | 10.00 | (1.65) | 8.35 | 34.29 | | |
| 2003 | 44.25 | 3,059,636 | 3,060,813 | -1.96 | 46.21 | 0.9220 | 42.60 | 68.54 | 20.00 | (3.19) | 16.81 | 85.35 | | |
| 2004 | 45.02 | 3,234,907 | 3,234,378 | 0.88 | 44.14 | 0.8500 | 37.52 | 106.06 | 28.00 | (4.67) | 23.33 | 129.39 | | |
| 2005 | 45.81 | 3,542,591 | 3,541,517 | 1.79 | 44.02 | 0.7837 | 34.50 | 140.56 | 34.00 | (6.08) | 27.92 | 168.48 | | |
| 2006 | 46.61 | 3,736,644 | 3,735,679 | 1.61 | 45.00 | 0.7225 | 32.51 | 173.07 | 42.00 | (7.38) | 34.62 | 207.69 | | |
| 2007 | 47.43 | 3,997,015 | 3,994,483 | 4.22 | 43.21 | 0.6661 | 28.78 | 201.85 | 48.00 | (8.48) | 39.52 | 241.37 | | |
| 2008 | 48.26 | 4,242,135 | 4,239,975 | 3.60 | 44.66 | 0.6141 | 27.43 | 229.28 | 52.00 | (9.40) | 42.60 | 271.87 | | |
| 2009 | 49.10 | 4,498,493 | 4,494,843 | 6.08 | 43.02 | 0.5662 | 24.36 | 253.64 | 58.00 | (10.06) | 47.94 | 301.57 | | |
| 2010 | 49.96 | 4,520,869 | 4,517,965 | 4.84 | 45.12 | 0.5220 | 23.55 | 277.19 | 60.00 | (10.48) | 49.52 | 326.71 | | |
| 2011 | 50.83 | 4,702,102 | 4,697,553 | 7.58 | 43.25 | 0.4813 | 20.82 | 298.00 | 64.00 | (10.67) | 53.33 | 351.33 | | |
| 2012 | 21.76 | 4,997,471 | 5,022,858 | -42.31 | 64.07 | 0.4437 | 28.43 | 326.43 | 68.00 | (10.67) | 57.33 | 383.76 | | |
| 2013 | | 5,300,868 | 5,326,303 | -42.39 | 42.39 | 0.4091 | 17.34 | 343.77 | 70.00 | (10.67) | 59.33 | 403.10 | | |
| 2014 | | 5,612,784 | 5,640,400 | -46.03 | 46.03 | 0.3772 | 17.36 | 361.13 | 74.00 | (10.67) | 63.33 | 424.46 | | |
| 2015 | | 5,970,733 | 5,996,619 | -43.14 | 43.14 | 0.3477 | 15.00 | 376.14 | 76.00 | (10.67) | 65.33 | 441.46 | | |
| 2016 | | 6,341,677 | 6,367,993 | -43.86 | 43.86 | 0.3206 | 14.06 | 390.20 | 76.00 | (10.67) | 65.33 | 455.52 | | |
| 2017 | | 7,023,105 | 7,047,908 | -41.34 | 41.34 | 0.2956 | 12.22 | 402.42 | 80.00 | (10.67) | 69.33 | 471.74 | | |
| 2018 | | 7,571,537 | 7,598,682 | -45.24 | 45.24 | 0.2725 | 12.33 | 414.74 | 80.00 | (10.67) | 69.33 | 484.07 | | |
| 2019 | | 8,247,366 | 8,274,852 | -45.81 | 45.81 | 0.2512 | 11.51 | 426.25 | 82.00 | (10.67) | 71.33 | 497.58 | | |
| 2020 | | 8,859,275 | 8,885,519 | -43.74 | 43.74 | 0.2316 | 10.13 | 436.38 | 82.00 | (10.67) | 71.33 | 507.71 | | |
| 2021 | | 9,707,975 | 9,736,080 | -46.84 | 46.84 | 0.2135 | 10.00 | 446.39 | 82.00 | (10.67) | 71.33 | 517.71 | | |
| 2022 | | 10,449,507 | 10,478,084 | -47.63 | 47.63 | 0.1969 | 9.38 | 455.76 | 82.00 | (10.67) | 71.33 | 527.09 | | |

| HR @ max (MBTU/MWh) | 10.410 | |
|---------------------|----------------|----------------|
| Fuel Volatility | Y | Dispatch Price |
| VOM (\$/MWh) | Fuel (\$/MBTU) | (\$/MWh) |
| 2.00 | 3.32 | 36.60 |
| 2.02 | 3.35 | 36.93 |
| 2.06 | 3.38 | 37.29 |
| 2.09 | 3.57 | 39.22 |
| 2.13 | 3.72 | 40.89 |
| 2.16 | 3.89 | 42.66 |
| 2.20 | 4.07 | 44.53 |
| 2.24 | 4.13 | 45.19 |
| 2.28 | 4.20 | 45.98 |
| 2.32 | 4.31 | 47.17 |
| 2.36 | 4.42 | 48.39 |

Capital Cost was supplied in \$/kW-month -

The Proposal supplied monthly unit ratings with maximum summer rating of 500 MW;
We multiplied the monthly ratings by the monthly capital cost and then divided by the maximum summer rating

Year 2002 capital cost is for 7 months

Year 2012 capital cost is for 5 months

No specific heat rate information was supplied -

Avg. Heat Rate @ Max 10,410
Avg. Heat Rate @ Min 18,610

No maintenance schedule supplied -

Availability 95% (Supplied value)
Forced Outage Rate 2% (Supplied value)
Scheduled Maintenance 3% 11 days in April; 3 weeks every sixth year

| Respondent B CT Proposal (20 Year Pricing) | | | | | | | | | | | | | |
|--|---------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------------|------------|----------------------------------|--|---|-------------------------------------|---|--|--|
| Proposal Size (MW) | 486 | Base Case Size (MW) | 600 | | | Disc. Rate | 8.47% | | | | | | |
| Year | Capacity Costs (\$/kw-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Fixed Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen.Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) | |
| | | | | | | | 424.18 | | | | | 495.51 | |
| 2002 | 25.20 | 2,887,357 | 2,887,804 | -0.74 | 25.94 | 1 | 25.94 | 25.94 | 10.00 | (1.65) | 8.35 | 34.29 | |
| 2003 | 44.25 | 3,059,636 | 3,060,814 | -1.96 | 46.21 | 0.9220 | 42.60 | 68.54 | 20.00 | (3.19) | 16.81 | 85.35 | |
| 2004 | 45.02 | 3,234,907 | 3,234,378 | 0.88 | 44.14 | 0.8500 | 37.52 | 106.06 | 28.00 | (4.67) | 23.33 | 129.39 | |
| 2005 | 45.85 | 3,542,591 | 3,541,518 | 1.79 | 44.06 | 0.7837 | 34.53 | 140.59 | 34.00 | (6.08) | 27.92 | 168.52 | |
| 2006 | 46.64 | 3,736,644 | 3,735,679 | 1.61 | 45.03 | 0.7225 | 32.54 | 173.13 | 42.00 | (7.38) | 34.62 | 207.75 | |
| 2007 | 47.47 | 3,997,015 | 3,994,481 | 4.22 | 43.24 | 0.6661 | 28.81 | 201.93 | 48.00 | (8.48) | 39.52 | 241.45 | |
| 2008 | 48.29 | 4,242,135 | 4,239,973 | 3.60 | 44.68 | 0.6141 | 27.44 | 229.37 | 52.00 | (9.40) | 42.60 | 271.97 | |
| 2009 | 49.10 | 4,498,493 | 4,494,844 | 6.08 | 43.02 | 0.5662 | 24.36 | 253.73 | 58.00 | (10.06) | 47.94 | 301.67 | |
| 2010 | 49.96 | 4,520,869 | 4,517,966 | 4.84 | 45.12 | 0.5220 | 23.55 | 277.29 | 60.00 | (10.48) | 49.52 | 326.81 | |
| 2011 | 50.83 | 4,702,102 | 4,697,555 | 7.58 | 43.26 | 0.4813 | 20.82 | 298.10 | 64.00 | (10.67) | 53.33 | 351.43 | |
| 2012 | 51.72 | 4,997,471 | 4,990,447 | 11.71 | 40.02 | 0.4437 | 17.76 | 315.86 | 68.00 | (10.67) | 57.33 | 373.19 | |
| 2013 | 52.68 | 5,300,868 | 5,289,525 | 18.90 | 33.77 | 0.4091 | 13.82 | 329.68 | 70.00 | (10.67) | 59.33 | 389.00 | |
| 2014 | 53.61 | 5,612,784 | 5,602,549 | 17.06 | 36.55 | 0.3772 | 13.79 | 343.46 | 74.00 | (10.67) | 63.33 | 406.79 | |
| 2015 | 54.56 | 5,970,733 | 5,957,433 | 22.17 | 32.39 | 0.3477 | 11.26 | 354.73 | 76.00 | (10.67) | 65.33 | 420.05 | |
| 2016 | 55.49 | 6,341,677 | 6,328,921 | 21.26 | 34.23 | 0.3206 | 10.97 | 365.70 | 76.00 | (10.67) | 65.33 | 431.03 | |
| 2017 | 56.44 | 7,023,105 | 7,009,367 | 22.90 | 33.54 | 0.2956 | 9.91 | 375.61 | 80.00 | (10.67) | 69.33 | 444.94 | |
| 2018 | 57.44 | 7,571,537 | 7,557,584 | 23.26 | 34.18 | 0.2725 | 9.31 | 384.93 | 80.00 | (10.67) | 69.33 | 454.25 | |
| 2019 | 58.44 | 8,247,366 | 8,232,743 | 24.37 | 34.07 | 0.2512 | 8.56 | 393.49 | 82.00 | (10.67) | 71.33 | 464.81 | |
| 2020 | 59.44 | 8,859,275 | 8,842,715 | 27.60 | 31.84 | 0.2316 | 7.38 | 400.86 | 82.00 | (10.67) | 71.33 | 472.19 | |
| 2021 | 60.52 | 9,707,975 | 9,691,540 | 27.39 | 33.12 | 0.2135 | 7.07 | 407.93 | 82.00 | (10.67) | 71.33 | 479.26 | |
| 2022 | 25.91 | 10,449,507 | 10,483,469 | -56.60 | 82.52 | 0.1969 | 16.25 | 424.18 | 82.00 | (10.67) | 71.33 | 495.51 | |

| HR @ max (MBTU/MWh) | 10.410 | | |
|---------------------|----------------|----------------|--|
| Fuel Volatility | Y | Dispatch Price | |
| VOM (\$/MWh) | Fuel (\$/MBTU) | (\$/MWh) | |
| 2.00 | 3.32 | 36.60 | |
| 2.02 | 3.35 | 36.93 | |
| 2.06 | 3.38 | 37.29 | |
| 2.09 | 3.57 | 39.22 | |
| 2.13 | 3.72 | 40.89 | |
| 2.16 | 3.89 | 42.66 | |
| 2.20 | 4.07 | 44.53 | |
| 2.24 | 4.13 | 45.19 | |
| 2.28 | 4.20 | 45.98 | |
| 2.32 | 4.31 | 47.17 | |
| 2.36 | 4.42 | 48.39 | |
| 2.40 | 4.54 | 49.66 | |
| 2.44 | 4.66 | 50.96 | |
| 2.49 | 4.79 | 52.32 | |
| 2.53 | 4.92 | 53.70 | |
| 2.57 | 5.19 | 56.58 | |
| 2.62 | 5.48 | 59.66 | |
| 2.67 | 5.79 | 62.93 | |
| 2.71 | 6.00 | 65.17 | |
| 2.76 | 6.22 | 67.51 | |
| 2.78 | 6.43 | 69.69 | |

Capital Cost was supplied in \$/kW-month -

The Proposal supplied monthly unit ratings with maximum summer rating of 500 MW;
We multiplied the monthly ratings by the monthly capital cost and then divided by the maximum summer rating

Year 2002 capital cost is for 7 months
Year 2022 capital cost is for 5 months

No specific heat rate information was supplied -
Avg. Heat Rate @ Max 10,410
Avg. Heat Rate @ Min 18,610

No maintenance schedule supplied -
Availability 95% (Supplied value)
Forced Outage Rate 2% (Supplied value)
Scheduled Maintenance 3% 11 days in April; 3 weeks every sixth year

| Respondent C | | | | | | | | | | | | | | | |
|--------------------|---------------------------|----------------------|-------------------------|-----------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------|-----------|-----------------------------------|--|---|-------------------------------------|---|--|
| Proposal Size (MW) | Base Case Size (MW) | | | | Disc. Rate | | | | | | | | | | |
| 532 | 600 | | | | 8.47% | | | | | | | | | | |
| Year | Capacity Costs (\$/kw-Yr) | Fixed O&M (\$/kw-Yr) | Fuel Reserv. (\$/kw-Yr) | Total Fixed Cost (\$/kw-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen. Cost (\$/kW-Yr) | Generation Total Cost Accum. PV (\$/kW-Yr) | Transm. Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Gen. & Transm. Total Cost Accum. PV (\$/kW-Yr) |
| | | | | | | | | | | 532.48 | | | | | 511.41 |
| 2002 | 37.08 | 4.57 | 19.14 | 60.79 | 2,887,357 | 2,866,864 | 34.16 | 26.63 | 1.0000 | 26.63 | 26.63 | 30.45 | (27.86) | 2.59 | 29.23 |
| 2003 | 63.56 | 8.07 | 32.81 | 104.44 | 3,059,636 | 3,038,049 | 35.98 | 68.47 | 0.9220 | 63.12 | 89.75 | 57.71 | (54.09) | 3.61 | 93.37 |
| 2004 | 63.56 | 8.31 | 32.81 | 104.69 | 3,234,907 | 3,212,409 | 37.50 | 67.19 | 0.8500 | 57.11 | 146.87 | 82.52 | (80.20) | 2.32 | 149.18 |
| 2005 | 63.56 | 8.56 | 32.81 | 104.93 | 3,542,591 | 3,521,701 | 34.82 | 70.12 | 0.7837 | 54.95 | 201.82 | 105.26 | (105.33) | -0.07 | 201.75 |
| 2006 | 63.56 | 8.82 | 32.81 | 105.19 | 3,736,644 | 3,718,780 | 29.81 | 75.38 | 0.7225 | 54.47 | 256.28 | 127.44 | (129.31) | -1.87 | 254.42 |
| 2007 | 26.49 | 3.79 | 13.67 | 43.94 | 3,997,015 | 4,018,482 | -35.75 | 79.69 | 0.6661 | 53.08 | 309.36 | 148.31 | (150.07) | -1.76 | 307.60 |
| 2008 | | | | | 4,242,135 | 4,266,718 | -40.97 | 40.97 | 0.6141 | 25.16 | 334.52 | 164.29 | (167.27) | -2.98 | 331.54 |
| 2009 | | | | | 4,498,493 | 4,523,326 | -41.39 | 41.39 | 0.5662 | 23.43 | 357.96 | 168.23 | (179.29) | -11.05 | 346.90 |
| 2010 | | | | | 4,520,869 | 4,544,432 | -39.27 | 39.27 | 0.5220 | 20.50 | 378.46 | 166.17 | (186.76) | -20.59 | 357.87 |
| 2011 | | | | | 4,702,102 | 4,726,035 | -39.89 | 39.89 | 0.4813 | 19.20 | 397.66 | 167.67 | (190.24) | -22.57 | 375.08 |
| 2012 | | | | | 4,997,471 | 5,020,566 | -38.49 | 38.49 | 0.4437 | 17.08 | 414.73 | 169.17 | (190.24) | -21.07 | 393.67 |
| 2013 | | | | | 5,300,868 | 5,323,921 | -38.42 | 38.42 | 0.4091 | 15.72 | 430.45 | 168.98 | (190.24) | -21.26 | 409.20 |
| 2014 | | | | | 5,612,784 | 5,638,016 | -42.05 | 42.05 | 0.3772 | 15.86 | 446.31 | 171.05 | (190.24) | -19.19 | 427.12 |
| 2015 | | | | | 5,970,733 | 5,994,235 | -39.17 | 39.17 | 0.3477 | 13.62 | 459.93 | 169.92 | (190.24) | -20.32 | 439.62 |
| 2016 | | | | | 6,341,677 | 6,365,610 | -39.89 | 39.89 | 0.3206 | 12.79 | 472.72 | 169.55 | (190.24) | -20.69 | 452.03 |
| 2017 | | | | | 7,023,105 | 7,045,525 | -37.37 | 37.37 | 0.2956 | 11.04 | 483.77 | 171.62 | (190.24) | -18.63 | 465.14 |
| 2018 | | | | | 7,571,537 | 7,596,298 | -41.27 | 41.27 | 0.2725 | 11.25 | 495.01 | 169.17 | (190.24) | -21.07 | 473.94 |
| 2019 | | | | | 8,247,366 | 8,272,469 | -41.84 | 41.84 | 0.2512 | 10.51 | 505.52 | 169.55 | (190.24) | -20.69 | 484.83 |
| 2020 | | | | | 8,859,275 | 8,883,135 | -39.77 | 39.77 | 0.2316 | 9.21 | 514.73 | 171.05 | (190.24) | -19.19 | 495.54 |
| 2021 | | | | | 9,707,975 | 9,733,696 | -42.87 | 42.87 | 0.2135 | 9.15 | 523.89 | 169.92 | (190.24) | -20.32 | 503.57 |
| 2022 | | | | | 10,449,507 | 10,475,701 | -43.66 | 43.66 | 0.1969 | 8.60 | 532.48 | 169.17 | (190.24) | -21.07 | 511.41 |

| HR @ max (MBTU/MWh) | 7.054 | |
|---------------------|----------------|----------------|
| Fuel Volatility | Y | Dispatch Price |
| VOM (\$/MWh) | Fuel (\$/MBTU) | (\$/MWh) |
| 1.726 | 2.49 | 19.28 |
| 1.778 | 2.49 | 19.34 |
| 1.831 | 2.49 | 19.39 |
| 1.886 | 2.68 | 20.79 |
| 1.943 | 2.84 | 21.96 |
| 2.001 | 3.01 | 23.21 |

Capital Cost, Fixed O&M, and Fuel Fixed Costs were supplied in \$/kW-month -
 Year 2002 values were multiplied by 7
 Years 2003-2006 values were multiplied by 12
 Year 2007 values were multiplied by 5

Using the supplied heat rate table, we modeled the following:
 Maximum Capacity 600 MW
 Avg. Heat Rate @ Max 7,054
 Minimum Capacity 120 MW
 Avg. Heat Rate @ Min 7,078

| Respondent C with Fixed and Levelized Energy Price | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------|----------------------|-------------------------|-----------------------------|-----------------------------------|----------------------------------|---------------------------------------|-----------------------|-----------|----------------------------------|---------------------------------|-----------------------------------|-------------------------------------|---|---------------------------------|---------------------------------|---------------------|--------------------------|------------------|-------------------------|
| Proposal Size (MW) | Base Case | | | | Base Case Size (MW) | Energy | | | | Disc. Rate | Generation | | | Transm. | | | Gen. & Transm. | | | |
| 532 | | | | | 600 | | | | | 8.47% | | | | | | | | | | |
| Year | Capacity Costs (\$/kw-Yr) | Fixed O&M (\$/kw-Yr) | Fuel Reserv. (\$/kw-Yr) | Total Fixed Cost (\$/kw-Yr) | Base Case Utility Cost (000's \$) | Proposal Utility Cost (000's \$) | Energy Savings & Exp. Plan (\$/kW-Yr) | Total Cost (\$/kW-Yr) | PV Factor | NPV of Total Gen.Cost (\$/kW-Yr) | Total Cost Accum. PV (\$/kW-Yr) | Grid & Conn. Accum. PV (\$/kW-Yr) | Transm. Losses Accum. PV (\$/kW-Yr) | Transm. Total Cost Accum. PV (\$/kW-Yr) | Total Cost Accum. PV (\$/kW-Yr) | Total Cost Accum. PV (\$/kW-Yr) | HR @ max (MBTU/MWh) | Fuel Volatility (\$/MWh) | N Fuel (\$/MBTU) | Dispatch Price (\$/MWh) |
| 2002 | 37.08 | 4.57 | 19.14 | 60.79 | 2,887,357 | 2,880,888 | 10.78 | 50.01 | 1.0000 | 637.37 | 50.01 | 30.45 | (27.96) | 2.59 | 52.60 | | | | | \$31.46 |
| 2003 | 63.56 | 8.07 | 32.81 | 104.44 | 3,059,636 | 3,054,925 | 7.85 | 96.59 | 0.9220 | 89.05 | 139.06 | 57.71 | (54.09) | 3.61 | 142.67 | | | | | \$31.46 |
| 2004 | 63.56 | 8.31 | 32.81 | 104.69 | 3,234,907 | 3,229,040 | 9.78 | 94.91 | 0.8500 | 80.67 | 219.73 | 82.52 | (80.20) | 2.32 | 222.05 | | | | | \$31.46 |
| 2005 | 63.56 | 8.56 | 32.81 | 104.93 | 3,542,591 | 3,536,645 | 9.91 | 95.03 | 0.7837 | 74.47 | 294.20 | 105.26 | (105.33) | -0.07 | 294.13 | | | | | \$31.46 |
| 2006 | 63.56 | 8.82 | 32.81 | 105.19 | 3,736,644 | 3,729,600 | 11.74 | 93.45 | 0.7225 | 67.52 | 361.72 | 127.44 | (129.31) | -1.87 | 359.85 | | | | | \$31.46 |
| 2007 | 26.49 | 3.79 | 13.67 | 43.94 | 3,997,015 | 4,020,471 | -39.09 | 83.03 | 0.6661 | 55.31 | 417.03 | 148.31 | (150.07) | -1.76 | 415.26 | | | | | \$31.46 |
| 2008 | | | | | 4,242,135 | 4,266,417 | -40.47 | 40.47 | 0.6141 | 24.85 | 441.88 | 164.29 | (167.27) | -2.98 | 438.90 | | | | | |
| 2009 | | | | | 4,498,493 | 4,523,025 | -40.89 | 40.89 | 0.5662 | 23.15 | 465.03 | 168.23 | (179.29) | -11.05 | 453.98 | | | | | |
| 2010 | | | | | 4,520,869 | 4,544,131 | -38.77 | 38.77 | 0.5220 | 20.24 | 485.27 | 166.17 | (186.76) | -20.59 | 464.68 | | | | | |
| 2011 | | | | | 4,702,102 | 4,725,733 | -39.39 | 39.39 | 0.4813 | 18.96 | 504.23 | 167.67 | (190.24) | -22.57 | 481.65 | | | | | |
| 2012 | | | | | 4,997,471 | 5,020,264 | -37.99 | 37.99 | 0.4437 | 16.86 | 521.08 | 169.17 | (190.24) | -21.07 | 500.01 | | | | | |
| 2013 | | | | | 5,300,868 | 5,323,619 | -37.92 | 37.92 | 0.4091 | 15.51 | 536.59 | 168.98 | (190.24) | -21.26 | 515.34 | | | | | |
| 2014 | | | | | 5,612,784 | 5,637,715 | -41.55 | 41.55 | 0.3772 | 15.67 | 552.27 | 171.05 | (190.24) | -19.19 | 533.08 | | | | | |
| 2015 | | | | | 5,970,733 | 5,993,934 | -38.67 | 38.67 | 0.3477 | 13.45 | 565.71 | 169.92 | (190.24) | -20.32 | 545.40 | | | | | |
| 2016 | | | | | 6,341,677 | 6,365,308 | -39.38 | 39.38 | 0.3206 | 12.63 | 578.34 | 169.55 | (190.24) | -20.69 | 557.65 | | | | | |
| 2017 | | | | | 7,023,105 | 7,045,223 | -36.86 | 36.86 | 0.2956 | 10.90 | 589.23 | 171.62 | (190.24) | -18.63 | 570.61 | | | | | |
| 2018 | | | | | 7,571,537 | 7,595,997 | -40.77 | 40.77 | 0.2725 | 11.11 | 600.34 | 169.17 | (190.24) | -21.07 | 579.27 | | | | | |
| 2019 | | | | | 8,247,366 | 8,272,167 | -41.34 | 41.34 | 0.2512 | 10.38 | 610.73 | 169.55 | (190.24) | -20.69 | 590.03 | | | | | |
| 2020 | | | | | 8,859,275 | 8,882,834 | -39.26 | 39.26 | 0.2316 | 9.09 | 619.82 | 171.05 | (190.24) | -19.19 | 600.63 | | | | | |
| 2021 | | | | | 9,707,975 | 9,733,395 | -42.37 | 42.37 | 0.2135 | 9.05 | 628.67 | 169.92 | (190.24) | -20.32 | 608.55 | | | | | |
| 2022 | | | | | 10,449,507 | 10,475,399 | -43.15 | 43.15 | 0.1969 | 8.50 | 637.37 | 169.17 | (190.24) | -21.07 | 616.30 | | | | | |

| HR @ max (MBTU/MWh) | Fuel Volatility (\$/MWh) | N Fuel (\$/MBTU) | Dispatch Price (\$/MWh) |
|---------------------|--------------------------|------------------|-------------------------|
| | | | \$31.46 |
| | | | \$31.46 |
| | | | \$31.46 |
| | | | \$31.46 |
| | | | \$31.46 |

Capital Cost, Fixed O&M, and Fuel Fixed Costs were supplied in \$/kW-month

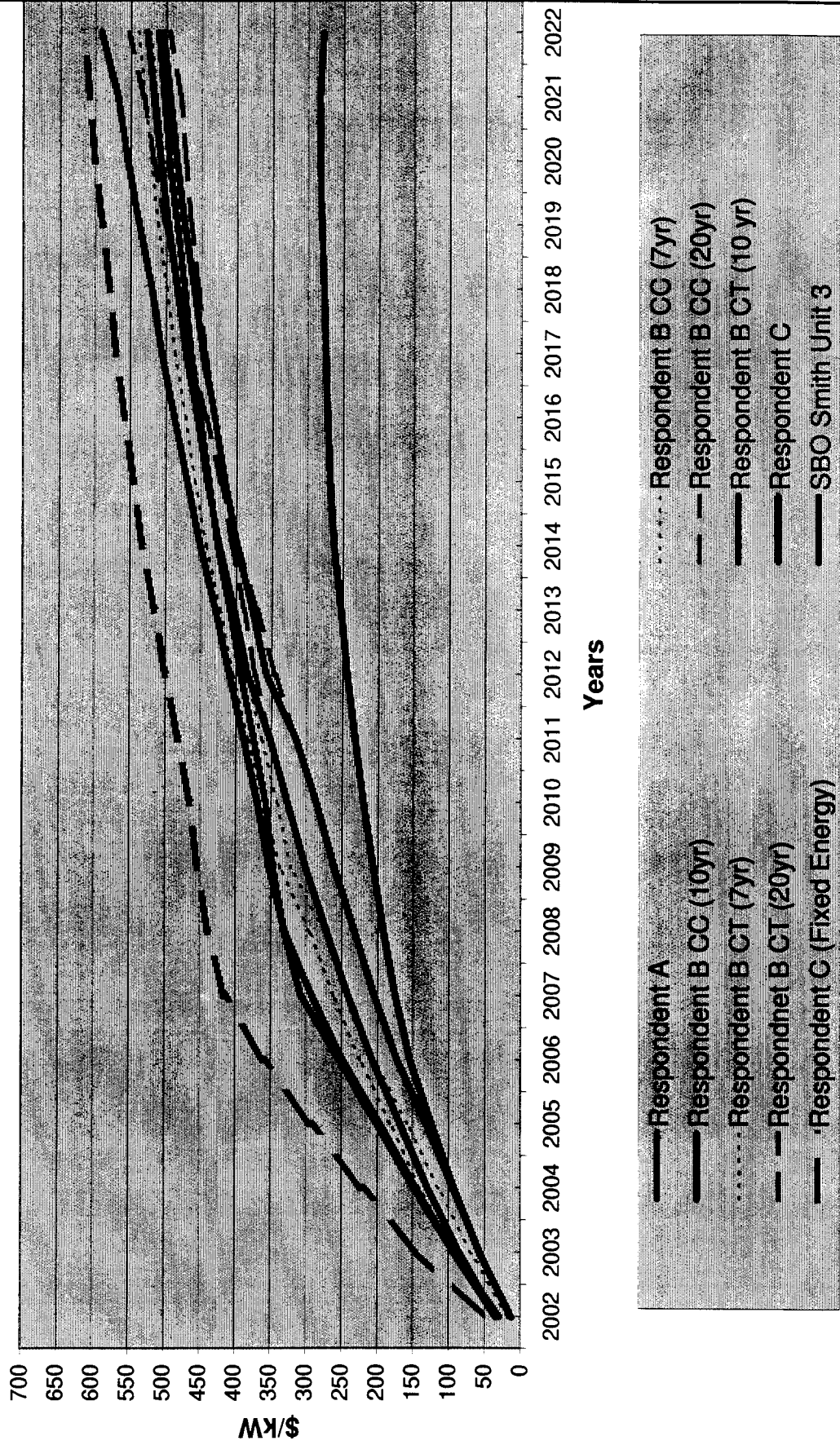
Year 2002 values were multiplied by 7

Years 2003-2006 values were multiplied by 12

Year 2007 values were multiplied by 5

012

Accumulated PV (2002\$) of Generation and Transmission Total Cost



**SOUTHERN ELECTRIC SYSTEM 1998 PROJECTIONS OF GENERIC NOMINAL NATURAL GAS PRICES
FOR USE IN THE 1999 FUEL BUDGET AND OTHER LONG-TERM STUDIES**

CONFIDENTIAL

Gulf Power Company

Plant Smith - Contract 532 MW Gas-fired Combined Cycle using a gas supplier bid to determine transportation costs

| Generation = | | 532,000 kw | | | | Pipeline Capacity = 86,567 MMBtu/day | | | | NOMINAL CENTS/MMBTU - 1.030 MMBTU/MCF | | | 50.00% | 75.00% | 100.00% |
|-----------------------|-------------|--------------------------|-------------|----------|--------------------------|--------------------------------------|--------------|-------------|-------------------------------|---------------------------------------|-------------|----------|-----------|-----------|-----------|
| Natural Gas Fuel Only | | | | | | Florida Gas Transmission | ANNUAL | PIPELINE | w/o Taxes | | | | L.F. | L.F. | L.F. |
| YEAR | Apr,May,Jun | Florida Gas Transmission | | | Florida Gas Transmission | VARIABLE | TRANSPORT | FACILITY | Marginal Delivered Gas Prices | | | | Total | Total | Total |
| | Sep, Oct | Jul,Aug | Nov,Feb,Mar | Dec, Jan | TRANSPORTATION | & STORAGE | CAPITAL | Apr,May,Jun | Sep, Oct | Jul,Aug | Nov,Feb,Mar | Dec, Jan | Gas | Gas | Gas |
| | | | | | SUMMER | WINTER | COST | COST | | | | | Delivered | Delivered | Delivered |
| | | | | | | | | | | | | | Price | Price | Price |
| 1995 | 159.80 | 140.50 | 153.67 | 188.00 | 5.16 | 5.49 | \$0 | \$0 | 164.96 | 145.66 | 159.16 | 193.49 | | | |
| 1996 | 214.20 | 242.50 | 258.00 | 347.00 | 6.71 | 8.57 | \$0 | \$0 | 220.91 | 249.21 | 266.57 | 355.57 | | | |
| 1997 | 231.00 | 211.00 | 261.33 | 325.50 | 5.73 | 6.86 | \$0 | \$0 | 236.73 | 216.73 | 268.19 | 332.36 | | | |
| 1998 | 196.00 | 205.00 | 208.50 | 226.07 | 5.29 | 5.63 | \$0 | \$0 | 201.29 | 210.29 | 214.12 | 231.70 | | | |
| 1999 | 212.60 | 212.60 | 212.60 | 212.60 | 4.38 | 4.38 | \$0 | \$0 | 216.98 | 216.98 | 216.98 | 216.98 | | | |
| 2000 | 212.60 | 212.60 | 212.60 | 212.60 | 4.38 | 4.38 | \$0 | \$0 | 216.98 | 216.98 | 216.98 | 216.98 | | | |
| 2001 | 212.60 | 212.60 | 212.60 | 212.60 | 4.38 | 4.38 | \$0 | \$0 | 216.98 | 216.98 | 216.98 | 216.98 | | | |
| 2002 | 212.60 | 212.60 | 212.60 | 212.60 | 4.38 | 4.38 | \$17,694,303 | \$0 | 216.98 | 216.98 | 216.98 | 216.98 | 328.98 | 291.64 | 272.98 |
| 2003 | 212.60 | 212.60 | 212.60 | 212.60 | 4.38 | 4.38 | \$17,694,303 | \$0 | 216.98 | 216.98 | 216.98 | 216.98 | 328.98 | 291.64 | 272.98 |
| 2004 | 212.60 | 212.60 | 212.60 | 212.60 | 4.38 | 4.38 | \$17,694,303 | \$0 | 216.98 | 216.98 | 216.98 | 216.98 | 328.98 | 291.64 | 272.98 |
| 2005 | 230.43 | 230.43 | 230.43 | 230.43 | 4.72 | 4.72 | \$17,694,303 | \$0 | 235.15 | 235.15 | 235.15 | 235.15 | 347.15 | 309.82 | 291.15 |
| 2006 | 245.60 | 245.60 | 245.60 | 245.60 | 5.01 | 5.01 | \$17,694,303 | \$0 | 250.61 | 250.61 | 250.61 | 250.61 | 362.61 | 325.28 | 306.61 |
| 2007 | 261.76 | 261.76 | 261.76 | 261.76 | 5.32 | 5.32 | \$17,694,303 | \$0 | 267.08 | 267.08 | 267.08 | 267.08 | 379.08 | 341.75 | 323.08 |
| 2008 | 278.97 | 278.97 | 278.97 | 278.97 | 5.65 | 5.65 | \$17,694,303 | \$0 | 284.62 | 284.62 | 284.62 | 284.62 | 396.62 | 359.28 | 340.62 |
| 2009 | 281.79 | 281.79 | 281.79 | 281.79 | 5.70 | 5.70 | \$17,694,303 | \$0 | 287.49 | 287.49 | 287.49 | 287.49 | 399.49 | 362.16 | 343.49 |
| 2010 | 284.13 | 284.13 | 284.13 | 284.13 | 5.76 | 5.76 | \$17,694,303 | \$0 | 289.89 | 289.89 | 289.89 | 289.89 | 401.89 | 364.56 | 345.89 |
| 2011 | 291.31 | 291.31 | 291.31 | 291.31 | 5.89 | 5.89 | \$17,694,303 | \$0 | 297.21 | 297.21 | 297.21 | 297.21 | 409.21 | 371.87 | 353.21 |
| 2012 | 298.67 | 298.67 | 298.67 | 298.67 | 6.03 | 6.03 | \$17,694,303 | \$0 | 304.70 | 304.70 | 304.70 | 304.70 | 416.70 | 379.37 | 360.70 |
| 2013 | 306.21 | 306.21 | 306.21 | 306.21 | 6.18 | 6.18 | \$17,694,303 | \$0 | 312.39 | 312.39 | 312.39 | 312.39 | 424.39 | 387.06 | 368.39 |
| 2014 | 313.94 | 313.94 | 313.94 | 313.94 | 6.33 | 6.33 | \$17,694,303 | \$0 | 320.27 | 320.27 | 320.27 | 320.27 | 432.27 | 394.93 | 376.27 |
| 2015 | 321.87 | 321.87 | 321.87 | 321.87 | 6.48 | 6.48 | \$17,694,303 | \$0 | 328.34 | 328.34 | 328.34 | 328.34 | 440.34 | 403.01 | 384.34 |
| 2016 | 329.49 | 329.49 | 329.49 | 329.49 | 6.63 | 6.63 | \$17,694,303 | \$0 | 336.12 | 336.12 | 336.12 | 336.12 | 448.12 | 410.79 | 392.12 |
| 2017 | 354.92 | 354.92 | 354.92 | 354.92 | 7.12 | 7.12 | \$17,694,303 | \$0 | 362.04 | 362.04 | 362.04 | 362.04 | 474.04 | 436.71 | 418.04 |
| 2018 | 382.30 | 382.30 | 382.30 | 382.30 | 7.64 | 7.64 | \$17,694,303 | \$0 | 389.94 | 389.94 | 389.94 | 389.94 | 501.94 | 464.61 | 445.94 |
| 2019 | 411.59 | 411.59 | 411.59 | 411.59 | 8.20 | 8.20 | \$17,694,303 | \$0 | 419.79 | 419.79 | 419.79 | 419.79 | 531.79 | 494.45 | 475.79 |
| 2020 | 426.51 | 426.51 | 426.51 | 426.51 | 8.48 | 8.48 | \$17,694,303 | \$0 | 435.00 | 435.00 | 435.00 | 435.00 | 547.00 | 509.66 | 491.00 |
| 2021 | 441.98 | 441.98 | 441.98 | 441.98 | 8.78 | 8.78 | \$17,694,303 | \$0 | 450.76 | 450.76 | 450.76 | 450.76 | 562.76 | 525.42 | 506.76 |

Notes: Summer months = April through October. Winter Months = November, December and March

Fixed costs must be added to marginal costs to determine total fuel costs.

Capital Cost of Pipeline Lateral not Included in Fuel Cost.

**SOUTHERN ELECTRIC SYSTEM 1998 PROJECTIONS OF GENERIC NOMINAL NATURAL GAS PRICES
FOR USE IN THE 1999 FUEL BUDGET AND OTHER LONG-TERM STUDIES**

CONFIDENTIAL

Gulf Power Company

**Polsky builds 213 MW, Gas-fired cogen, Santa Rosa - Pace, FL, Heat rate 7100
Same prices for 177 MW offer at International Paper**

Generation = kw = 213,000 Heat Rate = 7,100 btu/kw Transport Capacity Required = 36,295 MMBtu/day

| Natural Gas Fuel Only | | | | | NOMINAL CENTS/MMBTU - 1.030 MMBTU/MCF | | | | | | | |
|-----------------------|------------------------------|---------|-------------|----------|--|--------|---------------------------------------|-------------------------------------|---|---------|-------------|----------|
| YEAR | Koch Gateway Pipeline or FGT | | | | Koch Gateway Pipeline or FGT VARIABLE TRANSPORTATION | | ANNUAL FIXED TRANSPORT & STORAGE COST | Capital Cost of Pipeline Facilities | w/o Taxes Marginal Delivered Gas Prices | | | |
| | Apr,May,Jun | Jul,Aug | Nov,Feb,Mar | Dec, Jan | SUMMER | WINTER | | | Apr,May,Jun | Jul,Aug | Nov,Feb,Mar | Dec, Jan |
| | Sep, Oct | | | | | | | | Sep, Oct | | | |
| 1995 | 164.00 | 144.00 | 157.00 | 192.00 | 7.00 | 7.00 | \$0 | \$0 | 171.00 | 151.00 | 164.00 | 199.00 |
| 1996 | 220.20 | 248.00 | 270.67 | 359.50 | 7.00 | 7.00 | \$0 | \$0 | 227.20 | 255.00 | 277.67 | 366.50 |
| 1997 | 240.00 | 218.00 | 269.33 | 330.50 | 7.00 | 7.00 | \$0 | \$0 | 247.00 | 225.00 | 276.33 | 337.50 |
| 1998 | 205.80 | 215.00 | 218.33 | 232.50 | 7.00 | 7.00 | \$0 | \$0 | 212.80 | 222.00 | 225.33 | 239.50 |
| 1999 | 221.59 | 231.59 | 249.92 | 264.09 | 7.00 | 7.00 | \$0 | \$0 | 228.59 | 238.59 | 256.92 | 271.09 |
| 2000 | 221.59 | 231.59 | 249.92 | 264.09 | 7.00 | 7.00 | \$0 | \$0 | 228.59 | 238.59 | 256.92 | 271.09 |
| 2001 | 221.59 | 231.59 | 249.92 | 264.09 | 7.00 | 7.00 | \$0 | \$0 | 228.59 | 238.59 | 256.92 | 271.09 |
| 2002 | 221.59 | 231.59 | 249.92 | 264.09 | 7.00 | 7.00 | \$0 | \$0 | 228.59 | 238.59 | 256.92 | 271.09 |
| 2003 | 221.59 | 231.59 | 249.92 | 264.09 | 7.00 | 7.00 | \$0 | \$0 | 228.59 | 238.59 | 256.92 | 271.09 |
| 2004 | 221.59 | 231.59 | 249.92 | 264.09 | 7.00 | 7.00 | \$0 | \$0 | 228.59 | 238.59 | 256.92 | 271.09 |
| 2005 | 239.91 | 249.91 | 268.25 | 282.41 | 7.00 | 7.00 | \$0 | \$0 | 246.91 | 256.91 | 275.25 | 289.41 |
| 2006 | 255.12 | 265.12 | 283.45 | 297.62 | 7.00 | 7.00 | \$0 | \$0 | 262.12 | 272.12 | 290.45 | 304.62 |
| 2007 | 271.31 | 281.31 | 299.64 | 313.81 | 7.00 | 7.00 | \$0 | \$0 | 278.31 | 288.31 | 306.64 | 320.81 |
| 2008 | 288.56 | 298.56 | 316.89 | 331.06 | 7.00 | 7.00 | \$0 | \$0 | 295.56 | 305.56 | 323.89 | 338.06 |
| 2009 | 291.38 | 301.38 | 319.72 | 333.88 | 7.00 | 7.00 | \$0 | \$0 | 298.38 | 308.38 | 326.72 | 340.88 |
| 2010 | 294.24 | 304.24 | 322.57 | 336.74 | 7.00 | 7.00 | \$0 | \$0 | 301.24 | 311.24 | 329.57 | 343.74 |
| 2011 | 301.44 | 311.44 | 329.78 | 343.94 | 7.00 | 7.00 | \$0 | \$0 | 308.44 | 318.44 | 336.78 | 350.94 |
| 2012 | 308.83 | 318.83 | 337.16 | 351.33 | 7.00 | 7.00 | \$0 | \$0 | 315.83 | 325.83 | 344.16 | 358.33 |
| 2013 | 316.40 | 326.40 | 344.73 | 358.90 | 7.00 | 7.00 | \$0 | \$0 | 323.40 | 333.40 | 351.73 | 365.90 |
| 2014 | 324.16 | 334.16 | 352.49 | 366.66 | 7.00 | 7.00 | \$0 | \$0 | 331.16 | 341.16 | 359.49 | 373.66 |
| 2015 | 332.12 | 342.12 | 360.45 | 374.62 | 7.00 | 7.00 | \$0 | \$0 | 339.12 | 349.12 | 367.45 | 381.62 |
| 2016 | 340.27 | 350.27 | 368.60 | 382.77 | 7.00 | 7.00 | \$0 | \$0 | 347.27 | 357.27 | 375.60 | 389.77 |
| 2017 | 365.84 | 375.84 | 394.17 | 408.34 | 8.00 | 8.00 | \$0 | \$0 | 373.84 | 383.84 | 402.17 | 416.34 |
| 2018 | 393.37 | 403.37 | 421.70 | 435.87 | 8.00 | 8.00 | \$0 | \$0 | 401.37 | 411.37 | 429.70 | 443.87 |
| 2019 | 422.81 | 432.81 | 451.14 | 465.31 | 8.00 | 8.00 | \$0 | \$0 | 430.81 | 440.81 | 459.14 | 473.31 |
| 2020 | 437.82 | 447.82 | 466.15 | 480.32 | 8.00 | 8.00 | \$0 | \$0 | 445.82 | 455.82 | 474.15 | 488.32 |
| 2021 | 453.36 | 463.36 | 481.70 | 495.86 | 8.00 | 8.00 | \$0 | \$0 | 461.36 | 471.36 | 489.70 | 503.86 |

October. Winter Months = November through March
to marginal costs to determine total fuel costs.

010

**SOUTHERN ELECTRIC SYSTEM 1998 PROJECTIONS OF GENERIC NOMINAL NATURAL GAS PRICES
FOR USE IN THE 1999 FUEL BUDGET AND OTHER LONG-TERM STUDIES**

CONFIDENTIAL.

Gulf Power Company

Sonat sells 500 MW at Holmes County, FL

Revised offer to include firm transport rates. Sonat allows SCS to buy gas for plant, hedge prices and do some trading. Assume transport is Primary Firm

Assumes that SCS Fuel Services has control over Fuel Prices, No gas storage, FGT Index type pricing, FS 2 commodity rates

Without Gas Storage - Assume 2 weeks oil burn per year during hurricane season

Generation = 500,000 kw 7,045 btu/kw Pipeline Transportation Capacity = 84,540 MMBtu/day

| 2 | NOMINAL CENTS/MMBTU - 1.030 MMBTU/MCF | | | | | | | | | | | | w/o taxes No. 2 Fuel Oil | |
|------|---------------------------------------|---------|-------------|----------|----------------|--------|--------------|-----------------------------------|-------------------------------|---------|-------------|----------|--------------------------------|-------------------------|
| | Florida Gas Transmission | | | | ANNUAL | | | Capital | w/o Taxes | | | | | 2 weeks/yr in August |
| | Florida Gas Transmission | | | | VARIABLE | | FIXED | Cost of Pipeline Facilities | Marginal Delivered Gas Prices | | | | | |
| | Apr,May,Jun | Jul,Aug | Nov,Feb,Mar | Dec, Jan | TRANSPORTATION | | TRANSPORT | | Apr,May,Jun | Jul,Aug | Nov,Feb,Mar | Dec, Jan | | |
| YEAR | Sep, Oct | Jul,Aug | Nov,Feb,Mar | Dec, Jan | SUMMER | WINTER | COST | Facilities | Sep, Oct | Jul,Aug | Nov,Feb,Mar | Dec, Jan | | |
| 1995 | 168.80 | 149.50 | 162.67 | 197.00 | 9.34 | 9.71 | \$0 | \$0 | 178.14 | 158.84 | 172.38 | 206.71 | 352.10 | |
| 1996 | 223.20 | 251.50 | 267.00 | 356.00 | 12.47 | 14.90 | \$0 | \$0 | 235.67 | 263.97 | 281.90 | 370.90 | 430.58 | |
| 1997 | 240.00 | 220.00 | 270.33 | 334.50 | 9.56 | 11.47 | \$0 | \$0 | 249.56 | 229.56 | 281.80 | 345.97 | 395.13 | |
| 1998 | 205.00 | 214.00 | 217.50 | 235.07 | 8.74 | 9.26 | \$0 | \$0 | 213.74 | 222.74 | 226.76 | 244.33 | 314.14 | |
| 1999 | 221.60 | 221.60 | 221.60 | 221.60 | 9.17 | 9.17 | \$0 | \$0 | 230.77 | 230.77 | 230.77 | 230.77 | 435.75 | |
| 2000 | 221.60 | 221.60 | 221.60 | 221.60 | 9.17 | 9.17 | \$0 | \$0 | 230.77 | 230.77 | 230.77 | 230.77 | 448.30 | |
| 2001 | 221.60 | 221.60 | 221.60 | 221.60 | 9.17 | 9.17 | \$0 | \$0 | 230.77 | 230.77 | 230.77 | 230.77 | 460.73 | |
| 2002 | 221.60 | 221.60 | 221.60 | 221.60 | 9.17 | 9.17 | \$15,768,000 | \$0 | 230.77 | 230.77 | 230.77 | 230.77 | 473.82 | |
| 2003 | 221.60 | 221.60 | 221.60 | 221.60 | 9.17 | 9.17 | \$15,768,000 | \$0 | 230.77 | 230.77 | 230.77 | 230.77 | 487.95 | |
| 2004 | 221.60 | 221.60 | 221.60 | 221.60 | 9.17 | 9.17 | \$15,768,000 | \$0 | 230.77 | 230.77 | 230.77 | 230.77 | 502.95 | |
| 2005 | 239.43 | 239.43 | 239.43 | 239.43 | 9.72 | 9.72 | \$15,768,000 | \$0 | 249.15 | 249.15 | 249.15 | 249.15 | 518.42 | |
| 2006 | 254.60 | 254.60 | 254.60 | 254.60 | 10.19 | 10.19 | \$15,768,000 | \$0 | 264.79 | 264.79 | 264.79 | 264.79 | 534.30 | |
| 2007 | 270.76 | 270.76 | 270.76 | 270.76 | 10.69 | 10.69 | \$15,768,000 | \$0 | 281.45 | 281.45 | 281.45 | 281.45 | 550.68 | |
| 2008 | 287.97 | 287.97 | 287.97 | 287.97 | 11.22 | 11.22 | \$15,768,000 | \$0 | 299.19 | 299.19 | 299.19 | 299.19 | 567.58 | |
| 2009 | 290.79 | 290.79 | 290.79 | 290.79 | 11.31 | 11.31 | \$15,768,000 | \$0 | 302.10 | 302.10 | 302.10 | 302.10 | 585.01 | |
| 2010 | 293.13 | 293.13 | 293.13 | 293.13 | 11.38 | 11.38 | \$15,768,000 | \$0 | 304.52 | 304.52 | 304.52 | 304.52 | 608.70 | |
| 2011 | 300.31 | 300.31 | 300.31 | 300.31 | 11.60 | 11.60 | \$15,768,000 | \$0 | 311.92 | 311.92 | 311.92 | 311.92 | 633.37 | |
| 2012 | 307.67 | 307.67 | 307.67 | 307.67 | 11.83 | 11.83 | \$15,768,000 | \$0 | 319.50 | 319.50 | 319.50 | 319.50 | 659.07 | |
| 2013 | 315.21 | 315.21 | 315.21 | 315.21 | 12.06 | 12.06 | \$15,768,000 | \$0 | 327.28 | 327.28 | 327.28 | 327.28 | 685.83 | |
| 2014 | 322.94 | 322.94 | 322.94 | 322.94 | 12.30 | 12.30 | \$15,768,000 | \$0 | 335.25 | 335.25 | 335.25 | 335.25 | 713.70 | |
| 2015 | 330.87 | 330.87 | 330.87 | 330.87 | 12.55 | 12.55 | \$15,768,000 | \$0 | 343.41 | 343.41 | 343.41 | 343.41 | 742.87 | |
| 2016 | 338.49 | 338.49 | 338.49 | 338.49 | 12.78 | 12.78 | \$15,768,000 | \$0 | 351.27 | 351.27 | 351.27 | 351.27 | 772.92 | |
| 2017 | 363.92 | 363.92 | 363.92 | 363.92 | 13.57 | 13.57 | \$15,768,000 | \$0 | 377.49 | 377.49 | 377.49 | 377.49 | 803.59 | |
| 2018 | 391.30 | 391.30 | 391.30 | 391.30 | 14.42 | 14.42 | \$15,768,000 | \$0 | 405.72 | 405.72 | 405.72 | 405.72 | 835.36 | |
| 2019 | 420.59 | 420.59 | 420.59 | 420.59 | 15.32 | 15.32 | \$15,768,000 | \$0 | 435.91 | 435.91 | 435.91 | 435.91 | 868.55 | |
| 2020 | 435.51 | 435.51 | 435.51 | 435.51 | 15.78 | 15.78 | \$15,768,000 | \$0 | 451.29 | 451.29 | 451.29 | 451.29 | 911.32 | |
| 2021 | 450.98 | 450.98 | 450.98 | 450.98 | 16.26 | 16.26 | \$15,768,000 | \$0 | 467.23 | 467.23 | 467.23 | 467.23 | 956.17 | |

October. Winter Months = November Thru March
to marginal costs to determine total fuel costs.

**SOUTHERN ELECTRIC SYSTEM 1998 PROJECTIONS OF GENERIC NOMINAL NATURAL GAS PRICES
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CONFIDENTIAL

Gulf Power Company

**Sonat Constructs 360 MW dual fuel Combustion Turbine Plant in Holmes Co., FL
Forecast of Daily Gas Prices delivered into FGT used. No demand Charges
Fuel Oil Used in July & August & 50% oil used in June**

Generation = 360,000 kw Heat Rate = 12,000 btu/kw Transport Capacity Required = 103,680 MMBtu/day

| Natural Gas & Fuel Oil | | | | | | | | | | | | | No. 2 Fuel Oil Delivered 100% Jul, Aug 50% JUN |
|---------------------------------------|--------------------------|----------|---------------|----------|--|--------|---|--|--|----------|---------------|----------|---|
| NOMINAL CENTS/MMBTU - 1.030 MMBTU/MCF | | | | | | | | | | | | | |
| YEAR | Florida Gas Transmission | | | | Florida Gas Transmission VARIABLE TRANSPORTATION | | ANNUAL FIXED TRANSPORT & STORAGE COST | Capital Cost of Pipeline Facilities | w/o Taxes Marginal Delivered Gas Prices | | | | |
| | Apr,May,Jun Sep, Oct | Jul, Aug | Nov, Feb, Mar | Dec, Jan | SUMMER | WINTER | | | Apr, May, Jun Sep, Oct | Jul, Aug | Nov, Feb, Mar | Dec, Jan | |
| 1995 | 169.60 | 150.50 | 163.00 | 202.50 | 33.98 | 26.29 | \$0 | \$0 | 203.58 | 184.48 | 189.29 | 228.79 | 352.10 |
| 1996 | 222.80 | 253.50 | 275.00 | 369.50 | 37.08 | 30.69 | \$0 | \$0 | 259.88 | 290.58 | 305.69 | 400.19 | 430.58 |
| 1997 | 245.40 | 221.50 | 274.67 | 325.00 | 61.69 | 49.19 | \$0 | \$0 | 307.09 | 283.19 | 323.86 | 374.19 | 395.13 |
| 1998 | 213.00 | 224.50 | 227.00 | 243.00 | 61.00 | 46.74 | \$0 | \$0 | 274.00 | 285.50 | 273.74 | 289.74 | 314.14 |
| 1999 | 220.60 | 230.60 | 253.93 | 268.10 | 61.22 | 47.52 | \$0 | \$0 | 281.82 | 291.82 | 301.46 | 315.62 | 435.75 |
| 2000 | 220.60 | 230.60 | 253.93 | 268.10 | 61.22 | 47.52 | \$0 | \$0 | 281.82 | 291.82 | 301.46 | 315.62 | 448.30 |
| 2001 | 220.60 | 230.60 | 253.93 | 268.10 | 61.22 | 47.52 | \$0 | \$0 | 281.82 | 291.82 | 301.46 | 315.62 | 460.73 |
| 2002 | 220.60 | 230.60 | 253.93 | 268.10 | 61.22 | 47.52 | \$0 | \$0 | 281.82 | 291.82 | 301.46 | 315.62 | 473.82 |
| 2003 | 220.60 | 230.60 | 253.93 | 268.10 | 61.22 | 47.52 | \$0 | \$0 | 281.82 | 291.82 | 301.46 | 315.62 | 487.95 |
| 2004 | 220.60 | 230.60 | 253.93 | 268.10 | 61.22 | 47.52 | \$0 | \$0 | 281.82 | 291.82 | 301.46 | 315.62 | 502.95 |
| 2005 | 238.93 | 248.93 | 272.26 | 286.43 | 61.79 | 48.09 | \$0 | \$0 | 300.71 | 310.71 | 320.35 | 334.51 | 518.42 |
| 2006 | 254.13 | 264.13 | 287.46 | 301.63 | 62.26 | 48.56 | \$0 | \$0 | 316.39 | 326.39 | 336.02 | 350.19 | 534.30 |
| 2007 | 270.32 | 285.32 | 303.66 | 317.82 | 62.80 | 49.06 | \$0 | \$0 | 333.12 | 348.12 | 352.72 | 366.88 | 550.68 |
| 2008 | 287.57 | 302.57 | 320.90 | 335.07 | 63.33 | 49.59 | \$0 | \$0 | 350.90 | 365.90 | 370.50 | 384.66 | 567.58 |
| 2009 | 290.40 | 305.40 | 323.73 | 337.90 | 63.42 | 49.68 | \$0 | \$0 | 353.82 | 368.82 | 373.41 | 387.58 | 585.01 |
| 2010 | 293.25 | 308.25 | 326.58 | 340.75 | 63.51 | 49.77 | \$0 | \$0 | 356.76 | 371.76 | 376.35 | 390.52 | 608.70 |
| 2011 | 300.46 | 315.46 | 333.79 | 347.96 | 63.73 | 49.99 | \$0 | \$0 | 364.19 | 379.19 | 383.78 | 397.95 | 633.37 |
| 2012 | 307.84 | 322.84 | 341.18 | 355.34 | 63.96 | 50.22 | \$0 | \$0 | 371.80 | 386.80 | 391.39 | 405.56 | 659.07 |
| 2013 | 315.41 | 330.41 | 348.75 | 362.91 | 64.19 | 50.45 | \$0 | \$0 | 379.61 | 394.61 | 399.20 | 413.37 | 685.83 |
| 2014 | 323.17 | 338.17 | 356.51 | 370.67 | 64.43 | 50.69 | \$0 | \$0 | 387.61 | 402.61 | 407.20 | 421.37 | 713.70 |
| 2015 | 331.13 | 346.13 | 364.46 | 378.63 | 64.68 | 50.94 | \$0 | \$0 | 395.81 | 410.81 | 415.40 | 429.57 | 742.87 |
| 2016 | 339.28 | 354.28 | 372.62 | 386.78 | 64.93 | 51.19 | \$0 | \$0 | 404.21 | 419.21 | 423.81 | 437.97 | 772.92 |
| 2017 | 364.85 | 379.85 | 398.19 | 412.35 | 65.72 | 51.98 | \$0 | \$0 | 430.58 | 445.58 | 450.17 | 464.33 | 803.59 |
| 2018 | 392.38 | 407.38 | 425.72 | 439.88 | 66.57 | 52.83 | \$0 | \$0 | 458.96 | 473.96 | 478.55 | 492.71 | 835.36 |
| 2019 | 421.82 | 436.82 | 455.16 | 469.32 | 67.48 | 53.74 | \$0 | \$0 | 489.31 | 504.31 | 508.90 | 523.07 | 868.55 |
| 2020 | 436.83 | 451.83 | 470.16 | 484.33 | 67.95 | 54.20 | \$0 | \$0 | 504.78 | 519.78 | 524.37 | 538.53 | 911.32 |
| 2021 | 452.38 | 467.38 | 485.71 | 499.88 | 68.43 | 54.68 | \$0 | \$0 | 520.80 | 535.80 | 540.39 | 554.56 | 956.17 |
| 2022 | 468.48 | 483.48 | 501.82 | 515.98 | 68.92 | 55.18 | \$0 | \$0 | 537.41 | 571.16 | 548.03 | 571.16 | 1,003.26 |

October. Winter Months = November through March
to marginal costs to determine total fuel costs.

**SOUTHERN ELECTRIC SYSTEM 1998 PROJECTIONS OF GENERIC NOMINAL NATURAL GAS PRICES
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CONFIDENTIAL

Gulf Power Company

**SCS builds 125 mile pipeline from Plant Smith to Atmore, AL
Contract with FGT for Firm Transportation Space from Destin PL to Atmore, AL**

| Generation = 532,000 kw | | | | | Pipeline Capacity = 86,567 MMBtu/day | | | | | | | 50.00% | 75.00% | 100.00% |
|-------------------------|--------------------------|---------|-------------|----------|--|---|---|------------------------------------|--------|---------|---|---|---|---------|
| Natural Gas Fuel Only | | | | | NOMINAL CENTS/MMBTU - 1.030 MMBTU/MCF | | | | | | | L.F. | L.F. | L.F. |
| YEAR | Florida Gas Transmission | | | | Florida Gas Transmission VARIABLE TRANSPORTATION | ANNUAL FIXED TRANSPORT & STORAGE COST | PIPELINE Facility CAPITAL COST | w/o Taxes MARGINAL DELIVERED | | | Average Total Gas Delivered Price | Average Total Gas Delivered Price | Average Total Gas Delivered Price | |
| | Apr,May,Jun | Jul,Aug | Nov,Feb,Mar | Dec, Jan | | | | SUMMER | WINTER | AVERAGE | | | | |
| | Sep, Oct | 5 | | | | | | | | | | | | |
| 1995 | 164.30 | 145.00 | 158.17 | 192.50 | 5.56 | 5.63 | \$0 | \$0 | 169.86 | 198.13 | 169.84 | | | |
| 1996 | 218.70 | 247.00 | 262.50 | 351.50 | 5.90 | 6.30 | \$0 | \$0 | 224.60 | 357.80 | 262.57 | | | |
| 1997 | 235.50 | 215.50 | 265.83 | 330.00 | 3.65 | 3.93 | \$0 | \$0 | 239.15 | 333.93 | 259.27 | | | |
| 1998 | 200.50 | 209.50 | 213.00 | 230.57 | 3.54 | 3.63 | \$0 | \$0 | 204.04 | 234.20 | 213.71 | | | |
| 1999 | 217.10 | 217.10 | 217.10 | 217.10 | 2.72 | 2.72 | \$0 | \$0 | 219.82 | 219.82 | 219.82 | | | |
| 2000 | 217.10 | 217.10 | 217.10 | 217.10 | 2.72 | 2.72 | \$0 | \$0 | 219.82 | 219.82 | 219.82 | | | |
| 2001 | 217.10 | 217.10 | 217.10 | 217.10 | 7.47 | 7.47 | \$16,114,454 | \$0 | 224.57 | 224.57 | 224.57 | | | |
| 2002 | 217.10 | 217.10 | 217.10 | 217.10 | 7.61 | 7.61 | \$16,114,454 | \$0 | 224.71 | 224.71 | 224.71 | 326.71 | 292.71 | 238.71 |
| 2003 | 217.10 | 217.10 | 217.10 | 217.10 | 7.77 | 7.77 | \$16,114,454 | \$0 | 224.87 | 224.87 | 224.87 | 326.87 | 292.87 | 238.87 |
| 2004 | 217.10 | 217.10 | 217.10 | 217.10 | 7.93 | 7.93 | \$16,114,454 | \$0 | 225.03 | 225.03 | 225.03 | 327.03 | 293.03 | 239.03 |
| 2005 | 234.93 | 234.93 | 234.93 | 234.93 | 8.18 | 8.18 | \$16,114,454 | \$0 | 243.11 | 243.11 | 243.11 | 345.11 | 311.11 | 257.11 |
| 2006 | 250.10 | 250.10 | 250.10 | 250.10 | 8.43 | 8.43 | \$16,114,454 | \$0 | 258.53 | 258.53 | 258.53 | 360.53 | 326.53 | 272.53 |
| 2007 | 266.26 | 266.26 | 266.26 | 266.26 | 8.68 | 8.68 | \$16,114,454 | \$0 | 274.94 | 274.94 | 274.94 | 376.94 | 342.94 | 288.94 |
| 2008 | 283.47 | 283.47 | 283.47 | 283.47 | 8.95 | 8.95 | \$16,114,454 | \$0 | 292.42 | 292.42 | 292.42 | 394.42 | 360.42 | 306.42 |
| 2009 | 286.29 | 286.29 | 286.29 | 286.29 | 9.15 | 9.15 | \$16,114,454 | \$0 | 295.44 | 295.44 | 295.44 | 397.44 | 363.44 | 309.44 |
| 2010 | 288.63 | 288.63 | 288.63 | 288.63 | 9.35 | 9.35 | \$16,114,454 | \$0 | 297.99 | 297.99 | 297.99 | 399.99 | 365.99 | 311.99 |
| 2011 | 295.81 | 295.81 | 295.81 | 295.81 | 9.59 | 9.59 | \$16,114,454 | \$0 | 305.40 | 305.40 | 305.40 | 407.40 | 373.40 | 319.40 |
| 2012 | 303.17 | 303.17 | 303.17 | 303.17 | 9.83 | 9.83 | \$16,114,454 | \$0 | 313.00 | 313.00 | 313.00 | 415.00 | 381.00 | 327.00 |
| 2013 | 310.71 | 310.71 | 310.71 | 310.71 | 10.08 | 10.08 | \$16,114,454 | \$0 | 320.79 | 320.79 | 320.79 | 422.79 | 388.79 | 334.79 |
| 2014 | 318.44 | 318.44 | 318.44 | 318.44 | 10.33 | 10.33 | \$16,114,454 | \$0 | 328.78 | 328.78 | 328.78 | 430.78 | 396.78 | 342.78 |
| 2015 | 326.37 | 326.37 | 326.37 | 326.37 | 10.59 | 10.59 | \$16,114,454 | \$0 | 336.96 | 336.96 | 336.96 | 438.96 | 404.96 | 350.96 |
| 2016 | 333.99 | 333.99 | 333.99 | 333.99 | 10.86 | 10.86 | \$16,114,454 | \$0 | 344.85 | 344.85 | 344.85 | 446.85 | 412.85 | 358.85 |
| 2017 | 359.42 | 359.42 | 359.42 | 359.42 | 11.21 | 11.21 | \$16,114,454 | \$0 | 370.64 | 370.64 | 370.64 | 472.64 | 438.64 | 384.64 |
| 2018 | 386.80 | 386.80 | 386.80 | 386.80 | 11.59 | 11.59 | \$16,114,454 | \$0 | 398.39 | 398.39 | 398.39 | 500.39 | 466.39 | 412.39 |
| 2019 | 416.09 | 416.09 | 416.09 | 416.09 | 11.98 | 11.98 | \$16,114,454 | \$0 | 428.06 | 428.06 | 428.06 | 530.06 | 496.06 | 442.06 |
| 2020 | 431.01 | 431.01 | 431.01 | 431.01 | 12.30 | 12.30 | \$16,114,454 | \$0 | 443.31 | 443.31 | 443.31 | 545.31 | 511.31 | 457.31 |
| 2021 | 446.48 | 446.48 | 446.48 | 446.48 | 12.63 | 12.63 | \$16,114,454 | \$0 | 459.11 | 459.11 | 459.11 | 561.11 | 527.11 | 473.11 |

Notes: Summer months = April through October. Winter Months = November, December and March

Fixed costs must be added to marginal costs to determine total fuel costs.

Capital Cost of Pipeline Lateral not included in Fuel Cost.

**SOUTHERN ELECTRIC SYSTEM 1998 PROJECTIONS OF GENERIC NOMINAL NATURAL GAS PRICES
FOR USE IN THE 1999 FUEL BUDGET AND OTHER LONG-TERM STUDIES**

CONFIDENTIAL

Gulf Power Company

**Gulf Power Purchases 4th unit at Plant Daniel (266 MW CC unit)
Assumes 1/4 allocation pipeline lateral costs & gas conditioning facilities
Gas storage is purchased, no fuel oil backup**

| Generation = | | 266,000 kw | | | | Pipeline Capacity = 43,284 MMBtu/day | | | | 85.00% | 100.00% | | | | | |
|-----------------------|------------------------------|---------------------------------------|-------------|----------|---|--------------------------------------|---------------------------------------|--------------------------------|---|----------|-------------|---------|-----------------------------------|-----------------------------------|---------|-------|
| Natural Gas Fuel Only | | NOMINAL CENTS/MMBTU - 1.030 MMBTU/MCF | | | | | | | | | | | | L.F. | L.F. | |
| YEAR | Destin PL or Koch Gateway PL | | | | Destin PL or Koch Gateway VARIABLE TRANSPORTATION | | ANNUAL FIXED TRANSPORT & STORAGE COST | PIPELINE Facility CAPITAL COST | w/o Taxes Marginal Delivered Gas Prices | | | | Average Total Gas Delivered Price | Average Total Gas Delivered Price | | |
| | Apr,May,Jun | | Jul,Aug | | Nov,Feb,Mar | | | | Dec, Jan | | Apr,May,Jun | | | | Jul,Aug | |
| | Sep, Oct | Jul,Aug | Nov,Feb,Mar | Dec, Jan | SUMMER | WINTER | Sep, Oct | Jul,Aug | Nov,Feb,Mar | Dec, Jan | Sep, Oct | Jul,Aug | Nov,Feb,Mar | Dec, Jan | Price | Price |
| 1993 | 227.40 | 201.17 | 187.11 | 215.33 | 0.00 | 0.00 | \$0 | \$0 | 227.40 | 215.33 | 210.94 | | | | | |
| 1994 | 174.60 | 185.50 | 213.33 | 186.83 | 0.00 | 0.00 | \$0 | \$0 | 174.60 | 186.83 | 188.14 | | | | | |
| 1995 | 161.93 | 142.67 | 155.11 | 192.67 | 0.00 | 0.00 | \$0 | \$0 | 161.93 | 192.67 | 162.14 | | | | | |
| 1996 | 215.20 | 245.67 | 264.22 | 353.67 | 0.00 | 0.00 | \$0 | \$0 | 215.20 | 353.67 | 255.61 | | | | | |
| 1997 | 234.80 | 214.17 | 265.67 | 320.17 | 0.00 | 0.00 | \$0 | \$0 | 234.80 | 320.17 | 253.31 | | | | | |
| 1998 | 200.00 | 199.00 | 216.83 | 230.19 | 0.00 | 0.00 | \$0 | \$0 | 200.00 | 230.19 | 209.07 | | | | | |
| 1999 | 217.42 | 217.42 | 217.42 | 217.42 | 0.00 | 0.00 | \$0 | \$0 | 217.42 | 217.42 | 217.42 | | | | | |
| 2000 | 217.42 | 217.42 | 217.42 | 217.42 | 0.00 | 0.00 | \$0 | \$0 | 217.42 | 217.42 | 217.42 | | | | | |
| 2001 | 218.92 | 218.92 | 218.92 | 218.92 | 0.00 | 0.00 | \$1,648,401 | \$1,500,000 | 218.92 | 218.92 | 218.92 | 239.70 | 236.59 | | | |
| 2002 | 218.92 | 218.92 | 218.92 | 218.92 | 0.00 | 0.00 | \$1,648,401 | \$0 | 218.92 | 218.92 | 218.92 | 239.70 | 236.59 | | | |
| 2003 | 218.92 | 218.92 | 218.92 | 218.92 | 0.00 | 0.00 | \$1,648,401 | \$0 | 218.92 | 218.92 | 218.92 | 239.70 | 236.59 | | | |
| 2004 | 218.92 | 218.92 | 218.92 | 218.92 | 0.00 | 0.00 | \$1,648,401 | \$0 | 218.92 | 218.92 | 218.92 | 239.70 | 236.59 | | | |
| 2005 | 237.08 | 237.08 | 237.08 | 237.08 | 0.00 | 0.00 | \$1,660,191 | \$0 | 237.08 | 237.08 | 237.08 | 257.95 | 254.82 | | | |
| 2006 | 252.27 | 252.27 | 252.27 | 252.27 | 0.00 | 0.00 | \$1,670,056 | \$0 | 252.27 | 252.27 | 252.27 | 273.22 | 270.08 | | | |
| 2007 | 268.46 | 268.46 | 268.46 | 268.46 | 0.00 | 0.00 | \$1,680,562 | \$0 | 268.46 | 268.46 | 268.46 | 289.48 | 286.33 | | | |
| 2008 | 285.69 | 285.69 | 285.69 | 285.69 | 0.00 | 0.00 | \$1,691,751 | \$0 | 285.69 | 285.69 | 285.69 | 306.80 | 303.63 | | | |
| 2009 | 288.51 | 288.51 | 288.51 | 288.51 | 0.00 | 0.00 | \$1,693,584 | \$0 | 288.51 | 288.51 | 288.51 | 309.63 | 306.47 | | | |
| 2010 | 291.20 | 291.20 | 291.20 | 291.20 | 0.00 | 0.00 | \$1,695,328 | \$0 | 291.20 | 291.20 | 291.20 | 312.33 | 309.16 | | | |
| 2011 | 298.39 | 298.39 | 298.39 | 298.39 | 0.00 | 0.00 | \$1,700,000 | \$0 | 298.39 | 298.39 | 298.39 | 319.56 | 316.39 | | | |
| 2012 | 305.77 | 305.77 | 305.77 | 305.77 | 0.00 | 0.00 | \$1,704,790 | \$0 | 305.77 | 305.77 | 305.77 | 326.98 | 323.80 | | | |
| 2013 | 313.33 | 313.33 | 313.33 | 313.33 | 0.00 | 0.00 | \$1,709,699 | \$0 | 313.33 | 313.33 | 313.33 | 334.57 | 331.39 | | | |
| 2014 | 321.08 | 321.08 | 321.08 | 321.08 | 0.00 | 0.00 | \$1,714,731 | \$0 | 321.08 | 321.08 | 321.08 | 342.36 | 339.17 | | | |
| 2015 | 329.03 | 329.03 | 329.03 | 329.03 | 0.00 | 0.00 | \$1,719,889 | \$0 | 329.03 | 329.03 | 329.03 | 350.34 | 347.15 | | | |
| 2016 | 337.00 | 337.00 | 337.00 | 337.00 | 0.00 | 0.00 | \$1,725,067 | \$0 | 337.00 | 337.00 | 337.00 | 358.36 | 355.16 | | | |
| 2017 | 362.53 | 362.53 | 362.53 | 362.53 | 0.00 | 0.00 | \$1,741,640 | \$0 | 362.53 | 362.53 | 362.53 | 384.01 | 380.79 | | | |
| 2018 | 390.01 | 390.01 | 390.01 | 390.01 | 0.00 | 0.00 | \$1,759,482 | \$0 | 390.01 | 390.01 | 390.01 | 411.62 | 408.38 | | | |
| 2019 | 419.40 | 419.40 | 419.40 | 419.40 | 0.00 | 0.00 | \$1,778,562 | \$0 | 419.40 | 419.40 | 419.40 | 441.15 | 437.89 | | | |
| 2020 | 434.38 | 434.38 | 434.38 | 434.38 | 0.00 | 0.00 | \$1,788,287 | \$0 | 434.38 | 434.38 | 434.38 | 456.20 | 452.93 | | | |
| 2021 | 449.90 | 449.90 | 449.90 | 449.90 | 0.00 | 0.00 | \$1,798,362 | \$0 | 449.90 | 449.90 | 449.90 | 471.80 | 468.51 | | | |

Notes: Summer months = April through October. Winter Months = November, December and March
Fixed costs must be added to marginal costs to determine total fuel costs.

020

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CONFIDENTIAL

SOUTHERN ELECTRIC SYSTEM 1998 PROJECTIONS OF GENERIC NOMINAL NATURAL GAS PRICES FOR USE IN THE 1999 FUEL BUDGET AND OTHER LONG-TERM STUDIES

Gulf Power Company

**Build 323 MW CT Plant at Plant Smith no gas storage, Fuel Oil Backup, released firm & IT transport used
Gulf builds 29 mile - 12 inch lateral pipeline to FGT, Assume fuel oil burned in August**

Generation = 323,000 kw Heat Rate = 11,683 btu/kw Transport Capacity Required = 90,567 MMBtu/day

NOMINAL CENTS/MMBTU - 1.030 MMBTU/MCF

| YEAR | Florida Gas Transmission | | Florida Gas Transmission | | ANNUAL | | TRANSPORTATION & STORAGE COST | | Capital Cost of Pipeline Facilities | w/o Taxes | | | No. 2 Fuel Oil Delivered | |
|------|--------------------------|----------|--------------------------|----------|--------|-----------|-------------------------------|--------|-------------------------------------|-----------|-------------|--------|--------------------------|---------------|
| | Apr,May,Jun | Sep, Oct | Nov, Feb, Mar | Dec, Jan | FIXED | TRANSPORT | TRANSPORT | WINTER | | SUMMER | Apr,May,Jun | Jul | | Nov, Feb, Mar |
| 1995 | 162.80 | 150.00 | 156.67 | 191.00 | 33.98 | 30.69 | 37.08 | 33.98 | 26.29 | 196.78 | 183.98 | 182.96 | 217.29 | 451.97 |
| 1996 | 217.20 | 261.00 | 261.00 | 350.00 | 37.08 | 30.69 | 37.08 | 37.08 | 30.69 | 254.28 | 298.08 | 291.69 | 380.69 | 414.61 |
| 1997 | 234.00 | 213.00 | 264.33 | 328.50 | 61.69 | 49.19 | 61.69 | 61.69 | 49.19 | 295.69 | 274.69 | 313.52 | 377.69 | 329.56 |
| 1998 | 199.00 | 231.00 | 204.67 | 212.00 | 61.00 | 46.74 | 61.00 | 61.00 | 46.74 | 260.00 | 292.00 | 251.41 | 258.74 | 457.25 |
| 1999 | 210.60 | 225.60 | 243.93 | 258.10 | 61.22 | 47.52 | 61.22 | 61.22 | 47.52 | 271.82 | 286.82 | 291.46 | 305.62 | 470.44 |
| 2000 | 210.60 | 225.60 | 243.93 | 258.10 | 61.22 | 47.52 | 61.22 | 61.22 | 47.52 | 271.82 | 286.82 | 291.46 | 305.62 | 483.48 |
| 2001 | 210.60 | 225.60 | 243.93 | 258.10 | 61.22 | 47.52 | 61.22 | 61.22 | 47.52 | 271.82 | 286.82 | 291.46 | 305.62 | 497.22 |
| 2002 | 210.60 | 225.60 | 243.93 | 258.10 | 61.22 | 47.52 | 61.22 | 61.22 | 47.52 | 271.82 | 286.82 | 291.46 | 305.62 | 512.07 |
| 2003 | 210.60 | 225.60 | 243.93 | 258.10 | 61.22 | 47.52 | 61.22 | 61.22 | 47.52 | 271.82 | 286.82 | 291.46 | 305.62 | 527.81 |
| 2004 | 210.60 | 225.60 | 243.93 | 258.10 | 61.22 | 47.52 | 61.22 | 61.22 | 47.52 | 271.82 | 286.82 | 291.46 | 305.62 | 544.06 |
| 2005 | 228.93 | 243.93 | 262.26 | 276.43 | 61.79 | 48.09 | 61.79 | 61.79 | 48.09 | 290.71 | 305.71 | 310.35 | 324.51 | 560.73 |
| 2006 | 244.13 | 259.13 | 277.46 | 291.63 | 62.26 | 48.56 | 62.26 | 62.26 | 48.56 | 306.39 | 321.39 | 326.02 | 340.19 | 577.94 |
| 2007 | 260.32 | 275.32 | 293.66 | 307.82 | 62.80 | 49.06 | 62.80 | 62.80 | 49.06 | 323.12 | 338.12 | 342.72 | 356.88 | 595.68 |
| 2008 | 277.57 | 292.57 | 310.90 | 325.07 | 63.33 | 49.59 | 63.33 | 63.33 | 49.59 | 340.90 | 355.90 | 360.50 | 374.66 | 613.98 |
| 2009 | 280.40 | 295.40 | 313.73 | 327.90 | 63.42 | 49.68 | 63.42 | 63.42 | 49.68 | 343.82 | 358.82 | 363.41 | 377.58 | 638.85 |
| 2010 | 283.25 | 298.25 | 316.58 | 330.75 | 63.51 | 49.77 | 63.51 | 63.51 | 49.77 | 346.76 | 361.76 | 366.35 | 380.52 | 664.76 |
| 2011 | 290.46 | 305.46 | 323.79 | 337.96 | 63.73 | 49.99 | 63.73 | 63.73 | 49.99 | 354.19 | 369.19 | 373.78 | 387.95 | 691.74 |
| 2012 | 297.84 | 312.84 | 331.18 | 345.34 | 63.96 | 50.22 | 63.96 | 63.96 | 50.22 | 361.80 | 376.80 | 381.39 | 395.56 | 719.84 |
| 2013 | 305.41 | 320.41 | 338.75 | 352.91 | 64.19 | 50.45 | 64.19 | 64.19 | 50.45 | 369.61 | 384.61 | 389.20 | 403.37 | 749.10 |
| 2014 | 313.17 | 328.17 | 346.51 | 360.67 | 64.43 | 50.69 | 64.43 | 64.43 | 50.69 | 377.61 | 392.61 | 397.20 | 411.37 | 779.58 |
| 2015 | 321.13 | 336.13 | 354.46 | 368.63 | 64.68 | 50.94 | 64.68 | 64.68 | 50.94 | 385.81 | 400.81 | 405.40 | 419.57 | 811.14 |
| 2016 | 329.28 | 344.28 | 362.62 | 376.78 | 64.93 | 51.19 | 64.93 | 64.93 | 51.19 | 394.21 | 409.21 | 413.81 | 427.97 | 843.34 |
| 2017 | 354.85 | 369.85 | 388.19 | 402.35 | 65.72 | 51.98 | 65.72 | 65.72 | 51.98 | 420.58 | 435.58 | 440.17 | 454.33 | 876.70 |
| 2018 | 382.38 | 397.38 | 415.72 | 429.88 | 66.57 | 52.83 | 66.57 | 66.57 | 52.83 | 448.96 | 463.96 | 468.55 | 482.71 | 911.55 |
| 2019 | 411.82 | 426.82 | 445.16 | 459.32 | 67.48 | 53.74 | 67.48 | 67.48 | 53.74 | 479.31 | 494.31 | 498.90 | 513.07 | 956.46 |
| 2020 | 426.83 | 441.83 | 460.16 | 474.33 | 67.95 | 54.20 | 67.95 | 67.95 | 54.20 | 494.78 | 509.78 | 514.37 | 528.53 | 1,003.54 |
| 2021 | 442.38 | 457.38 | 475.71 | 489.88 | 68.43 | 54.68 | 68.43 | 68.43 | 54.68 | 510.80 | 525.80 | 530.39 | 544.56 | 1,052.99 |

Notes: Summer months = April through October. Winter Months = November through March. Fixed costs must be added to marginal costs to determine total fuel costs.

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**LATE-FILED EXHIBIT 1
DEPOSITION OF WILLIAM F. POPE**

IRP FUEL ASSUMPTIONS

COAL SUPPLY SIDE ASSUMPTIONS

| ITEM | 1998-2001 | 2002-2005 | 2006 - 2022 |
|------------------------------------|--|---|--|
| COMPANY REALIGNMENT | Active consolidations with positive impact on Supply | Consolidations Continue with Positive Impact | Market dominated by Major Companies - Sufficient Competition |
| CAPACITY | Excess. | Excess. | Near Balance New Capacity Needed in Later Years |
| PRODUCTIVITY | Competitive Pressures Increases 2-5%. | Competitive Pressures Increases 2-5%. | Competitive Pressures Increases 2-5%. Some New Technology |
| LABOR | Weak union 1998 Contract Year Minimum Impact | Weak union -- Labor stability. | Weak union -- Labor stability. |
| ENVIRONMENTAL REGULATION | No Impact | Limited Impact NOx? CO2? | Increasing impact. |
| FOREIGN SUPPLY AVAILABILITY | Impact on NS and PRB Market New Production Still Lagging World Demand | Production Still Lagging Demand Minimum Impact on Domestic Markets | Increasing Production Approaching Balance |
| TRANSPORTATION - RAIL | Western Coal Continues to Move East Merged RR's become more effective Slight Sourcing Shift Due to Mergers | Western Coal Continues to Move East Eastern RR's become more productive Merger Cost | Universal Rail Implications |
| TRANSPORTATION - BARGE | Minimal Excess Capacity Slight Overage | Barge Capacity Cycle at Equilibrium - Infrastructure Improvements | Barge Capacity Cycle at Equilibrium - Infrastructure Improvements |

COAL DEMAND SIDE ASSUMPTIONS

| ITEM | 1998-2001 | 2002-2005 | 2006 - 2022 |
|---|--|--|--|
| ENVIRONMENTAL REGULATION | No Effect Emission Market Responds to Phasell | Ozone Non-Attainment Impacts Specific Areas OTAG - Concerns Air Toxics Limited Impact | Struggle Between Environmental Costs & Competitive Energy Pricing |
| ALTERNATE FUELS GAS, OIL, RENEWABLES | Natural Gas is Majority of New Capacity Alternative Energy Sources Limited. | Natural Gas is Majority of New Capacity Alternative Energy Sources Growing. | 15 - 20% of Requirements From Nat. Gas (Peaking & Intermediate) - Growing Alternative Energy Sources |
| LOAD GROWTH | 2.63% Yearly | 2.05% Yearly | 1.84% Yearly |
| U.S. ECONOMY | 2.61% Yearly | 3.08% Yearly | 3.30% Yearly |
| U.S. COAL EXPORTS | U.S. Increasing Growth as Swing Supplier | U.S. Increasing Growth as Swing Supplier | U.S. Increasing Growth as Swing Supplier |
| UTILITY DEREGULATION | No Impact | Market Based Electricity Has Limited Impact | Market Based Electricity Results in Increased Utilization |

Southern Company

1998 Fuel Price Workshop

COAL REGION & TRANSPORTATION ANALYSIS

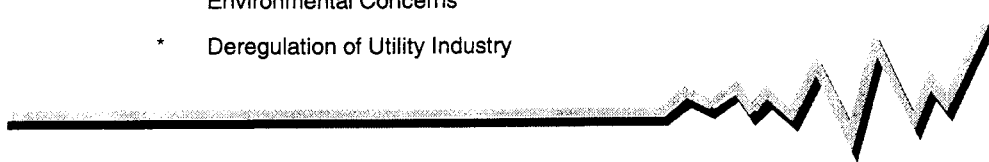
June 23, 1998



CENTRAL APPALACHIA

NSPS COAL - NS

- * Limited Number of Players
- * More Expensive Mining Conditions
- * ALTERNATIVE TO UTILITY STEAM MARKETS
 - Export Market for Steam & Met Coal (Limited Growth)
- * Allowance Market
- * Continued Productivity Gains
- * Limited Short Term Coal Growth Generation
- * Pressures from Alternative Fuels
- * Phase II - Real or Not?
- * Environmental Concerns
- * Deregulation of Utility Industry



CENTRAL APPALACHIA

LOW SULFUR COAL - CSX

1997 - 2004

- * Excess Capacity
- * Allowance Market
- Continued Productivity Gains
- * Consolidations will Continue - Results in Most Efficient, Competitive Production of Product
- Growth in Coal Generation has Stalled - Some New Growth Over Short Term Possible from Increased Capacity at Existing Plants
- Pressures from Alternative Fuels such as Natural Gas , Increased Nuclear Generation, and Western Fuels
- Phase II - Real or Not?
- * Environmental Concerns
- * Deregulation of Utility Industry



CENTRAL APPALACHIA

LOW SULFUR COAL - CSX (con't)

2005 - 2020

- * Capacity / Supply Reach Equilibrium
- * Reserve Depletion; Difficult Mining Conditions
- * Possible Increase in Demand as some Nuclear units will be Retired
- * CO2 Concerns
- * New Technology will help Coal Compete with Gas and Other Alternatives



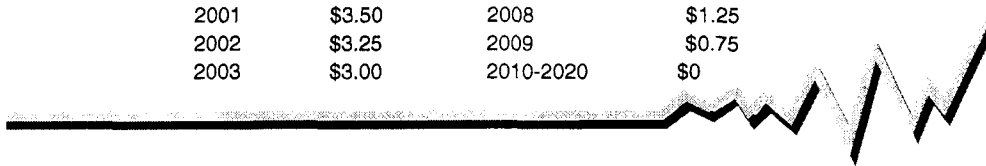
CENTRAL APPALACHIA

LOW SULFUR COAL - NS

- * Limited Number of Players
- * More Expensive Mining Conditions
- * ALTERNATIVE TO UTILITY STEAM MARKETS
 - Export Market for Steam & Met Coal (Limited Growth)
- * Same Pressures as CSX Coal, Environmental Issues, Alternative Fuels, Deregulation of Utility Industry

* PREMIUM FOR 1% SULFUR; 12000 BTU/ LB.; NS VS. CSX COAL

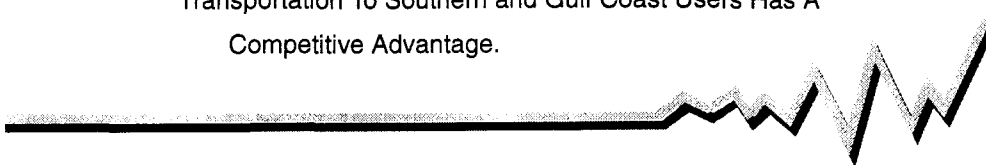
| | | | |
|------|--------|-----------|--------|
| 1997 | \$4.50 | 2004 | \$2.75 |
| 1998 | \$4.25 | 2005 | \$2.50 |
| 1999 | \$4.00 | 2006 | \$2.25 |
| 2000 | \$3.75 | 2007 | \$1.75 |
| 2001 | \$3.50 | 2008 | \$1.25 |
| 2002 | \$3.25 | 2009 | \$0.75 |
| 2003 | \$3.00 | 2010-2020 | \$0 |



ILLINOIS BASIN

MEDIUM SULFUR COAL

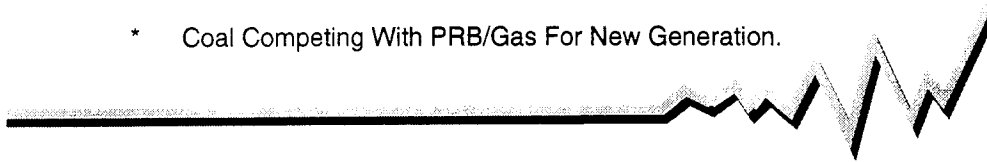
- * Strong Demand With Increasing Supply Through 1999.
- * Reserves For Low/Medium Sulfur Coals Are Projected To Be Depleted BY 2010.
- * Productivity Improvements May Accelerate Depletion.
- Competing for New Generation with PRB / Natural Gas.
- Region Has Transportation Loading Flexibility For Both Rail and Barge.
- Transportation To Southern and Gulf Coast Users Has A Competitive Advantage.



ILLINOIS BASIN

HIGH SULFUR COAL

- * Continuing Active Consolidation.
- * Midwest States May Provide Economic Incentives To Promote "In-State" Coal Use.
- * Coal Will Have Little Demand After Phase I, Except in Existing Scrubber Plants.
- * Beginning in 2010, Scrubber Technology and Cost Should Improve Demand for These Coals.
- * Continued Productivity Gains.
- * Coal Competing With PRB/Gas For New Generation.



ALABAMA

NSPS COAL

1997 - 1999

- * Business as Usual
- * Continued Low Demand for "New" Coal
- * Continued Export / Industrial

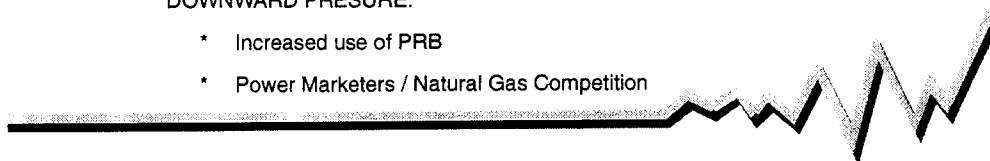
2000 - 2020

UPWARD PRESSURE:

- * Increased Demand - Phase II
- * Continued Export / Industrial
- * Fewer Productivity Gains
- * Geological Conditions

DOWNWARD PRESSURE:

- * Increased use of PRB
- * Power Marketers / Natural Gas Competition



ALABAMA

LOW SULFUR COAL

1997 - 1999

Depressed 1997 Market

- * Low Demand
- Increased Production

2000 - 2020

- * Competes with Compliance Coal and SO2 Allowances



ALABAMA

MEDIUM SULFUR COAL

1997 - 1999

DOWNWARD MARKET PRESSURES:

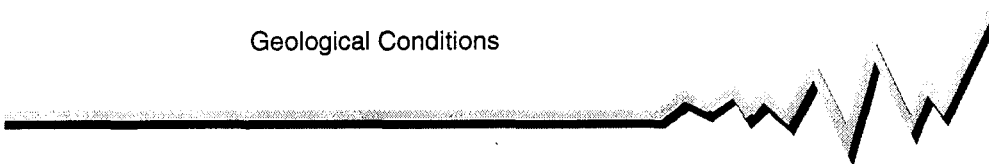
- * Increased Production
- * Plants Opening Specs & Blends

2000 - 2004

- * Sulfur Penalties Force Thin Margins

2005 - 2020

- * Costs Increase Due to Reserves and Geological Conditions



ALABAMA

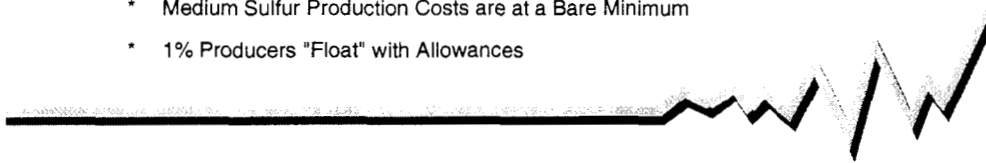
WHY BASE FORECAST ON NSPS AFTER 2000?

- * PHASE II COMPLIANCE - ALL PLANTS AFFECTED

- * MARKET SHARE
 - * Over Half of Alabama Production is NSPS
 - * Increased Production
 - * Industrial / Export

- * MAJOR PLAYERS WILL HAVE MORE CONTROL AS CURRENT CONTRACTS EXPIRE

- * ALL COALS ARE IN BALANCE
 - * Medium Sulfur Production Costs are at a Bare Minimum
 - * 1% Producers "Float" with Allowances



POWDER RIVER BASIN

9200 BTU COAL

- * Production / Capacity
- * Demand
- * Cost Implications



OTHER WESTERN

NSPS COAL

- * Production / Capacity / Demand in Equilibrium Long Term
- * Occasional Demand Spikes (Export)
- * Cost Implications
- * Local Coal



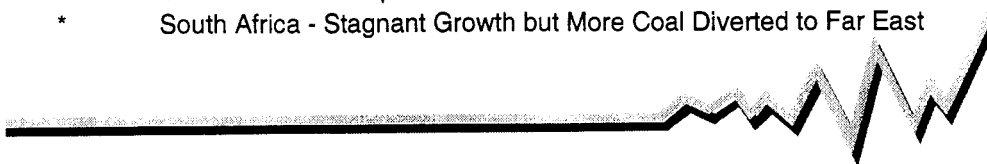
FOREIGN COAL

DEMAND

- * No Strong U.S Demand for these Coals in Preparation for Phase II
- * Strong Increase in Asian Demand
- * Slight Increase in European Demand

SUPPLY

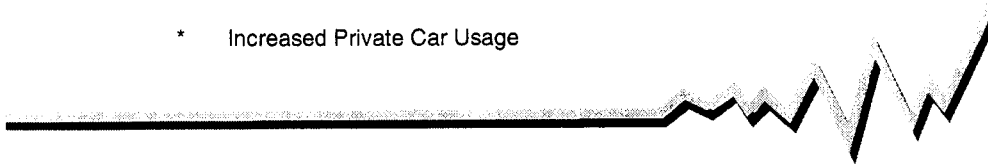
- * Europe - Reduction in Indigenous Coal Production
 - Natural Gas Replaces Coal-Fired Generation
- * Far East - Strong Increase in Indonesian Production
 - Continued Australian Production in Anticipation of Post 1999 Coal Demand
- * South America - Improvements in infrastructure
- * South Africa - Stagnant Growth but More Coal Diverted to Far East



FACTORS AFFECTING RAIL RATES

Downward Pressure

- Productivity Improvements
- * Rail Construction Projects
- OPEN RAIL ACCESS IS THE WILDCARD!!
- * New Electrical Capacity for Utilities will be Gas CT's and CC's
- * Potential for Two Transcontinental Railroads
- * Volume Discounts in Step Rates
- * Increased Private Car Usage



FACTORS AFFECTING RAIL RATES

Upward Pressure

- Utility Deregulation Impact in Year 2000
- * Increases in Intermodal Deliveries
- * Merger Effects
- Exports Have Slight to Moderate Growth



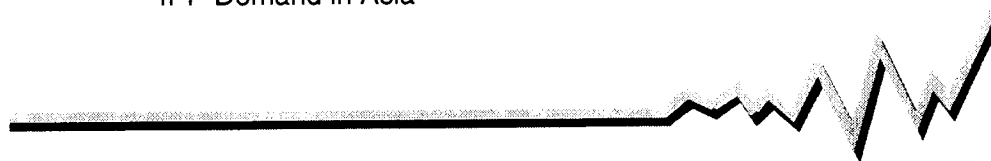
FACTORS AFFECTING BARGE RATES

- * Productivity Improvements - Moving Larger Volumes Over Greater Distances Creates Competition
- * Grain and Steel Movements
- * New Barge Construction and Delayed Retirements will Outpace Demand
- * Utility Deregulation will have Impact in Year 2000
- * Other Factors



FACTORS AFFECTING OCEAN RATES

- * Gas Becoming a Bigger Player in Europe
- * China has Switched From Net Exporter to Net Importer of Grain
- * Demand for Iron Ore and Steel is Slowing
- * Utility deregulation in U.S will have No Impact on Ocean Rates
- * IPP Demand in Asia



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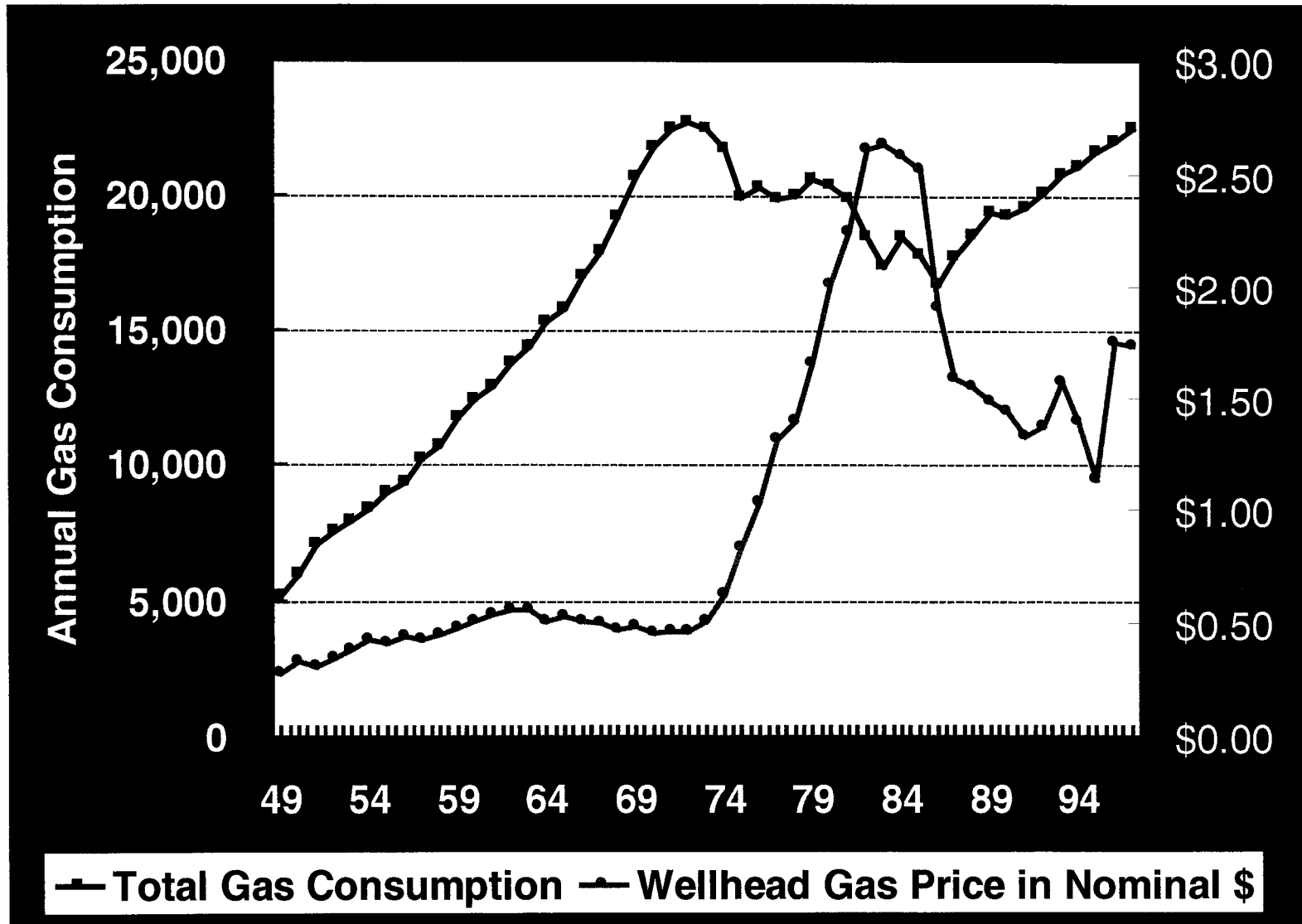
1998 Fuel Panel Workshop

Natural Gas & Fuel Oil Price Forecasts

Historical Look - Gas Demand & Prices

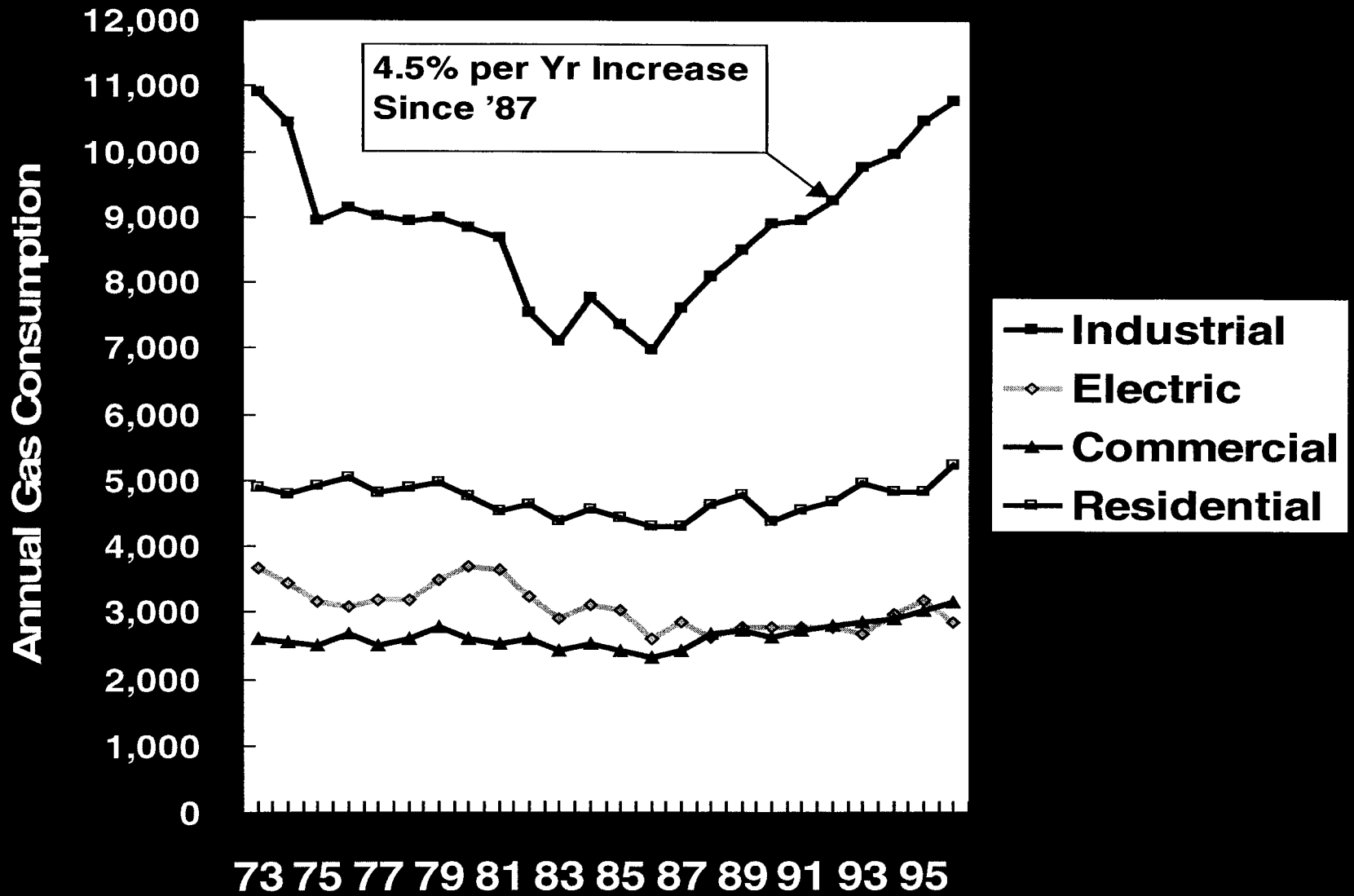
- **1949 to 1973, Gas Demand Increased 3.1%/yr.**
- **Government Prices Controls set prices at about \$0.50/MMBtu.**
- **Shortage of Gas as Prices were too low to make drilling economical.**
- **NGPA of 1978, set very high prices and deregulation of new gas by 1985.**
- **Higher prices stimulate drilling boom and gas surpluses.**
- **In 1985, surpluses & deregulation of gas prices caused lower gas prices.**
- **Lower prices simulated gas demand.**

Historical Look at Gas Demand & Prices



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Natural Gas Consumption

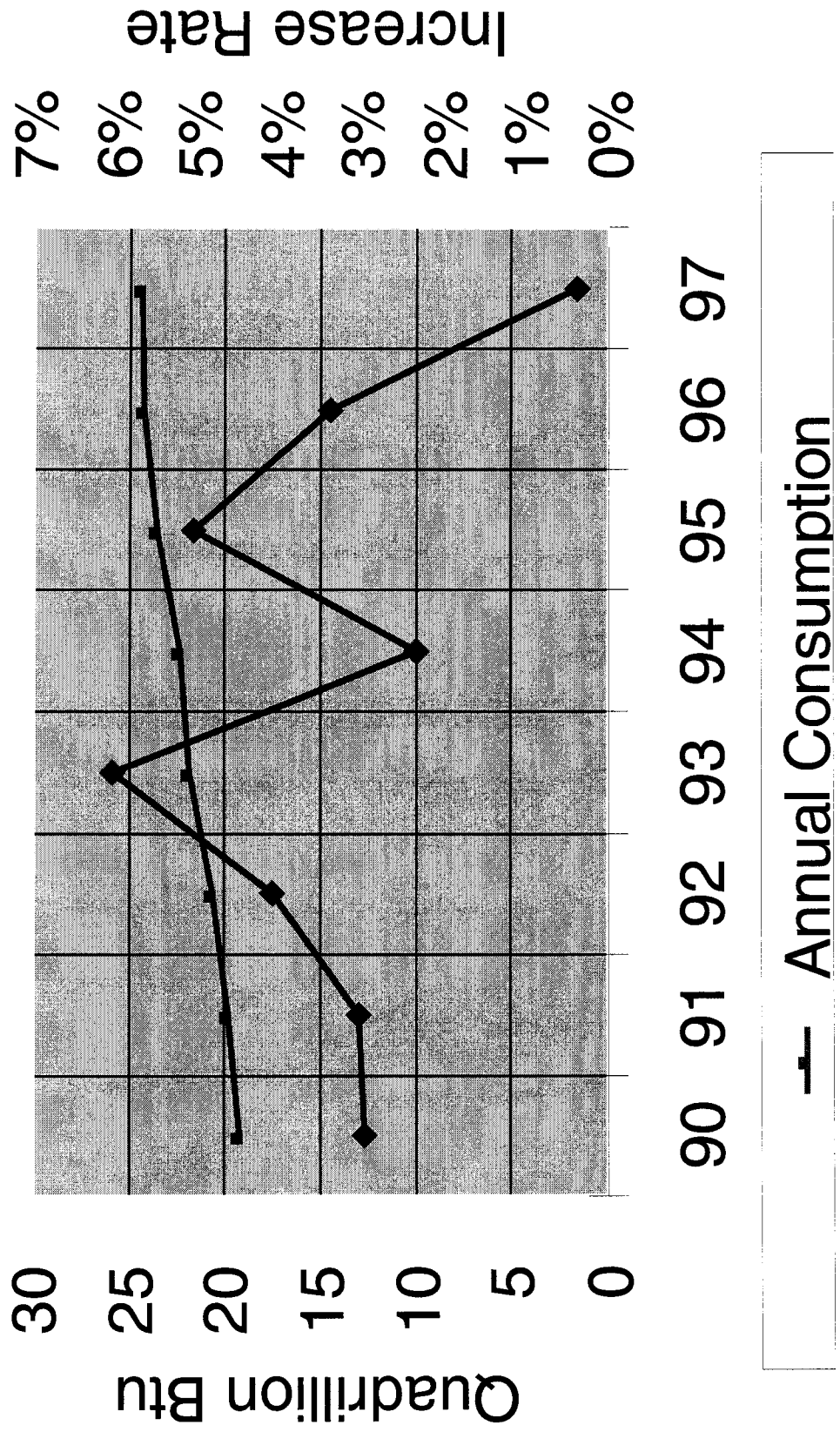


057

Natural Gas Consumption

- **Since 1987, Industrial Gas Consumption has increased at the rate of 4.5% per year.**
- **Residential & Commercial have increased but only a small amount.**
- **Electric consumption has declined.**
- **The strong economy and industrial expansion have caused higher summer gas prices.**

Annual U.S. Gas Consumption



Industrial Gas Consumption

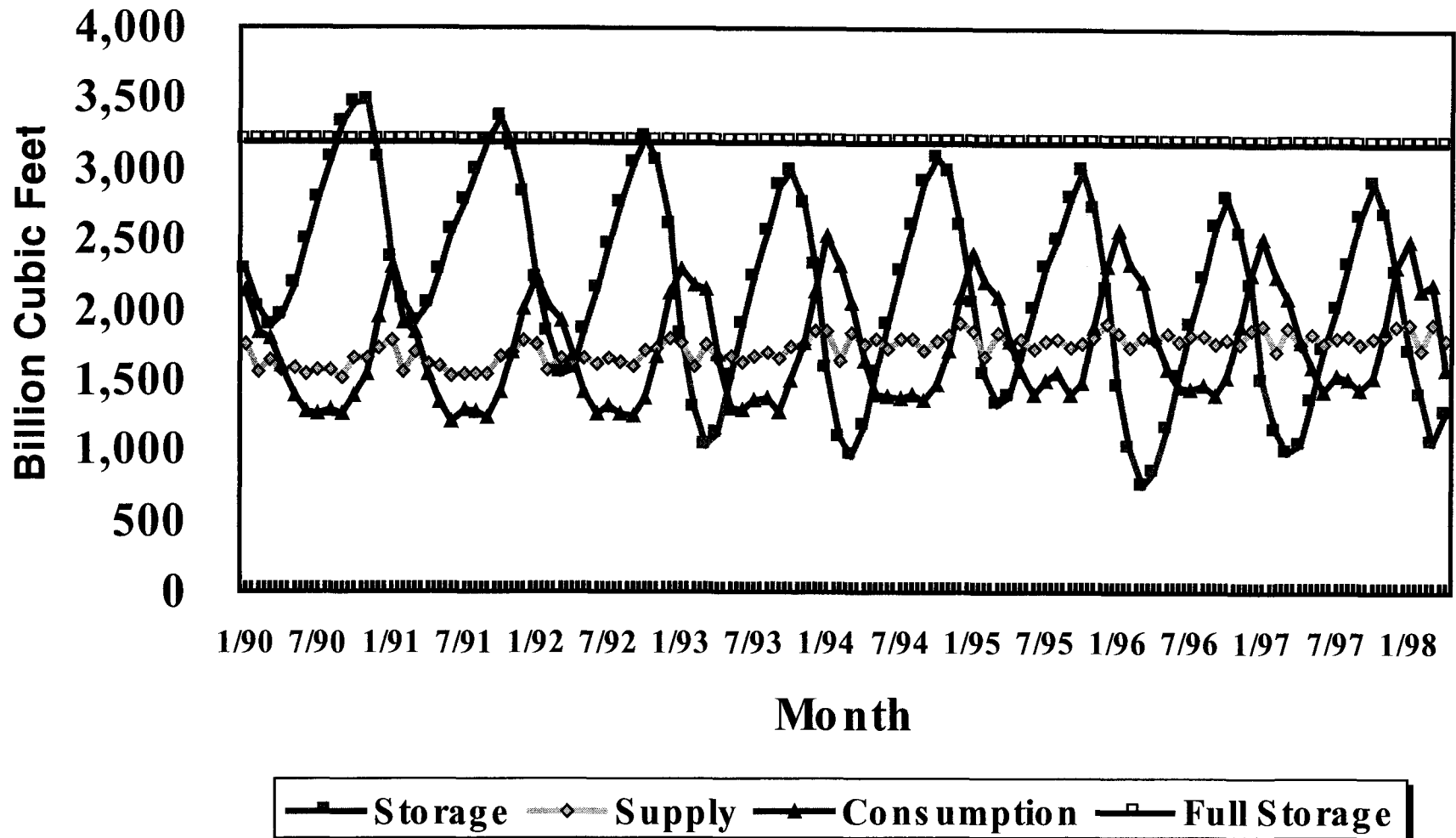
- **Since the 1990 recession, Industrial Gas Consumption has grown rapidly.**
- **In 1997, the Rate of growth in Industrial Gas Consumption slowed to near 0%.**
- **This makes sense due to low unemployment level and plant capacity being used.**
- **Therefore, we do not believe Industrial Gas Consumption will continue its rapid rate of increase.**

**So, why have gas prices been
higher the past two years?**

Shortage of Gas

- **During the past three years, gas production has not increased as rapidly as gas demand.**
- **The result has been a 200 to 300 Bcf/yr shortage of gas.**
- **This is shown on the next chart that shows monthly gas storage, production and demand.**
- **The red level is gas storage levels. The black line is full gas storage.**

US Natural Gas Supply, Consumption & Storage



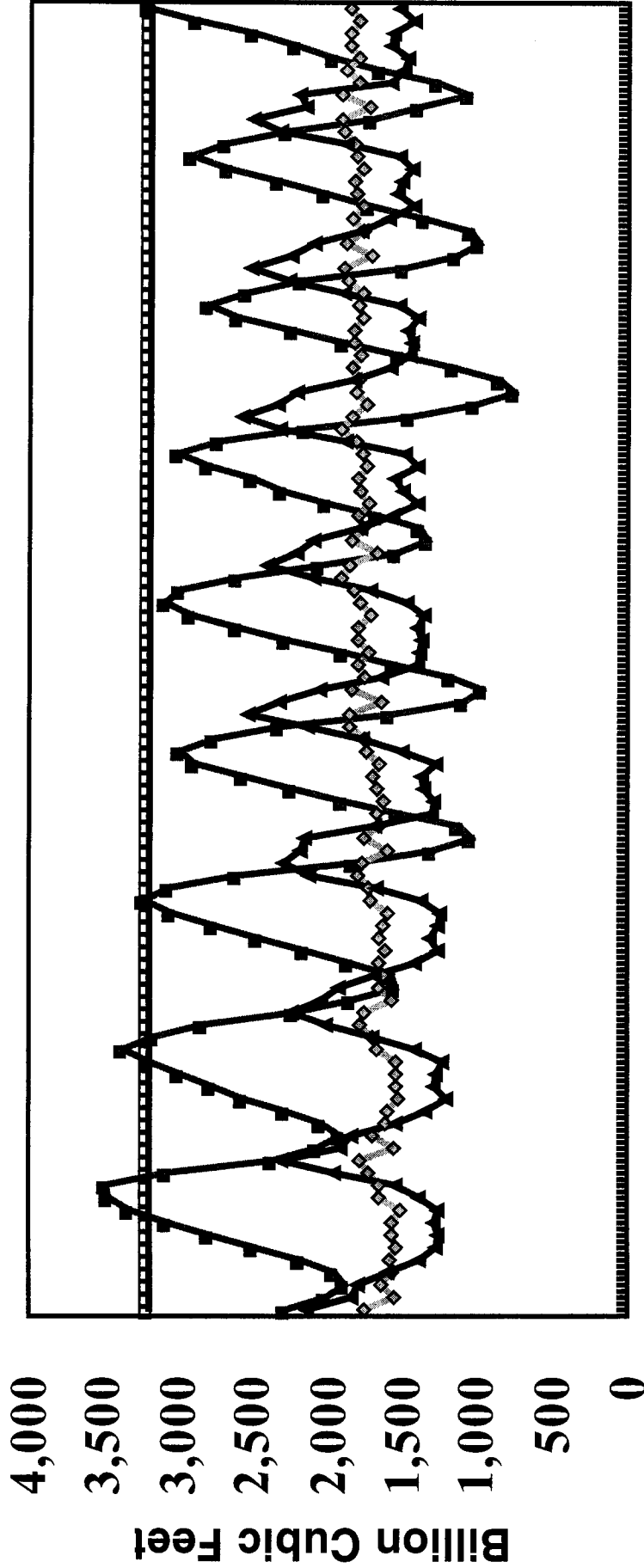
013

Next, why are gas prices lower this year?

Next, why are gas prices lower this year?

- Gas supplies about 1 BCF higher.
- Nuclear generation higher.
- Hydro generation higher.
- Coal stocks higher.
- Rail improving.
- Gas storage levels higher.
- Oil Prices are lower.

US Natural Gas Supply, Consumption & Storage



Month

—■— Storage —◆— Supply —▲— Consumption —■— Full Storage

1999

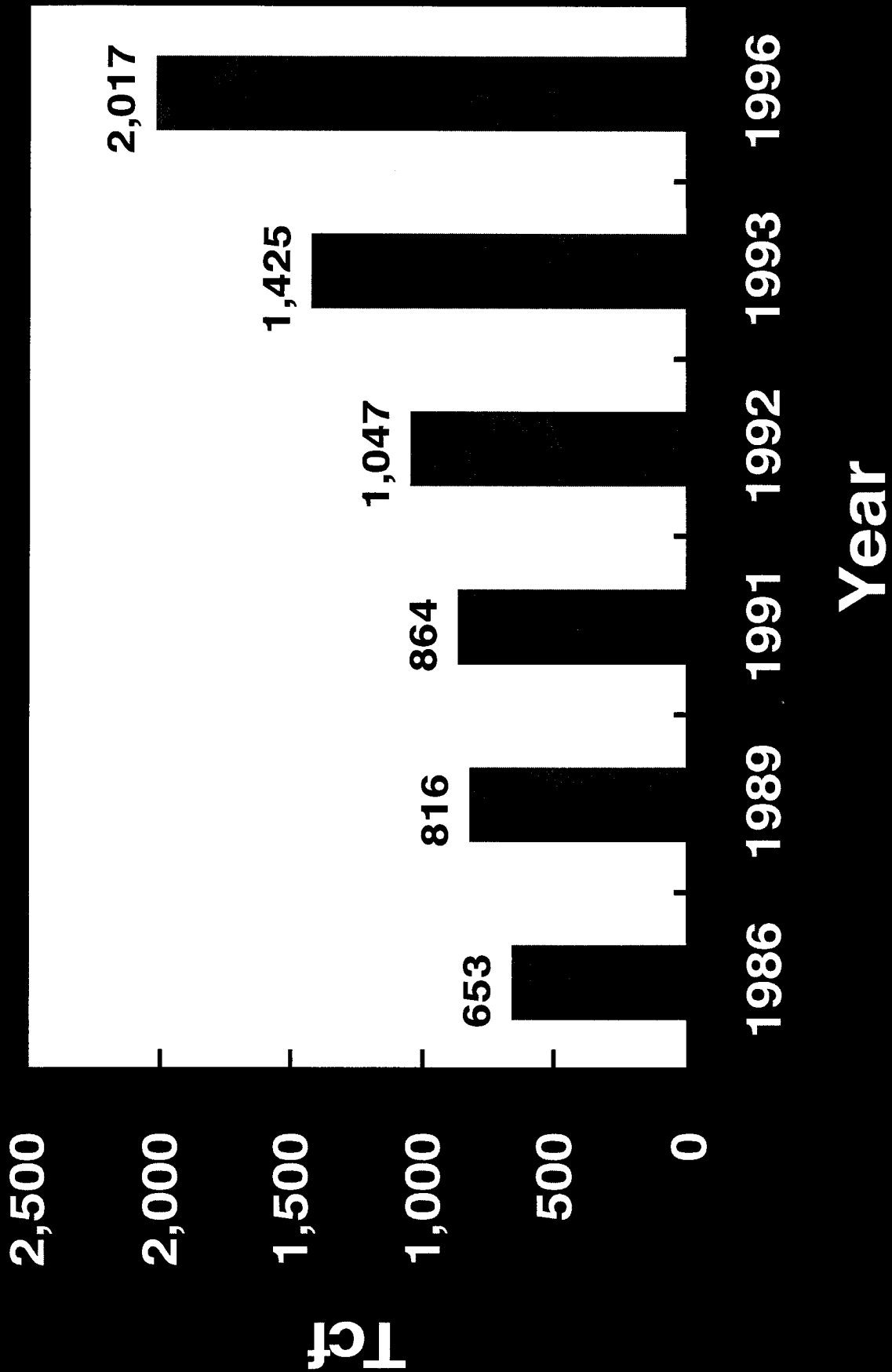
We will enter 1999 with gas storage levels full for the first time in three years. Unless we have weather-related supply interruptions in the fall, gas prices should approach \$1.50 per MMBtu by October. We will be better prepared to meet the expected cooler winter.

Where Are We Going?

Primarily driven by new gas-fired generation, gas demand wants to increase from 22 to 32 Trillion Cubic Feet per Year by 2010.

- **Will There Be Enough Supply?**

GRI Baseline Natural Gas Resource Base



U.S. Resource Base

- If we believe GRI's numbers, the resource base is available.
- Will it be developed and at what price?
- Technology is the biggest factor in determining the long range marginal cost of develop new gas reserves.



Planned Pipeline Expansions

Gulf of Mexico to Onshore

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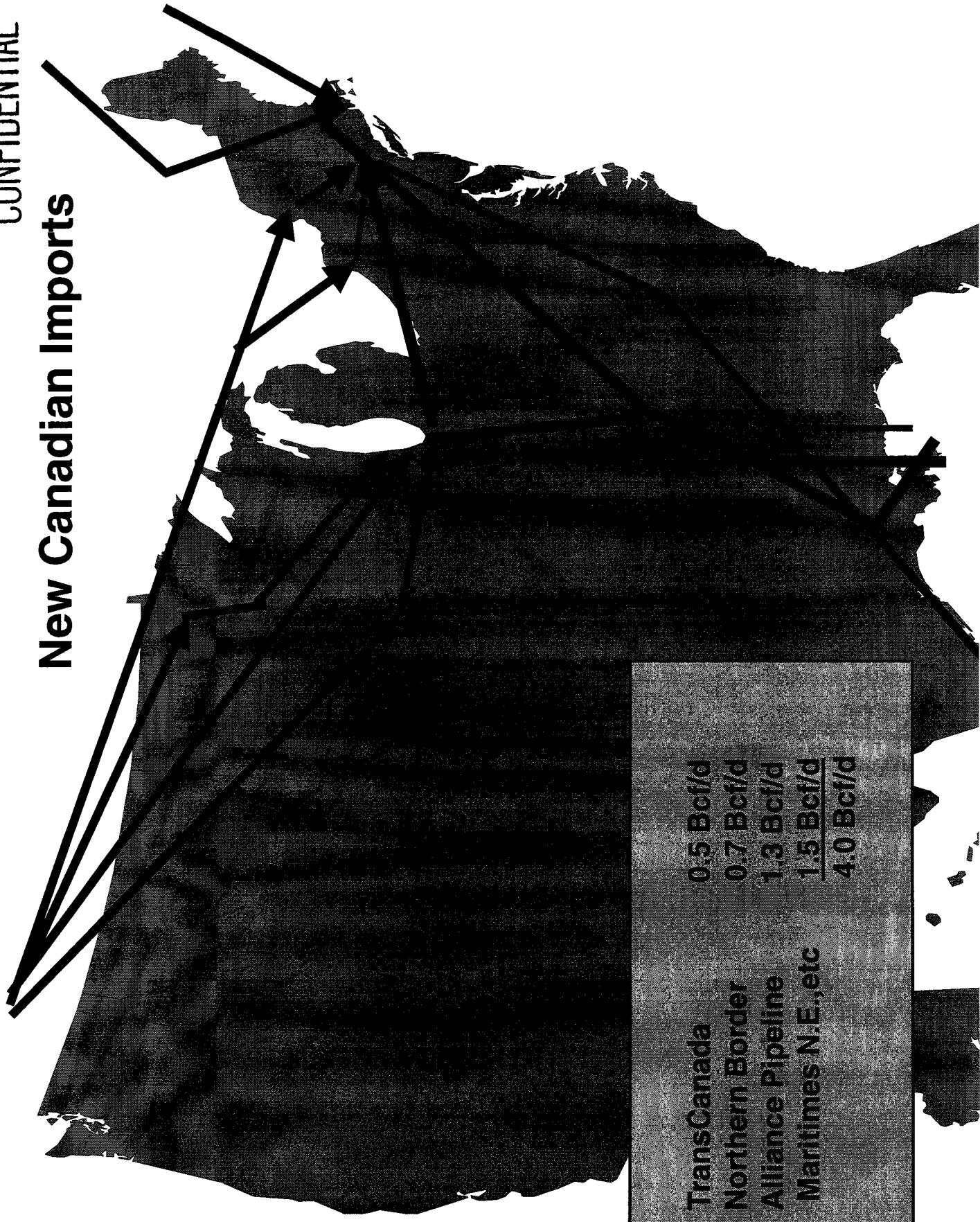
1999

| <u>Project</u> | <u>Cost</u> <u>Million \$</u> | <u>Capacity</u> <u>(Bcf / Day)</u> | <u>Delivery</u> <u>Location</u> | <u>Planned</u> <u>In service</u> |
|---|----------------------------------|---------------------------------------|------------------------------------|-------------------------------------|
| Mobile Bay (Transco) | \$172 | 0.35 | Mobile Bay | Mid-1998 |
| Destin | \$308 | 1.00 | Meridian, MS | Mid-1998 |
| Nautilus | \$120 | 0.60 | St. Mary's Parish, LA | Nov - 1997 |
| DIGS | \$54 | 0.50 | Mobile Bay | Oct - 1997 |
| Discovery | \$188 | 0.60 | La Rosa, LA | Dec - 1997 |
| Green Canyon | \$200 | 0.50 | Offshore, LA | Mid - 1999 |
| ANR | \$52 | 0.46 | Offshore, LA | Mid-1998 |
| Mississippi Canyon | \$25 | 0.30 | Offshore, LAMS | Jan - 1999 |
| Trunkline | \$52 | 0.50 | Offshore, LA | Apr - 1998 |
| Venice Gathering | \$39 | <u>0.33</u> | Offshore, LA | Oct - 1997 |
| Total Capacity Additions | \$1,210 | 4.14 | | |
| Annual BCF | | 1,511 | | |
| <u>% Increase in U.S. Supply</u> | | 7.48% | | |

032

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New Canadian Imports



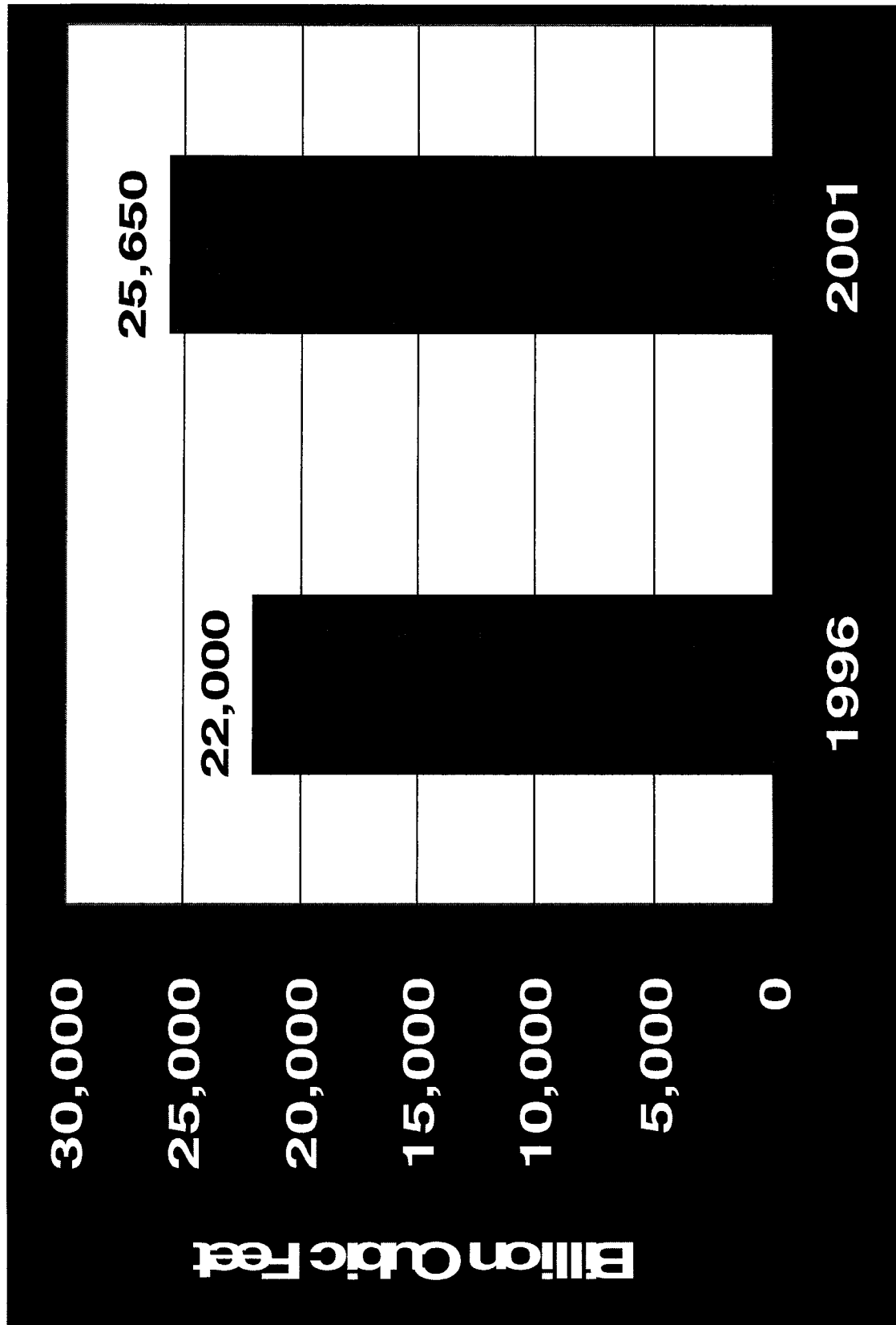
Gas Infrastructure

- **By 2000, Deepwater Gas Projects will increase gas supply by 3 to 4.5 Bcf per day.**
- **By 2001, New Canadian Supplies will increase Supplies by 3 to 5 Bcf per day.**
- **By 2001, Western/Rocky Mountain Expansions will add 1 to 2 Bcf per day.**
- **Net results will be capacity to handle about 25,650 Bcf per year (about 26 Tcf per year).**



Energy to Serve Your World™

Annual Gas Infrastructure



Gas Supply and Pipeline Infrastructure - Year 2001

- **25,650 - 22,000 = 3,650 Bcf per year.**
- **10 Bcf per Year in new gas supplies and infrastructure by 2001.**

Gas Supply - Near Term

- **The supply push should result in lower gas prices.**
- **Producers are responding to the lower gas prices by drilling less.**
- **How long will the surplus gas supplies last?**

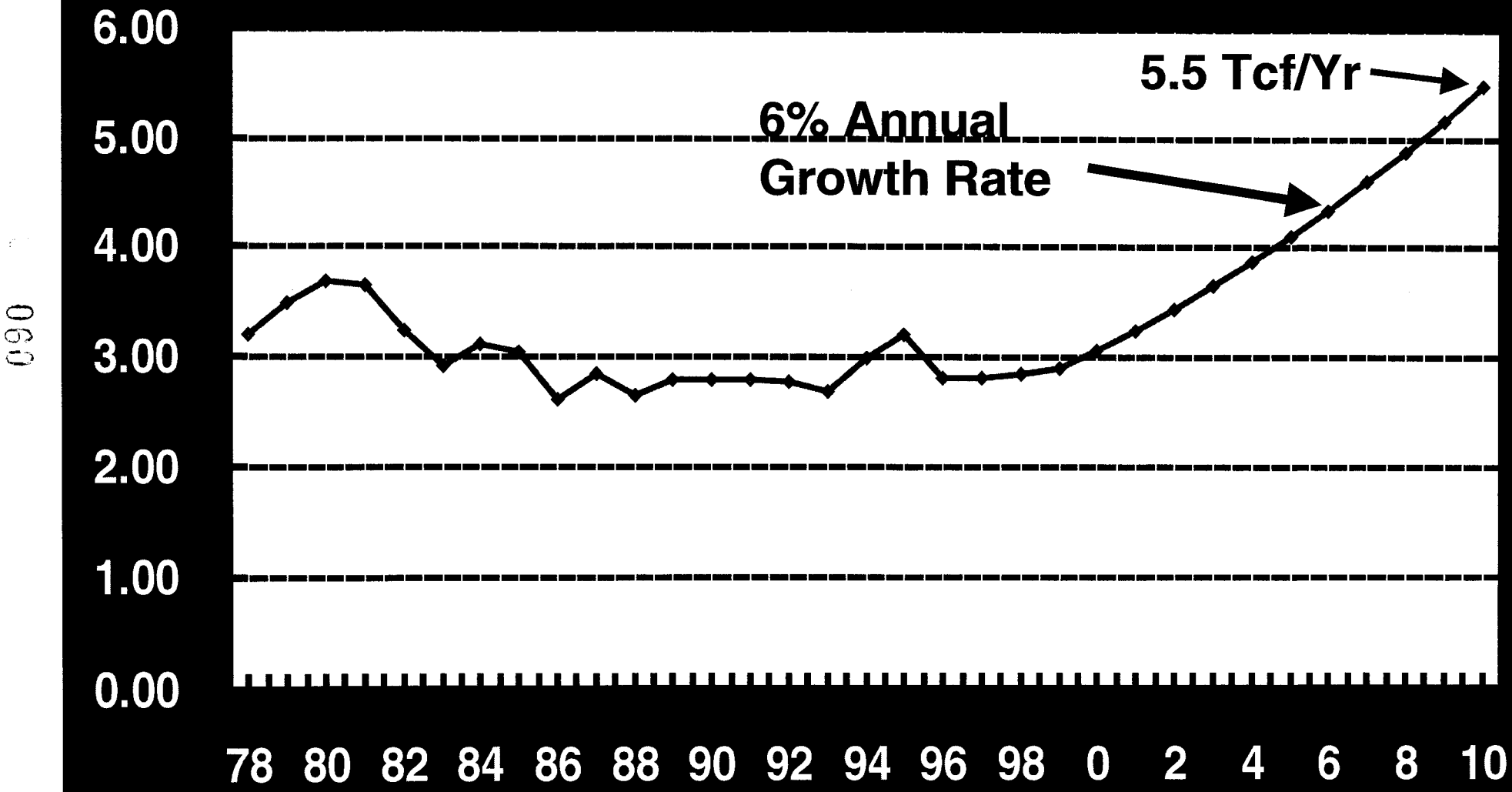
Future Gas Consumption

- **Gas Prices will be very dependent on how long the current surplus capacity will last.**
- **With Industrial, Commercial & Residential growing very slowly, Growth in Gas Consumption will be very dependent on new gas-fired electric generation and co-firing of gas to reduce NOX and Ozone.**

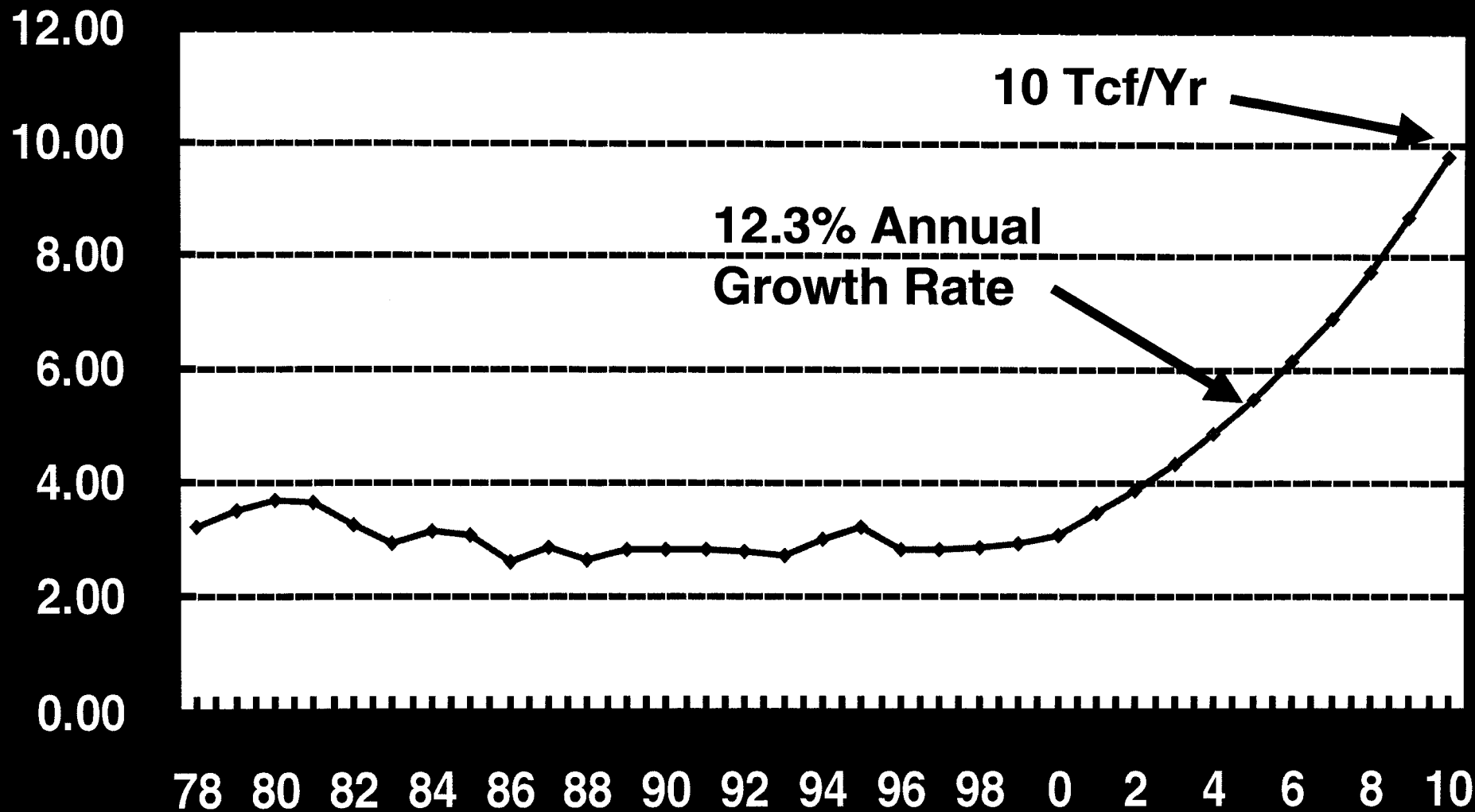
Future Gas Consumption

- **DOE, EVA and GRI are assuming gas-fired consumption will grow at 5 to 7% per year.**
- **However, the rate could be as high as 20% per year. This depends on how fast new generation is added and how quickly co-firing or re-burn takes place. Most likely, it will be somewhere in between.**
- **If we assume a 6% growth rate, the new capacity additions will be “used” by 2005.**

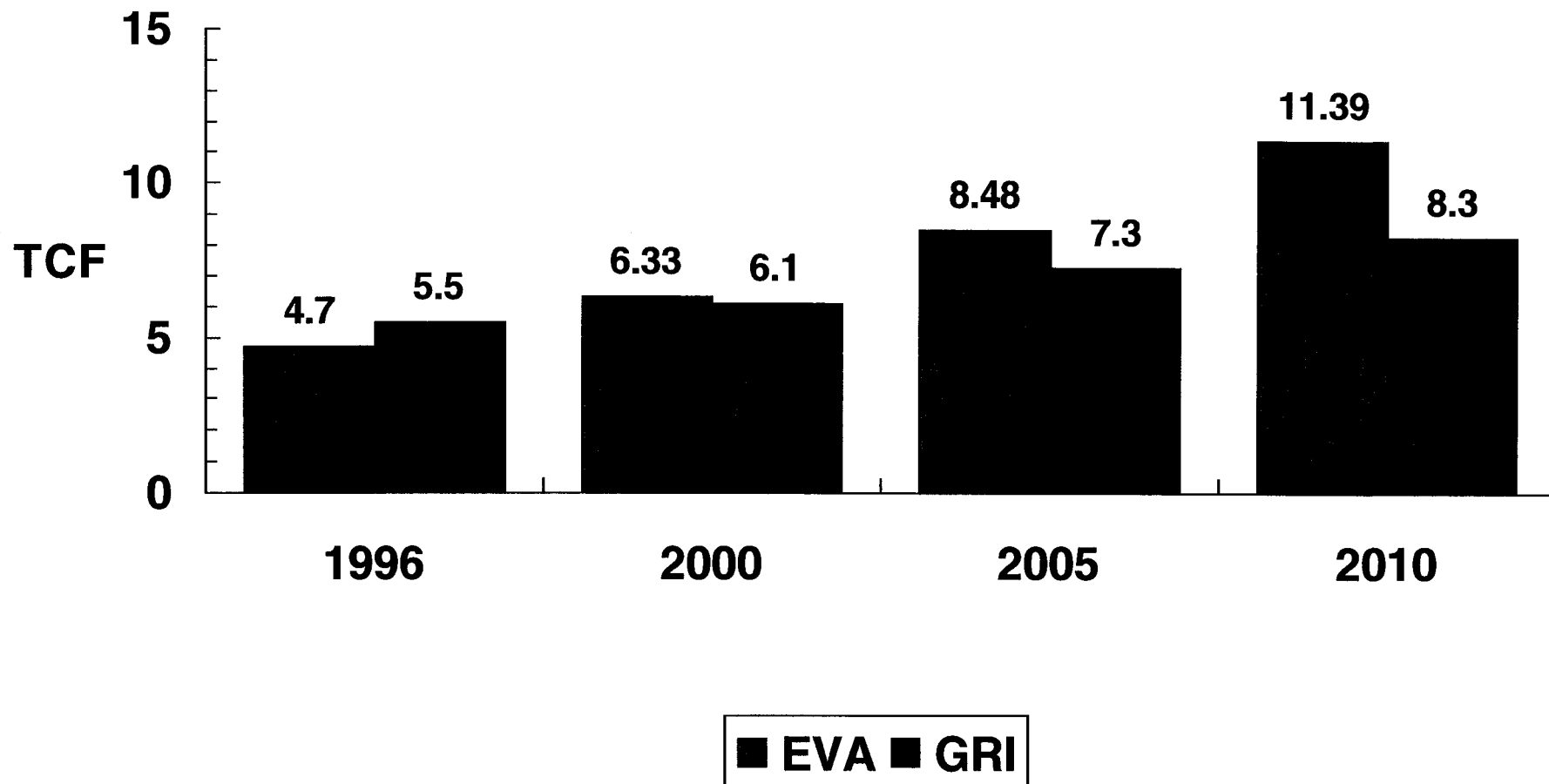
Annual Natural Gas Consumption Electric Generation - GRI Forecast



Annual Natural Gas Consumption Electric Generation

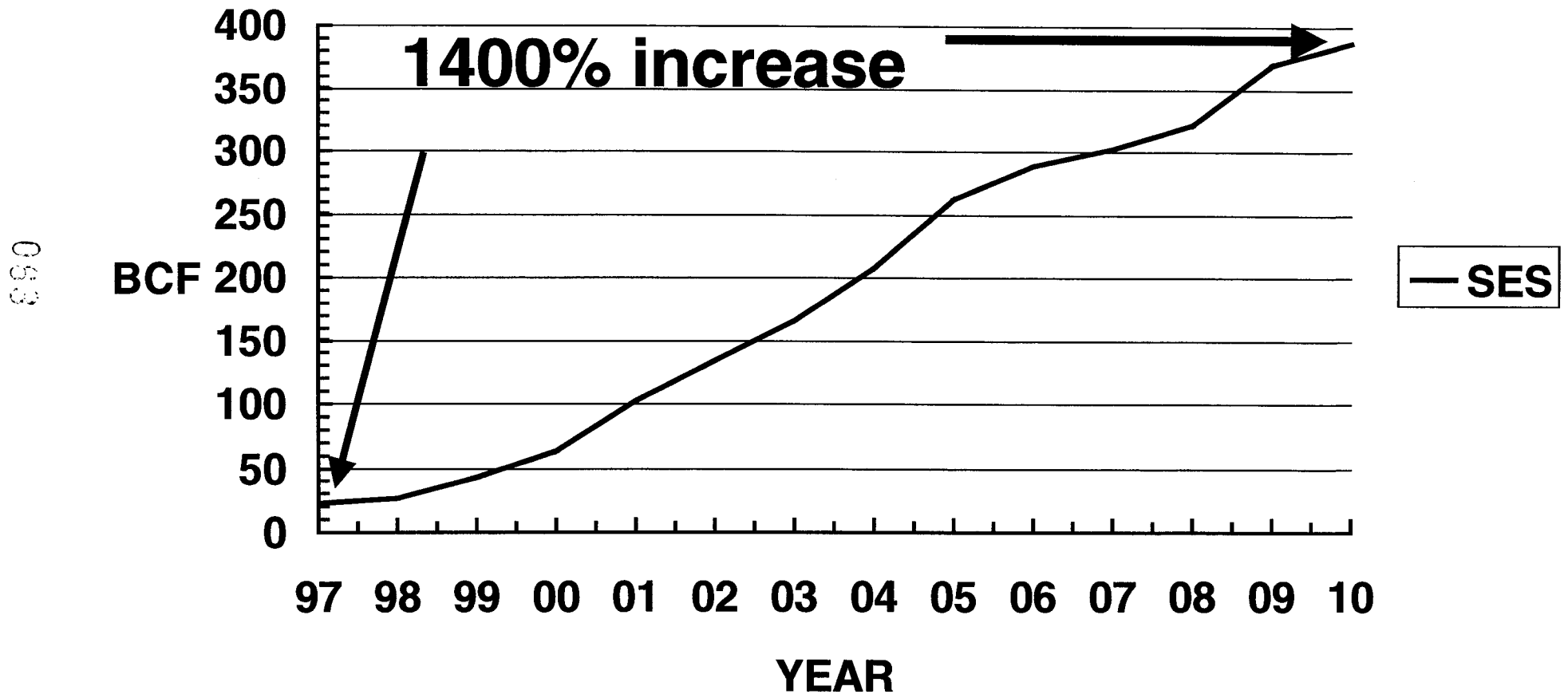


TOTAL US GAS USAGE FOR POWER GENERATION Without Kyoto or PM 2.5



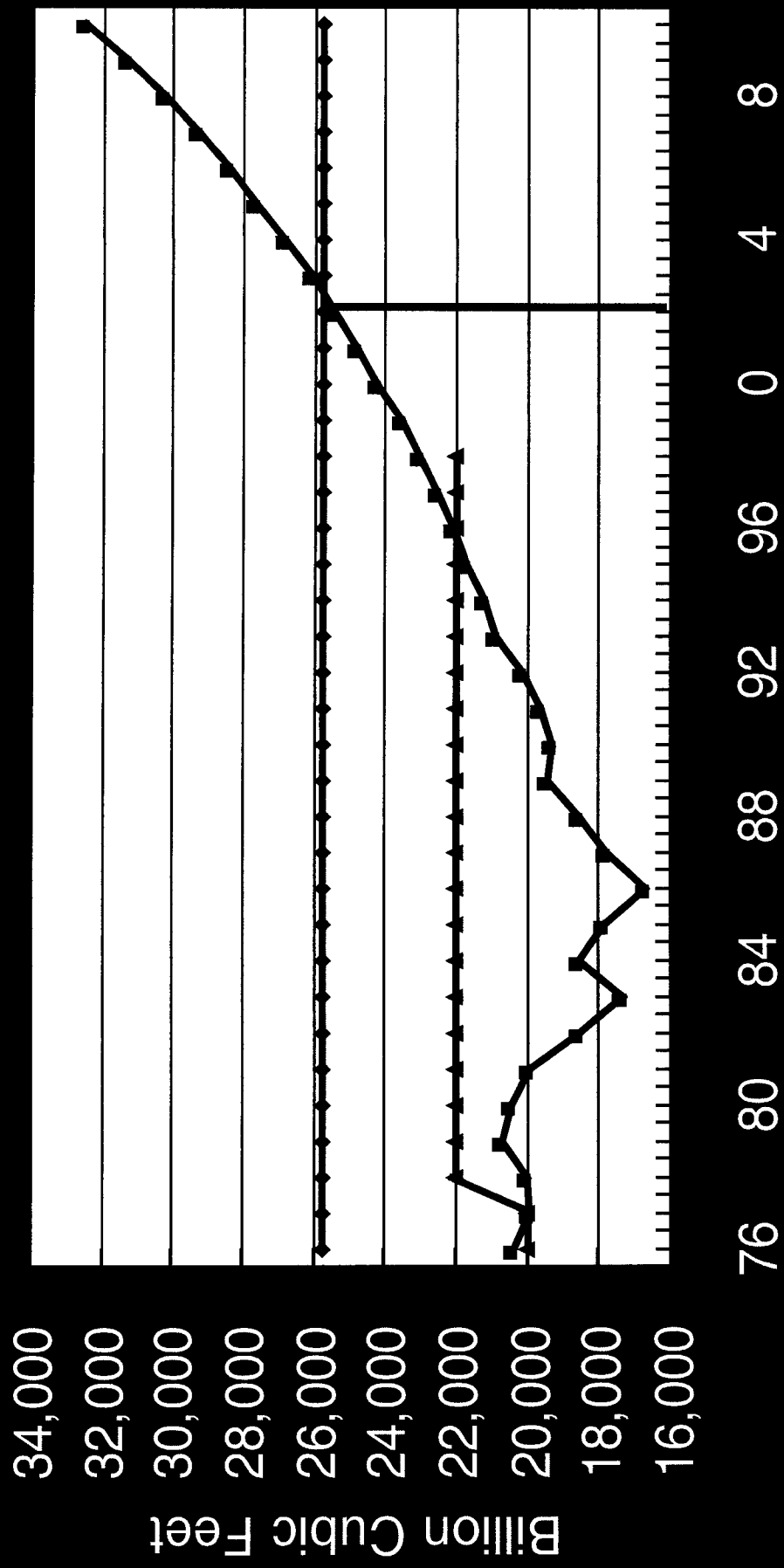
062

Southern Co.'s Electric System Gas Consumption



Total U.S. Gas Consumption

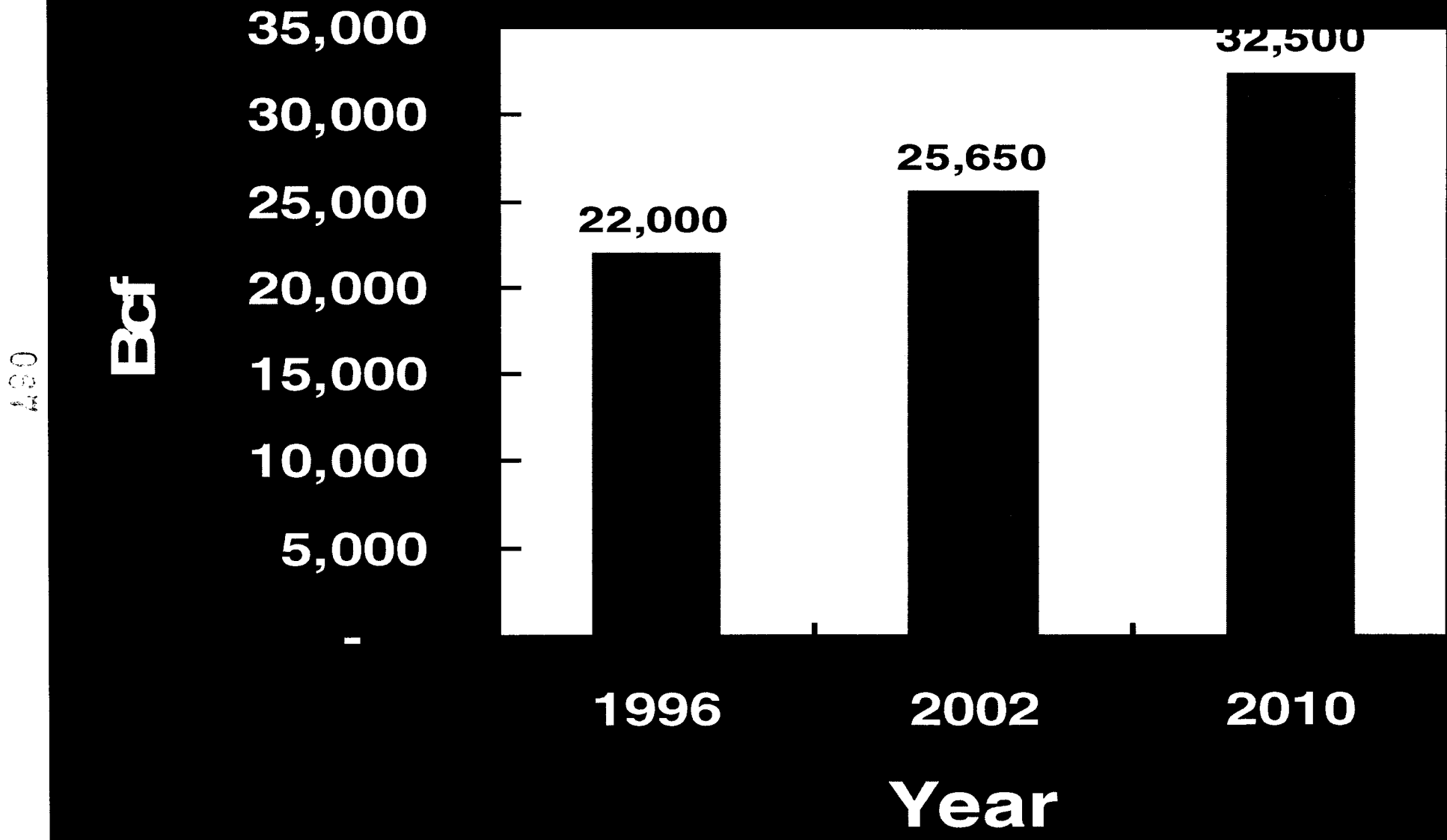
Actual & Forecast Planned Capacity Current Capacity



At this time, we are assuming that the new capacity will be used sometime between 2002 and 2004. However, the industry should respond to the increasing demand by continuing to expand. Therefore, in our forecast, we assume that demand will cross the available supply line around 2005.

Next, because of the lower oil and gas prices we are experiencing today, drilling is beginning to slow. We have seen a drop of 10% in onshore drilling activity. Therefore, we are forecasting that prices will not be as low as some forecasters such as EVA or GRI.

Actual & Estimated Gas Consumption or Infrastructure Capacity



32,500 - 26,650 =

5,850 Bcf per year

or

16 Bcf per day

Does Not Include PM 2.5

or Kyoto Treaty

Gas by Default Analysis

- **US Energy Consumption Grows at 1.3% per year.**
- **No new hydro.**
- **No new Nuclear.**
- **No new Coal.**
- **Limited Re-newables i.e. Solar etc.**
- **Growth is mostly Gas by Default.**



U.S. Energy Consumption in Quadrillion Btu

| | Actual & Forecast | | | | | | 1996 to 2010 Estimated Annual Growth Rate |
|---------------------|------------------------------|-------------------|--------------------|-------------------|--------------------|-------------------|--|
| | <u>1990</u> | % of Total | <u>1996</u> | % of Total | <u>2010</u> | % of Total | |
| Coal | 19,101 | 23.44% | 20,498 | 22.80% | 21,848 | 20.57% | 0.47% |
| Natural Gas | 19,296 | 23.68% | 22,560 | 25.10% | 32,500 | 30.60% | 3.15% |
| Petroleum | 33,553 | 41.18% | 35,864 | 39.90% | 41,225 | 38.81% | 1.07% |
| Nuclear | 6,579 | 8.07% | 7,168 | 7.97% | 6,853 | 6.45% | -0.31% |
| Hydro | 2,946 | 3.62% | 3,798 | 4.23% | 3,800 | 3.58% | 0.00% |
| Other | <u>0</u> | 0.00% | <u>0</u> | 0.00% | <u>0</u> | 0.00% | |
| | 81,475 | | 89,888 | | 106,226 | | 1.30% |
| | | | 1.72% | | | | |
| Fossil Fuels | 71,950 | 88.31% | 78,922 | 87.80% | 95,573 | 89.97% | |

Actual #'s from DOE/EIA Monthly Energy Review

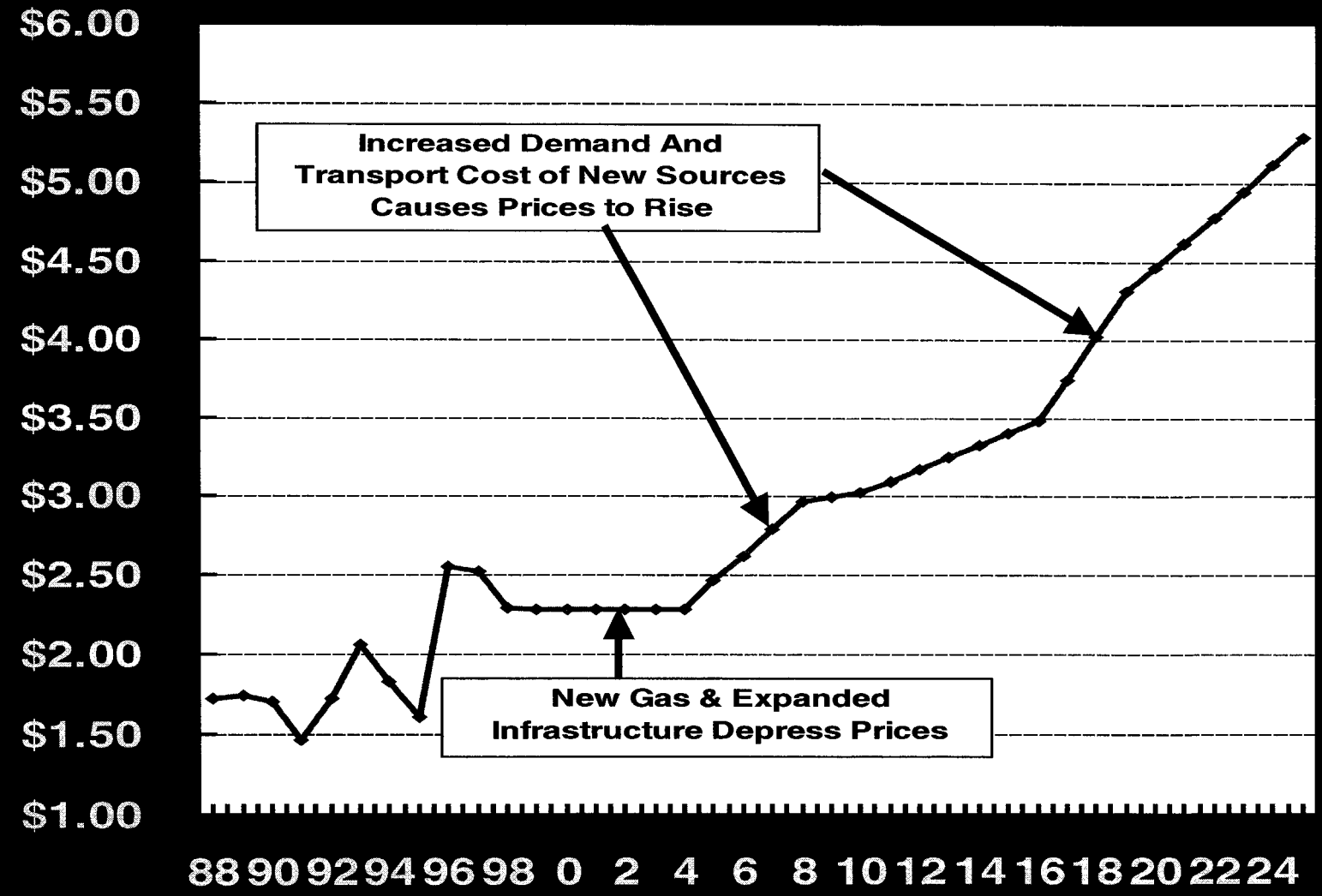
CO2 conversion factors from Form EIA-1605 (1996), Appendix B

Future Numbers are trend projections of the growth rate experienced from 1992 to 1996

Natural Gas Price Forecast

1998 System Forecast - SNG Louisiana Gas Prices

Delivered to SNG - Nominal \$/MMBtu



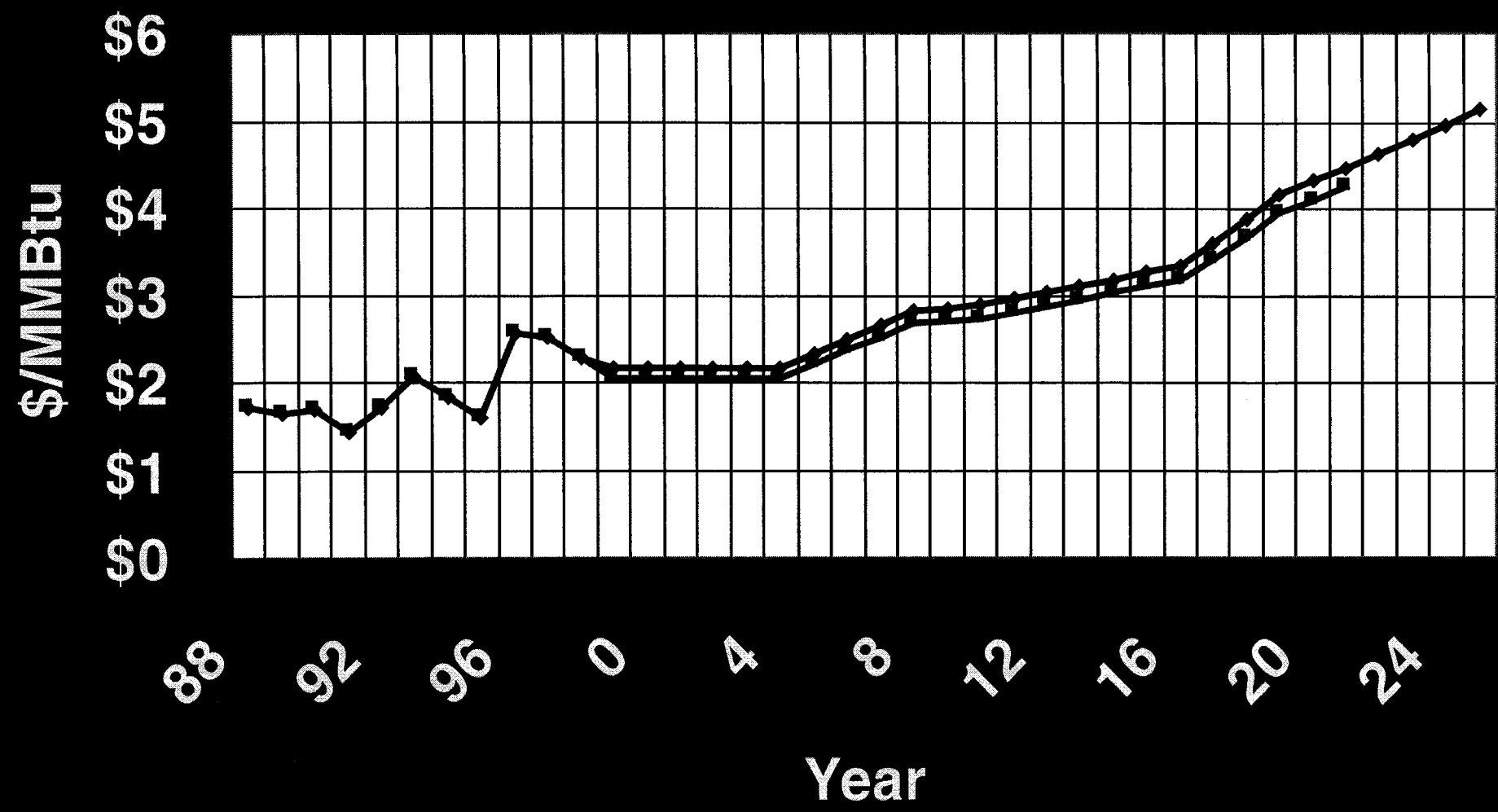
Increased Demand And Transport Cost of New Sources Causes Prices to Rise

New Gas & Expanded Infrastructure Depress Prices

Year

071

SCS 1997 vs. 1998 Gas Forecast



—◆— 1998 Gas Forecast —■— 1997 Gas Forecast

0723

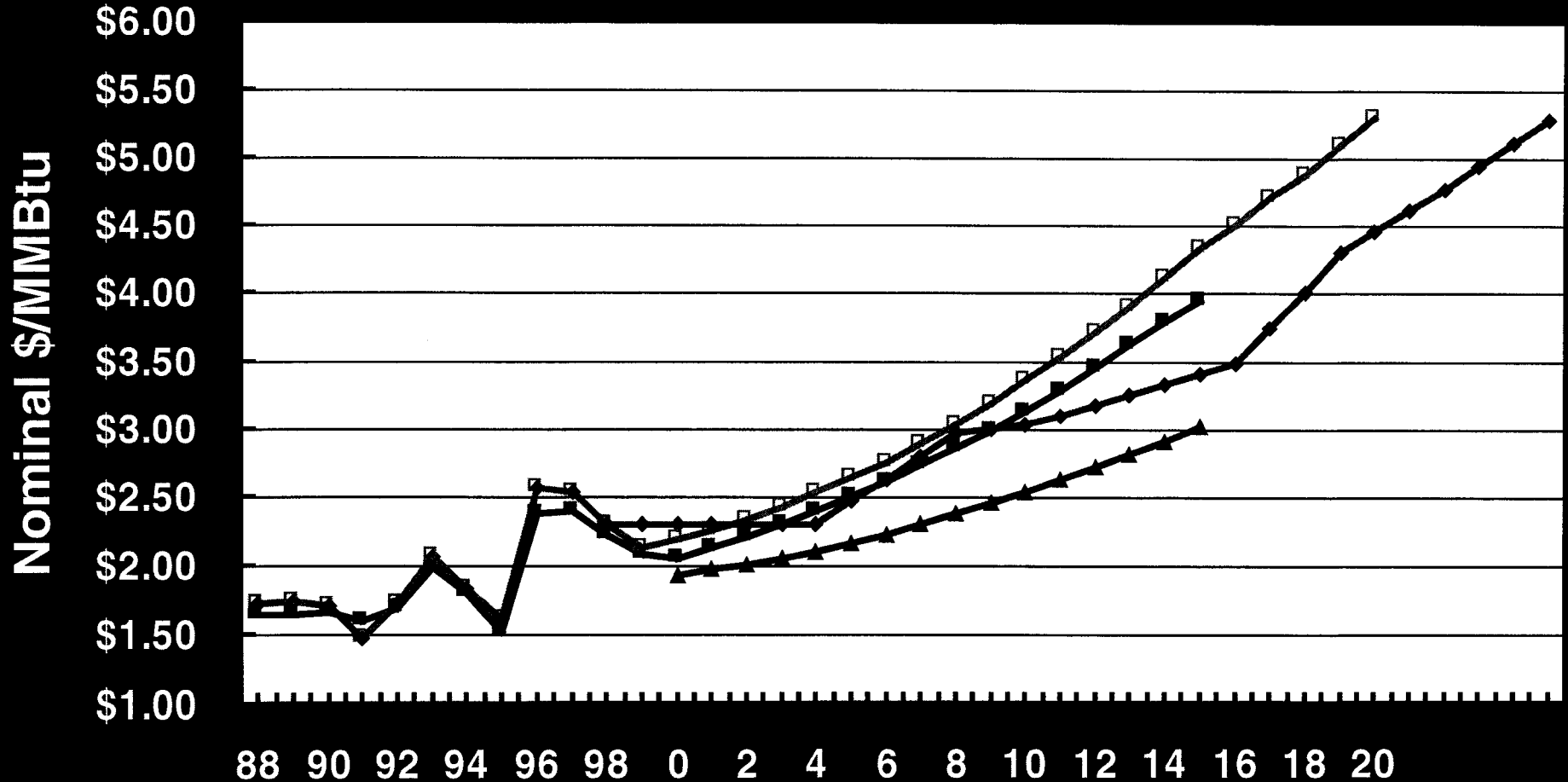
SCS 1998 Gas Price Forecast Baseload Plants

- **Gas Price Forecast is about 5% higher than last year.**
- **Price curve has the same shape.**
- **Price increases in 2004 due to demand push.**
- **Demand push lasts for four years until new pipelines and productions flat prices again.**
- **Another demand push occurs in 2016.**

Natural Gas Price Forecasts

SCS Forecast, DOE/EIA Annual Outlook, GRI Baseline & EVA

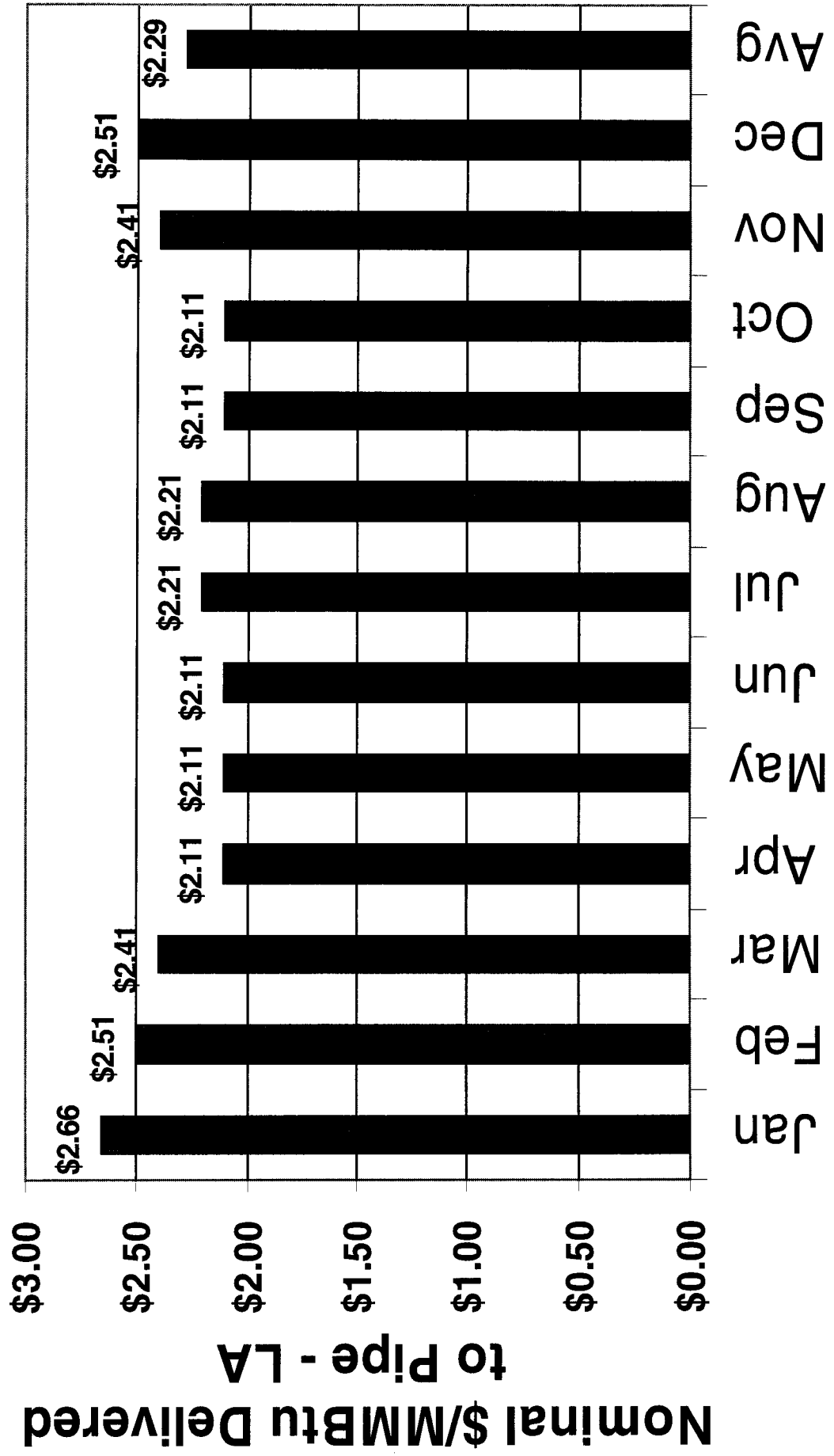
DOE



DOE/EIA Avg Wellhead
 GRI - Avg Acquisition Price

1998 SCS - FOB SNG Louisiana
 EVA Forecast FOB Henry Hub

Monthly Forecasted Natural Gas Prices

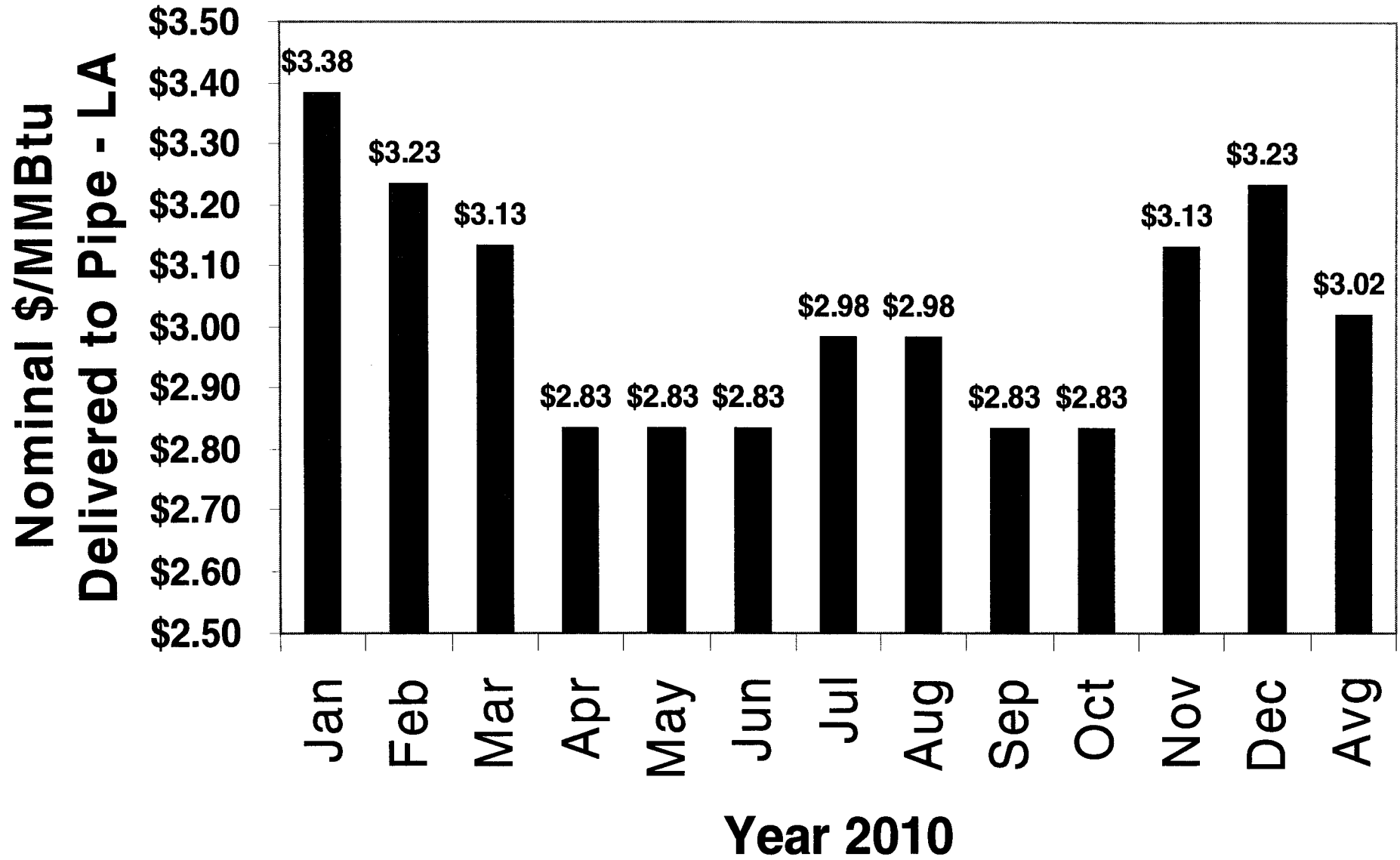


Year 2000

Baseload Gas

We assume a difference pricing structure for baseload facilities. For instance, in 2001, we are assuming a level annual price of \$2.156 per MMBtu - delivered into SNG - Louisiana, for baseload generation. This takes into account forward buying to reduce spikes and buying on down dips in prices. This is an aggressive goal. Spot Month Prices are expected to average \$2.29 per MMBtu during 2001. This allows us to credit baseload facilities the advantage afforded by forward buying as opposed to taking what the market offers the day it is needed.

Monthly Forecasted Natural Gas Prices



0.00

Gas Transportation

- Limit CT expansions to 1,000 MW on Transco and 1,000 MW on SNG due to limited amount of interruptible capacity available.

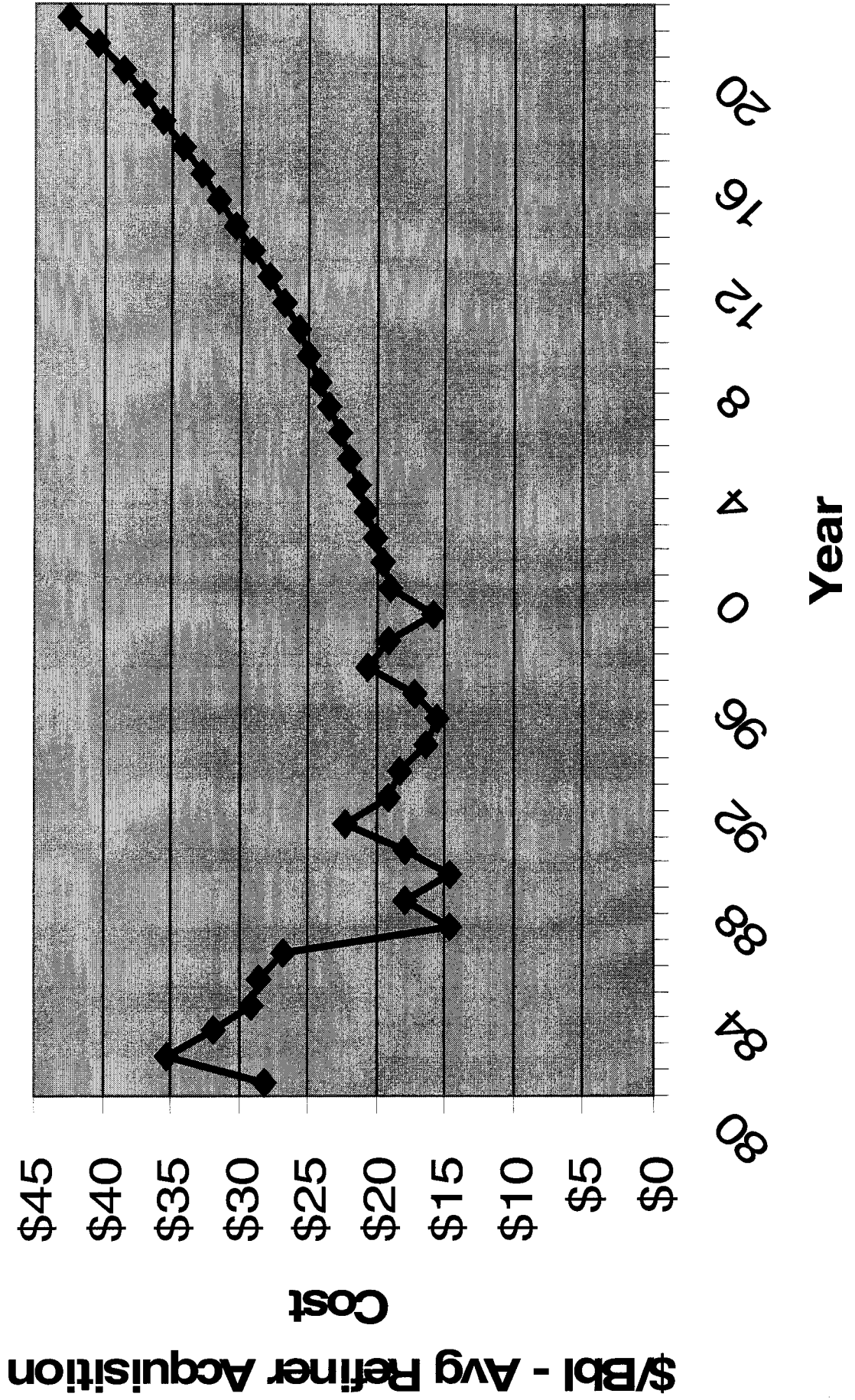
Gas Transportation

- Since area pipelines are fully subscribed, assume that pipelines must be expanded to accommodate new gas-fired combined cycle generation.
- Assume that 300,000 MMBtu per day of expansion can occur on Transco and SNG at maximum Tariff rates.

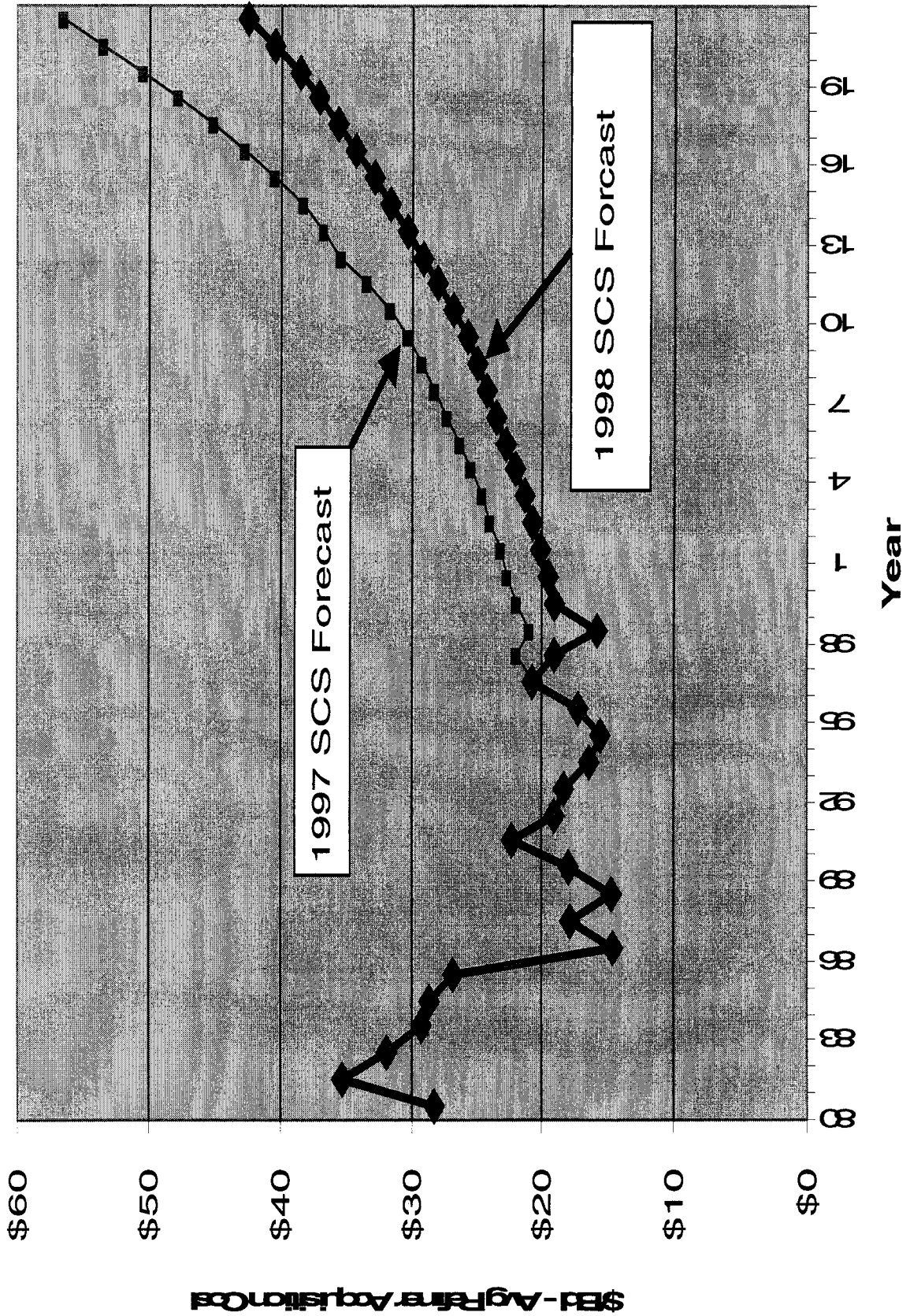
Gas Transportation

- Above 300,000 MMBtu/day, Transco and SNG will require higher firm transportation rates to expand pipelines.
- Assume that 5 to 10 days of storage capacity is purchased for new generation. This will cover cost of daily balancing and backup supplies.

Crude Oil Prices - Actual & Forecast



Crude Oil Prices - Actual & Forecast



**LATE-FILED EXHIBIT 2
DEPOSITION OF WILLIAM F. POPE**

TRANSMISSION STUDY SUMMARIES

088

Part 2 of 4
DN 06499-99
5/24/99

**GULF - TRANSMISSION COST ASSOCIATED WITH SELF-BUILD OPTIONS
FOR ECONOMIC EVALUATION PURPOSES**

DANIEL OPTION

| | Cost (millions,\$98) |
|---|----------------------------------|
| Transmission Improvement to Coincide with Daniel Addition | |
| N. Brewton - Shoal River 500kv line, operate at 230kv, 60mi | 60.0 |
| Shoal River - Laguna 230kv line, 73 mi (Conversion of existing 115kv line & AEC tie) | 46.5 |
| Daniel CC connection and substation(includes GSU) | 4.1 |
| Allocation of Incremental Transmission Cost Assumption: | |
| 41.88% of Ellicot - N. Brewton 500kv, 60mi, operate at 230kv(est. total = \$57.5M)* | 24.1 |
| 8.88% of Daniel - Big Creek 500kv, 21.5mi,operate at 230kv(est. total = \$24.2M)** | 2.1 |
| TOTAL | 136.8 |

ASSUMPTIONS:

Phase Shifter In-service

Barry - N. Brewton 500kv line in-service for 2001s

Silverhill - Brentwood 230kv line in-service for 2000s

Barry - Crist 230kv at 100°C operation for 2000s

APC local area transmission problems related to the Barry - Bay Minette and
the Barry - Deurwagr 115kv lines are solved.

Gulf budgeted transmission improvements for 1998 - 2001 for local area requirements are in-service.

Glendale - Glendale tap 115kv line improvement in-service for 2001s

Short Circuit and Stability costs are assumed to not be significant to impact decision, hence they are not included.

NOTES:

Line construction lead time most likely will not allow the above improvements to be in-service to match the in-service date of the Daniel CC, then under certain contingency situations GULF may be required to institute combinations of 1) Back off generation at Daniel, and 2) Utilize operating procedures in APC and GULF, and possibly 3) Drop load.

* Based on APC's capital budget

** Based on APC and MPC budget PE

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3/6/1998;REV 3/10/98

GULF - TRANSMISSION COST ASSOCIATED WITH SELF-BUILD OPTIONS FOR ECONOMIC EVALUATION PURPOSES

CRIST COGEN OPTION

| | Cost (millions,\$98) | | Cost (millions,\$98) |
|---|----------------------------------|---------|----------------------------------|
| Transmission Improvement to Coincide With Crist Cogen Addition | | | |
| Crist cogen connection and substation(includes GSU) | 17.0 | | 17.0 |
| Shoal River - Laguna 230kv line, 73 mi (Conversion of existing 115kv line & AEC tie) | 46.5 | (1) (2) | 0.0 |
| Crist - Shoal River 230kv line, 45mi | 20.3 | (1) (2) | 0.0 |
| Ellicot - Crist #2 230kv(or similar line), 60mi | 36.0 | (2) | 0.0 |
| Allocation of Incremental Transmission Cost Assumption: | 0.0 | | 0.0 |
| TOTAL | 119.8 | | 17.0 |

ASSUMPTIONS:

Phase Shifter In-service

Barry - N. Brewton 500kv line in-service for 2001s

Silverhill - Brentwood 230kv line in-service for 2000s

Barry - Crist 230kv at 100°C operation for 2000s

APC local area transmission problems related to the Barry - Bay Minette and the Barry - Deurwagr 115kv lines are solved.

Gulf budgeted transmission improvements for 1998 - 2001 for local area requirements are in-service.

Glendale - Glendale tap 115kv line improvement in-service for 2001s

Short Circuit and Stability costs are assumed to not be significant to impact decision, hence they are not included.

NOTE:

Line construction lead time most likely will not allow the above improvements to be in-service to match the in-service date of the Crist cogen, then under certain contingency situations GULF may be required to institute combinations of 1) Back off generation at Crist, and 2) Utilize operating procedures in APC and GULF, and possibly 3) Drop load.

(1) Could be avoided if willing to take risk until future additional generation added at L. Smith or if generation added at L. Smith first.

(2) Economic analysis to be run with and without this cost where additional risks are assumed.

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3/13/98

**GULF - TRANSMISSION COST ASSOCIATED WITH SELF-BUILD OPTIONS
FOR ECONOMIC EVALUATION PURPOSES**

L. SMITH CC OPTION

| | Cost (millions,\$98) | Cost (millions,\$98) |
|--|--------------------------|--------------------------|
| Transmission Improvement to Coincide With L. Smith Addition | | |
| L. Smith CC connection and substation(includes GSU) | 4.6 | 4.6 |
| Future Transmission Improvement(by 2003) | | |
| Ellicot - Crist #2 230kv(or similar line), 60mi | 36.0 | (1) 0.0 |
| Allocation of Incremental Transmission Cost Assumption: | 0.0 | 0.0 |
| TOTAL | 40.6 | 4.6 |

ASSUMPTIONS:

Phase Shifter In-service

Barry - N. Brewton 500kv line in-service for 2001s

Silverhill - Brentwood 230kv line in-service for 2000s

Barry - Crist 230kv at 100°C operation for 2000s

APC local area transmission problems related to the Barry - Bay Minette and
the Barry - Deurwagr 115kv lines are solved.

Gulf budgeted transmission improvements for 1998 - 2001 for local area requirements are in-service.

Glendale - Glendale tap 115kv line improvement in-service for 2001s

Short Circuit and Stability costs are assumed to not be significant to impact decision, hence they are not included.

NOTE:

Assumes GULF continues to meet their capacity needs with next generation added at L. Smith and not Crist or west of Crist

(1) Economic analysis to be run with and without this cost where additional risks are assumed.

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3/13/98

Pool #2

**GULF - TRANSMISSION COST ASSOCIATED WITH SELF-BUILD OPTIONS
FOR ECONOMIC EVALUATION PURPOSES**

L. SMITH CT OPTION (1)

| | Cost (millions,\$98) | Cost (millions,\$98) |
|--|----------------------------------|----------------------------------|
| Transmission Improvement to Coincide With L. Smith Addition | | |
| L. Smith CC connection and substation(includes GSU) | 4.6 | 4.6 |
| Future Transmission Improvement(by 2003) | | |
| Ellicot - Crist #2 230kv(or similar line), 60mi | 36.0 | (2) 0.0 |
| Allocation of Incremental Transmission Cost Assumption: | 0.0 | 0.0 |
| TOTAL | 40.6 | 4.6 |

ASSUMPTIONS:

Phase Shifter In-service

Barry - N. Brewton 500kv line in-service for 2001s

Silverhill - Brentwood 230kv line in-service for 2000s

Barry - Crist 230kv at 100°C operation for 2000s

APC local area transmission problems related to the Barry - Bay Minette and
the Barry - Deurwagr 115kv lines are solved.

Gulf budgeted transmission improvements for 1998 - 2001 for local area requirements are in-service.

Glendale - Glendale tap 115kv line improvement in-service for 2001s

Short Circuit and Stability costs are assumed to not be significant to impact decision, hence they are not included.

NOTE:

Assumes GULF continues to meet their capacity needs with next generation added at L. Smith and not Crist or west of Crist

(1) Assumes the new CTs will be run, out of economic dispatch if necessary, when L. Smith 1 or 2
are out of service and GULF load is higher than 90% of peak.

(2) Economic analysis to be run with and without this cost where additional risks are assumed.

glfsmCT\$.xls

3/13/98

GULF RFP Bid Evaluations

Confidential

CONFIDENTIAL

Transmission Grid and Connections Cost

(98\$, \$m)

| | (Sithe) | | | | | | | | | (Polsky) | | | | | | | | | |
|----------|---------|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|
| Daniel | 1064 | | | | | | | | | 1064 | | | | | | | | | |
| Barry | 1064 | | | | | | | | | 1064 | | | | | | | | | |
| Theo | 205 | | | | | | | | | 205 | | | | | | | | | |
| Smith | 0 | | | | | | | | | 0 | | | | | | | | | |
| Sithe | 530 | | | | | | | | | 0 | | | | | | | | | |
| Polsky-S | 0 | | | | | | | | | 177 | | | | | | | | | |
| Polsky-M | 0 | | | | | | | | | 213 | | | | | | | | | |
| Sonat | 0 | | | | | | | | | 0 | | | | | | | | | |
| TOTAL | 2863 | | | | | | | | | 2723 | | | | | | | | | |

| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|--------------|------------|------------|------------|------------|------------|------------|--------------|-------------|------------|------------|------------|------------|------------|------------|-------------|
| Recond. Barry - Crist w 1351ACSS | | | | | | | | | | | | | | | | |
| Recond. Barry - Chickasaw with 2-1033ACSF | | | | 6.5 | | | | | | | | | | | | |
| Recond. Chickasaw - S. Hill #1 w 1351ACSS | 6.0 | | | | | | | | | | | | | | | |
| Recond. Chickasaw - S. Hill #2 w 1351ACSS | 6.4 | | | | | | | | | | | | | | | |
| Recond. Big Crk. - Chickasaw w 1351ACSS | 2.1 | | | | | | | | | | | | | | | |
| Recond. Blakely Is - Spanish Fl. w 795ACSS | | | | | | | | | | | | | | | | |
| Construct Shoal Rvr. - Laguna 230 or comparable ft. | 46.0 | | | | | | | | 46.0 | | | | | | | |
| Construct Ellicot - Crist 230kv 1351SSAC,60m | | | | | | | | | | | | | | | | |
| Construct Crist - Shoal River 230kv 1351SSAC,42m | | | | | | | | | | | | | | | | |
| Construct N. Brewton- Shoal River 230, 75% Compensate | 45.6 | | | | | | | | 45.6 | | | | | | | |
| Polsky Connection - Santa Rosa | | | | | | | | | 6.2 | | | | | | | |
| Polsky Connection - Mobile | | | | | | | | | 1.9 | | | | | | | |
| Stability | | | | | | | | | | | | | | | | |
| Short Circuit | | | | | | | | | | | | | | | | |
| TOTAL | 106.1 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 99.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRAN TOTAL | | | | | | | | 112.6 | | | | | | | | 99.7 |
| TOTAL (Nominal Dollars for RevReq) | 116.6 | 0.0 | 0.0 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 109.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | (Sonat) | | | | | | | | | (Smith) | | | | | | | | | |
|----------|---------|--|--|--|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|
| Daniel | 1064 | | | | | | | | | 1064 | | | | | | | | | |
| Barry | 1064 | | | | | | | | | 1064 | | | | | | | | | |
| Theo | 205 | | | | | | | | | 205 | | | | | | | | | |
| Smith | 0 | | | | | | | | | 532 | | | | | | | | | |
| Sithe | 0 | | | | | | | | | 0 | | | | | | | | | |
| Polsky-S | 0 | | | | | | | | | 0 | | | | | | | | | |
| Polsky-M | 0 | | | | | | | | | 0 | | | | | | | | | |
| Sonat | 500 | | | | | | | | | 0 | | | | | | | | | |
| TOTAL | 2833 | | | | | | | | | 2865 | | | | | | | | | |

| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|---|-------------|------------|------------|------------|------------|------------|------------|--------------|-------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Recond. Barry - Crist w 1351ACSS | 7.2 | | | | | | | | 7.2 | | | | | | | | | | | | | | | |
| Recond. Barry - Chickasaw with 2-1033ACSF | 6.5 | | | | | | | | 6.5 | | | | | | | | | | | | | | | |
| Recond. Chickasaw - S. Hill #1 w 1351ACSS | 6.0 | | | | | | | | 6.0 | | | | | | | | | | | | | | | |
| Recond. Chickasaw - S. Hill #2 w 1351ACSS | 6.4 | | | | | | | | 6.4 | | | | | | | | | | | | | | | |
| Recond. Big Crk. - Chickasaw w 1351ACSS | 2.1 | | | | | | | | 2.1 | | | | | | | | | | | | | | | |
| Recond. Blakely Is - Spanish Fl. w 795ACSS | 2.4 | | | | | | | | 2.4 | | | | | | | | | | | | | | | |
| Construct Shoal Rvr. - Laguna 230 or comparable ft. | | | | | | | | | | | | | | | | | | | | | | | | |
| Construct Ellicot - Bellview 230kv 1351SSAC,60m | | | | | | | | | | | | | | | | | | | | | | | | |
| Construct Crist - Shoal River 230kv 1351SSAC,42m | | | | | | | | | | | | | | | | | | | | | | | | |
| Construct N. Brewton- Shoal River 230, 75% Compensate | | | | | | | | 45.6 | | | | | | | | 45.6 | | | | | | | | |
| Construct Sonat - Laguna 230kv 1351SSAC | 26.0 | | | | | | | | 3.1 | | | | | | | | | | | | | | | |
| *Smith 532* Improvements | | | | | | | | | | | | | | | | | | | | | | | | |
| Smith Connection | | | | | | | | | 2.2 | | | | | | | | | | | | | | | |
| Sonat Connector | 2.4 | | | | | | | | | | | | | | | | | | | | | | | |
| Stability | | | | | | | | | 1.2 | | | | | | | | | | | | | | | |
| Short Circuit | | | | | | | | | 0.3 | | | | | | | | | | | | | | | |
| TOTAL | 59.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45.6 | 37.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| GRAN TOTAL | | | | | | | | 104.6 | | | | | | | | 83.0 | | | | | | | | 0.0 |
| TOTAL (Nominal Dollars for RevReq) | 64.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.1 | 41.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.1 | | | | | | | | |

Comments:

- The ability to construct some facilities by in-service date is questionable
- excludes GSU costs
- Assumes Capacity Added in 2002
- Costs are not TOTAL cost associated with generation option, but reflect those items that are not common among options.
- Does Not Include Losses

Assumptions:

- Utilized 1998 series base cases as starting point
- 3600 mw to FL
- Interface Impacts not included
- Phase Shifter in service

| GULF RFP Bid Evaluations - | | | | |
|--|-----------------|---------------------|---------------------|---------------------|
| Transmission Analysis- Grid and Connection Costs* | | | | |
| (2002\$, \$millions) | | | | |
| | Smith | Sonat | Sithe | Polsky |
| | 532 | 500 | 532 | 390 |
| | Accum. | Accum. | Accum. | Accum. |
| | PV RevRq | PV RevRq | PV RevRq | PV RevRq |
| | (BASE) | (Incremental | (Incremental | (Incremental |
| YEAR | | over Base) | over Base) | over Base) |
| 2002 | 0 | 5 | 16 | 15 |
| 2003 | 0 | 10 | 31 | 28 |
| 2004 | 0 | 14 | 44 | 40 |
| 2005 | 0 | 17 | 56 | 50 |
| 2006 | 0 | 21 | 68 | 60 |
| 2007 | 0 | 24 | 79 | 68 |
| 2008 | 0 | 26 | 87 | 75 |
| 2009 | 0 | 29 | 90 | 75 |
| 2010 | 0 | 30 | 88 | 74 |
| 2011 | 0 | 32 | 89 | 73 |
| 2012 | 0 | 34 | 90 | 72 |
| 2013 | 0 | 35 | 90 | 72 |
| 2014 | 0 | 37 | 91 | 71 |
| 2015 | 0 | 38 | 90 | 70 |
| 2016 | 0 | 38 | 90 | 70 |
| 2017 | 0 | 40 | 91 | 70 |
| 2018 | 0 | 40 | 90 | 68 |
| 2019 | 0 | 41 | 90 | 68 |
| 2020 | 0 | 41 | 91 | 68 |
| 2021 | 0 | 41 | 90 | 67 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| * Does not include losses | | | | |
| Based on revenue requirements with 20 year depreciation. | | | | |
| economicsGULF-RFPsumrevrq20yrrev1.xls | | | | |
| 11/13/98 | | | | |

Late-filed Exhibit #4 from
Deposition of William Pope

(Confidential)

20 Year Self-Build

| Year | Southern Units Additions | | Total MW | Accumulative MW | Summer Reserve Margin | | Capital Costs (000\$) | Fixed O&M (000\$) | Fixed Fuel Charge (000\$) | Trans. Grid/Conn (000\$) | Trans. Losses (000\$) | Var. O&M / Fuel (000\$) | Expan. Plan Fixed Costs (000\$) | Total (000\$) | Present Worth Factor | PW Rev. Req. (000\$) | Accum. PW Rev. Req. (000\$) |
|------|--------------------------|-------|----------|-----------------|-----------------------|--------|-----------------------|-------------------|---------------------------|--------------------------|-----------------------|-------------------------|---------------------------------|---------------|----------------------|----------------------|-----------------------------|
| | CC MW | CT MW | | | Southern % | Gulf % | | | | | | | | | | | |
| 2002 | 0 | 600 | 1174.1 | 1174.1 | 13.71 | 19.1% | 25,754 | 1,413 | 10,306 | 0 | (8,621) | 2,845,354 | 19,676 | 2,893,881 | 1.0000 | 2,893,881 | 2,893,881 |
| 2003 | 600 | 300 | 900 | 2074.1 | 14.14 | 18.3% | 42,214 | 2,491 | 17,667 | 0 | (8,833) | 2,970,115 | 63,277 | 3,086,930 | 0.9220 | 2,846,015 | 5,739,896 |
| 2004 | 600 | 0 | 600 | 2674.1 | 13.74 | 16.8% | 40,124 | 2,563 | 17,667 | 0 | (9,412) | 3,110,154 | 97,434 | 3,258,529 | 0.8500 | 2,769,761 | 8,509,657 |
| 2005 | 1200 | 900 | 2100 | 4774.1 | 14.22 | 14.1% | 38,132 | 2,637 | 17,667 | 0 | (9,779) | 3,318,365 | 198,701 | 3,565,722 | 0.7837 | 2,794,336 | 11,303,993 |
| 2006 | 600 | 0 | 600 | 5374.1 | 13.57 | 12.4% | 36,231 | 2,713 | 17,667 | 0 | (10,129) | 3,480,084 | 234,153 | 3,760,718 | 0.7225 | 2,717,142 | 14,021,135 |
| 2007 | 0 | 1200 | 1200 | 6574.1 | 14.11 | 16.5% | 34,412 | 2,791 | 17,667 | 0 | (9,492) | 3,693,345 | 276,997 | 4,015,719 | 0.6661 | 2,674,947 | 16,696,082 |
| 2008 | 300 | 300 | 600 | 7174.1 | 13.56 | 14.5% | 32,649 | 2,871 | 17,667 | 0 | (8,534) | 3,905,621 | 306,733 | 4,257,007 | 0.6141 | 2,614,368 | 19,310,450 |
| 2009 | 600 | 600 | 1200 | 8374.1 | 14.06 | 12.2% | 30,910 | 2,954 | 17,667 | 0 | (6,478) | 4,100,888 | 367,429 | 4,513,369 | 0.5662 | 2,555,486 | 21,865,936 |
| 2010 | 0 | 0 | 0 | 8374.1 | 14.4 | 18.3% | 29,164 | 3,039 | 17,667 | 0 | (4,370) | 4,122,900 | 367,429 | 4,535,829 | 0.5220 | 2,367,771 | 24,233,707 |
| 2011 | 900 | 300 | 1200 | 9574.1 | 13.96 | 16.1% | 27,425 | 3,126 | 17,667 | 0 | (2,212) | 4,231,956 | 438,991 | 4,716,953 | 0.4813 | 2,270,152 | 26,503,859 |
| 2012 | 900 | 600 | 1500 | 11074.1 | 14.06 | 11.0% | 25,679 | 3,216 | 17,667 | 0 | 0 | 4,440,869 | 523,867 | 5,011,299 | 0.4437 | 2,223,587 | 28,727,445 |
| 2013 | 1800 | 0 | 1800 | 12874.1 | 14.23 | 9.4% | 23,940 | 3,309 | 17,667 | 0 | 0 | 4,637,669 | 648,258 | 5,330,843 | 0.4091 | 2,180,771 | 30,908,216 |
| 2014 | 900 | 600 | 1500 | 14374.1 | 13.75 | 7.8% | 22,195 | 3,404 | 17,667 | 0 | 0 | 4,846,042 | 736,511 | 5,625,819 | 0.3772 | 2,121,829 | 33,030,045 |
| 2015 | 1200 | 600 | 1800 | 16174.1 | 14.1 | 3.4% | 20,455 | 3,502 | 17,667 | 0 | 0 | 5,090,296 | 847,938 | 5,979,858 | 0.3477 | 2,079,342 | 35,109,386 |
| 2016 | 1200 | 600 | 1800 | 17974.1 | 13.93 | | 18,710 | 3,603 | 17,667 | 0 | 0 | 5,346,092 | 961,457 | 6,347,529 | 0.3206 | 2,034,932 | 37,144,319 |
| 2017 | 2100 | 600 | 2700 | 20674.1 | 13.64 | | 17,137 | 3,707 | 17,667 | 0 | 0 | 5,845,007 | 1,144,105 | 7,027,623 | 0.2956 | 2,077,132 | 39,221,451 |
| 2018 | 1200 | 900 | 2100 | 22774.1 | 13.62 | | 15,891 | 3,814 | 17,667 | 0 | 0 | 6,262,526 | 1,275,331 | 7,575,229 | 0.2725 | 2,064,248 | 41,285,699 |
| 2019 | 2100 | 0 | 2100 | 24874.1 | 14.09 | | 14,812 | 3,924 | 17,667 | 0 | 0 | 6,778,473 | 1,437,584 | 8,252,459 | 0.2512 | 2,073,289 | 43,358,988 |
| 2020 | 1500 | 600 | 2100 | 26974.1 | 13.85 | | 13,727 | 4,037 | 17,667 | 0 | 0 | 7,242,483 | 1,583,483 | 8,861,396 | 0.2316 | 2,052,527 | 45,411,515 |
| 2021 | 2100 | 1500 | 3600 | 30574.1 | 13.87 | | 12,647 | 4,153 | 17,667 | 0 | 0 | 7,851,764 | 1,822,761 | 9,708,992 | 0.2135 | 2,073,344 | 47,484,859 |
| 2022 | 2100 | 300 | 2400 | 32974.1 | 13.78 | | 4,960 | 1,780 | 7,361 | 0 | 0 | 8,407,006 | 2,008,764 | 10,429,872 | 0.1969 | 2,053,461 | 49,538,320 |

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| YEAR | PEAK DEMAND (MW) | STARTING CAPACITY (MW) | CAPACITY ADDITION (MW) | ENDING CAPACITY (MW) | PERCENT RESERVES |
|------|------------------|------------------------|------------------------|----------------------|------------------|
| 2002 | 2,265 | 2,123 | 574 | 2,697 | 19.1% |
| 2003 | 2,280 | 2,697 | 0 | 2,697 | 18.3% |
| 2004 | 2,309 | 2,697 | 0 | 2,697 | 16.8% |
| 2005 | 2,347 | 2,697 | -19 | 2,678 | 14.1% |
| 2006 | 2,383 | 2,678 | 0 | 2,678 | 12.4% |
| 2007 | 2,425 | 2,678 | 148 | 2,826 | 16.5% |
| 2008 | 2,466 | 2,826 | -3 | 2,823 | 14.5% |
| 2009 | 2,515 | 2,823 | -2 | 2,821 | 12.2% |
| 2010 | 2,565 | 2,821 | 214 | 3,035 | 18.3% |
| 2011 | 2,614 | 3,035 | 0 | 3,035 | 16.1% |
| 2012 | 2,651 | 3,035 | -92 | 2,943 | 11.0% |
| 2013 | 2,678 | 2,943 | -13 | 2,930 | 9.4% |
| 2014 | 2,711 | 2,930 | -7 | 2,923 | 7.8% |
| 2015 | 2,751 | 2,923 | -78 | 2,845 | 3.4% |
| 2016 | 2,787 | 2,845 | -67 | 2,378 | -14.7% |
| 2017 | 2,829 | 2,378 | -80 | 2,298 | -18.8% |
| 2018 | 2,871 | 2,298 | -208 | 2,090 | -27.2% |
| 2019 | 2,914 | 2,090 | -495 | 1,595 | -45.3% |
| 2020 | 2,957 | 1,595 | 0 | 1,595 | -46.1% |
| 2021 | 3,016 | 1,595 | 0 | 1,595 | -47.1% |

DOCUMENT NUMBER-DATE
05938 MAY 10 2008
FPSC-RECORDS/REPORTING

DOCUMENT NUMBER-DATE
05938 MAY 10 2008
FPSC-RECORDS/REPORTING

| Respondent A - 2 Cogen Facilities | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-------|-------|----------|-------------|------------|--------|-----------------------|-------------------|---------------------------|--------------------------|-----------------------|-------------------------------------|---|---------------|----------------------|----------------------|-----------------------------|---|
| Proposal Size (MW) | 351.5 | | | | | | | | | | | | | | | | | |
| Year | CC MW | CT MW | Total MW | Accumula MW | Southern % | Gulf % | Capital Costs (000\$) | Fixed O&M (000\$) | Fixed Fuel Change (000\$) | Trans. Grid/Conn (000\$) | Trans. Losses (000\$) | Proview G&P Var. O&M / Fuel (000\$) | Proview Fixed Expan. Plan Fixed Costs (000\$) | Total (000\$) | Present Worth Factor | PW Rev. Req. (000\$) | Accum. PW Rev. Req. (000\$) | Delta Resp. - SelfBuild Accum. PW Rev. Req. |
| 2002 | 300 | 600 | 1251.5 | 1251.5 | 13.95 | 9.2% | 13,505 | | | 14,700 | (4,617) | 2,849,500 | 36,132 | 2,909,220 | 1.0000 | 2,909,220 | 2,909,220 | 15,339 |
| 2003 | 600 | 300 | 900 | 2151.5 | 14.37 | 8.5% | 23,846 | | | 14,209 | (4,730) | 2,979,974 | 79,732 | 3,093,030 | 0.9220 | 2,851,639 | 5,760,859 | 20,963 |
| 2004 | 600 | 0 | 600 | 2751.5 | 13.97 | 7.2% | 24,561 | | | 14,118 | (5,048) | 3,119,120 | 113,889 | 3,266,639 | 0.8500 | 2,776,655 | 8,537,513 | 27,886 |
| 2005 | 900 | 900 | 1800 | 4551.5 | 13.58 | 4.6% | 25,297 | | | 12,761 | (5,251) | 3,332,824 | 197,757 | 3,563,388 | 0.7837 | 2,792,507 | 11,330,020 | 26,027 |
| 2006 | 600 | 300 | 900 | 5451.5 | 13.79 | 3.0% | 26,056 | | | 13,702 | (5,459) | 3,494,161 | 244,016 | 3,772,477 | 0.7225 | 2,725,637 | 14,055,658 | 34,522 |
| 2007 | 0 | 1200 | 1200 | 6651.5 | 14.32 | | 26,838 | | | 12,310 | (5,127) | 3,710,325 | 286,389 | 4,030,736 | 0.6661 | 2,684,950 | 16,740,608 | 44,526 |
| 2008 | 300 | 300 | 600 | 7251.5 | 13.77 | | 27,643 | | | 11,073 | (4,605) | 3,925,396 | 316,125 | 4,275,632 | 0.6141 | 2,625,806 | 19,366,413 | 56,964 |
| 2009 | 900 | 300 | 1200 | 8451.5 | 14.26 | | 28,472 | | | 706 | (3,492) | 4,112,282 | 384,964 | 4,522,933 | 0.5662 | 2,560,901 | 21,927,315 | 61,379 |
| 2010 | 0 | 0 | 0 | 8451.5 | 14.6 | | 29,327 | | | -3,066 | (2,354) | 4,133,298 | 384,964 | 4,542,170 | 0.5220 | 2,371,081 | 24,298,396 | 64,689 |
| 2011 | 600 | 600 | 1200 | 9651.5 | 14.16 | | 30,206 | | | -1,662 | (1,190) | 4,251,142 | 448,188 | 4,726,684 | 0.4813 | 2,274,835 | 26,573,231 | 69,372 |
| 2012 | 1200 | 300 | 1500 | 11151.5 | 14.25 | | 31,113 | | | -1,578 | 0 | 4,452,721 | 541,500 | 5,023,756 | 0.4437 | 2,229,114 | 28,802,345 | 74,900 |
| 2013 | 1500 | 0 | 1500 | 12651.5 | 13.68 | | 32,046 | | | -1,222 | 0 | 4,652,953 | 645,159 | 5,328,936 | 0.4091 | 2,179,991 | 30,982,336 | 74,120 |
| 2014 | 900 | 900 | 1800 | 14451.5 | 13.93 | | 33,007 | | | -530 | 0 | 4,866,361 | 745,858 | 5,644,696 | 0.3772 | 2,128,948 | 33,111,285 | 81,240 |
| 2015 | 1500 | 0 | 1500 | 15951.5 | 13.57 | | 33,998 | | | -2,876 | 0 | 5,097,448 | 853,445 | 5,982,015 | 0.3477 | 2,080,091 | 35,191,376 | 81,990 |
| 2016 | 1200 | 900 | 2100 | 18051.5 | 14.11 | | 35,018 | | | -1,560 | 0 | 5,358,861 | 979,880 | 6,372,199 | 0.3206 | 2,042,841 | 37,234,217 | 89,896 |
| 2017 | 1800 | 900 | 2700 | 20751.5 | 13.82 | | 36,068 | | | -338 | 0 | 5,866,194 | 1,153,355 | 7,065,279 | 0.2956 | 2,085,306 | 39,319,524 | 96,073 |
| 2018 | 1500 | 600 | 2100 | 22851.5 | 13.79 | | 37,150 | | | -5,872 | 0 | 6,276,676 | 1,293,927 | 7,601,882 | 0.2725 | 2,071,511 | 41,391,034 | 105,336 |
| 2019 | 1800 | 0 | 1800 | 24851.5 | 13.59 | | 38,265 | | | 398 | 0 | 6,791,466 | 1,433,001 | 8,263,130 | 0.2512 | 2,075,970 | 43,467,004 | 108,016 |
| 2020 | 1800 | 600 | 2400 | 27051.5 | 14.02 | | 39,413 | | | -1,727 | 0 | 7,257,031 | 1,602,514 | 8,897,231 | 0.2316 | 2,060,828 | 45,527,832 | 116,317 |
| 2021 | 2100 | 1500 | 3600 | 30651.5 | 14.04 | | 40,585 | | | -3,746 | 0 | 7,866,821 | 1,841,792 | 9,745,462 | 0.2135 | 2,081,132 | 47,608,964 | 124,105 |
| 2022 | 2400 | 300 | 2700 | 33351.5 | 13.83 | | 20,906 | | | 0 | 0 | 8,429,140 | 2,052,304 | 10,502,350 | 0.1969 | 2,067,731 | 49,676,695 | 138,374 |

*** This alternative would require an additional 76 MW to achieve 12.6% reserve margin requirement for Gulf Power

Capital Cost was supplied in \$/kW-month

Two sites were included in the proposal - 177 MW and 212 MW for a total of 389 MW, but have summer capacities of 157.2 and 194.3 MW
Capital costs for both sites were multiplied by their respective MW's and then divided by the total MW's

Year 2002 capital cost is for 7 months

Year 2012 capital cost is for 6 months

Additional MW Required to get to 12.6%

76

| YEAR | PEAK DEMAND (MW) | STARTING CAPACITY (MW) | CAPACITY ADDITION (MW) | ENDING CAPACITY (MW) | PERCENT RESERVES |
|------|------------------|------------------------|------------------------|----------------------|------------------|
| 2002 | 2,265 | 2,123 | 352 | 2,475 | 9.2% |
| 2003 | 2,280 | 2,475 | 0 | 2,475 | 8.5% |
| 2004 | 2,309 | 2,475 | 0 | 2,475 | 7.2% |
| 2005 | 2,347 | 2,475 | -19 | 2,456 | 4.6% |
| 2006 | 2,383 | 2,456 | 0 | 2,456 | 3.0% |
| 2007 | 2,425 | 2,456 | 148 | 2,604 | 7.4% |
| 2008 | 2,466 | 2,604 | -3 | 2,601 | 5.5% |
| 2009 | 2,515 | 2,601 | -2 | 2,599 | 3.3% |
| 2010 | 2,565 | 2,599 | 214 | 2,813 | 9.6% |
| 2011 | 2,614 | 2,813 | 0 | 2,813 | 7.6% |
| 2012 | 2,651 | 2,813 | -92 | 2,721 | 2.6% |
| 2013 | 2,678 | 2,721 | -13 | 2,708 | 1.1% |
| 2014 | 2,711 | 2,708 | -7 | 2,701 | -0.4% |
| 2015 | 2,751 | 2,701 | -78 | 2,623 | -4.7% |
| 2016 | 2,787 | 2,623 | -467 | 2,156 | -22.7% |
| 2017 | 2,829 | 2,156 | -80 | 2,076 | -26.6% |
| 2018 | 2,871 | 2,076 | -208 | 1,868 | -35.0% |
| 2019 | 2,914 | 1,868 | -495 | 1,373 | -52.9% |
| 2020 | 2,957 | 1,373 | 0 | 1,373 | -53.6% |
| 2021 | 3,016 | 1,373 | 0 | 1,373 | -54.5% |

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| Respondent B - CC Proposal (7 Year Pricing) | | | | | | | | | | | | | | | | | | |
|---|-------|--------------------------|----------|-----------------|-----------------------|--------|-----------------------|-------------------|---------------------------|-------------------------|-----------------------|-------------------------|---------------------------------|---------------|----------------------|----------------------|-----------------------------|---|
| Proposed Size (MW) | 500 | | | | | | | | | | | | | | | | | |
| Year | CC MW | Southern Units Additions | | | Summer Reserve Margin | | Capital Costs (000\$) | Fixed O&M (000\$) | Fixed Fuel Charge (000\$) | Trans. Grd/Conn (000\$) | Trans. Losses (000\$) | Var. O&M / Fuel (000\$) | Expan. Plan Fixed Costs (000\$) | Total (000\$) | Present Worth Factor | PW Rev. Req. (000\$) | Accum. PW Rev. Req. (000\$) | Delta Resp. - SelfBuild Accum. PW Rev. Req. (000\$) |
| | | CT MW | Total MW | Accumulative MW | Southern % | Gulf % | | | | | | | | | | | | |
| 2002 | 0 | 900 | 1400 | 1400 | 14.4 | 15.8% | 17,975 | | 9,198 | 5,000 | (7,786) | 2,850,599 | 29,514 | 2,904,500 | 1.0000 | 2,904,500 | 2,904,500 | 10,618 |
| 2003 | 600 | 0 | 600 | 2000 | 13.91 | 15.0% | 31,667 | | 15,768 | 5,423 | (7,974) | 2,979,099 | 63,043 | 3,087,027 | 0.9220 | 2,846,104 | 5,750,604 | 10,708 |
| 2004 | 600 | 0 | 600 | 2600 | 13.52 | 13.6% | 32,443 | | 15,768 | 4,706 | (8,494) | 3,119,762 | 97,200 | 3,261,384 | 0.8500 | 2,772,188 | 8,522,792 | 13,135 |
| 2005 | 900 | 1200 | 2100 | 4700 | 14.01 | 11.0% | 33,227 | | 15,768 | 3,828 | (8,827) | 3,333,174 | 191,625 | 3,568,796 | 0.7837 | 2,796,745 | 11,319,537 | 15,543 |
| 2006 | 900 | 0 | 900 | 5600 | 14.21 | 9.3% | 34,075 | | 15,768 | 5,536 | (9,141) | 3,487,933 | 244,802 | 3,778,973 | 0.7225 | 2,730,311 | 14,049,867 | 28,732 |
| 2007 | 0 | 900 | 900 | 6500 | 13.9 | | 34,948 | | 15,768 | 4,504 | (8,565) | 3,701,496 | 276,582 | 4,024,733 | 0.6661 | 2,680,951 | 16,730,819 | 34,737 |
| 2008 | 300 | 600 | 900 | 7400 | 14.17 | | 35,822 | | 15,768 | 3,257 | (7,703) | 3,915,419 | 317,162 | 4,279,724 | 0.6141 | 2,628,319 | 19,359,138 | 48,688 |
| 2009 | 1200 | 300 | 1500 | 8900 | 14.13 | | 15,341 | | 6,570 | 5,298 | (5,849) | 4,117,021 | 405,248 | 4,543,629 | 0.5662 | 2,572,619 | 21,931,757 | 85,822 |
| 2010 | 0 | 0 | 0 | 8900 | 14.47 | | 0 | | 1,916 | (3,947) | 4,139,628 | 405,248 | 4,542,844 | 0.5220 | 2,371,433 | 24,303,191 | 69,484 | |
| 2011 | 600 | 600 | 1200 | 10100 | 14.02 | | 0 | | 4,156 | (1,969) | 4,258,007 | 468,471 | 4,728,635 | 0.4813 | 2,275,774 | 26,578,965 | 75,106 | |
| 2012 | 1200 | 300 | 1500 | 11600 | 14.12 | | 0 | | 4,507 | 0 | 4,459,226 | 561,784 | 5,025,517 | 0.4437 | 2,229,896 | 28,808,861 | 81,415 | |
| 2013 | 1500 | 0 | 1500 | 13100 | 13.55 | | 0 | | 2,444 | 0 | 4,658,921 | 665,443 | 5,326,808 | 0.4091 | 2,179,121 | 30,987,981 | 79,765 | |
| 2014 | 900 | 900 | 1800 | 14900 | 13.81 | | 0 | | 5,303 | 0 | 4,872,318 | 766,141 | 5,643,762 | 0.3772 | 2,128,596 | 33,116,577 | 86,532 | |
| 2015 | 1200 | 600 | 1800 | 16700 | 14.17 | | 0 | | 2,876 | 0 | 5,117,110 | 877,569 | 5,997,565 | 0.3477 | 2,085,495 | 35,202,072 | 92,686 | |
| 2016 | 1500 | 300 | 1800 | 18500 | 13.99 | | 0 | | 0 | 0 | 5,365,961 | 1,000,092 | 6,366,063 | 0.3206 | 2,040,871 | 37,242,943 | 98,624 | |
| 2017 | 1800 | 900 | 2700 | 21200 | 13.7 | | 0 | | 6,767 | 0 | 5,872,402 | 1,173,566 | 7,052,735 | 0.2956 | 2,084,554 | 39,327,498 | 106,047 | |
| 2018 | 1500 | 600 | 2100 | 23300 | 13.68 | | 0 | | 0 | 0 | 6,282,603 | 1,314,138 | 7,596,741 | 0.2725 | 2,070,110 | 41,397,608 | 111,909 | |
| 2019 | 1800 | 300 | 2100 | 25400 | 14.15 | | 0 | | 3,980 | 0 | 6,806,042 | 1,466,870 | 8,276,892 | 0.2512 | 2,079,427 | 43,477,035 | 118,047 | |
| 2020 | 1500 | 600 | 2100 | 27500 | 13.9 | | 0 | | 0 | 0 | 7,270,810 | 1,612,768 | 8,883,578 | 0.2316 | 2,057,665 | 45,534,700 | 123,185 | |
| 2021 | 2400 | 1200 | 3600 | 31100 | 13.93 | | 0 | | 0 | 0 | 7,872,211 | 1,861,928 | 9,734,139 | 0.2135 | 2,078,714 | 47,613,414 | 128,555 | |
| 2022 | 2100 | 300 | 2400 | 33500 | 13.83 | | 0 | | 0 | 0 | 8,428,212 | 2,047,932 | 10,476,144 | 0.1969 | 2,082,572 | 49,675,986 | 137,666 | |

| YEAR | PEAK DEMAND (MW) | STARTING CAPACITY (MW) | CAPACITY ADDITION (MW) | ENDING CAPACITY (MW) | PERCENT RESERVES |
|------|------------------|------------------------|------------------------|----------------------|------------------|
| 2002 | 2,265 | 2,123 | 500 | 2,623 | 15.8% |
| 2003 | 2,280 | 2,623 | 0 | 2,623 | 15.0% |
| 2004 | 2,309 | 2,623 | 0 | 2,623 | 13.6% |
| 2005 | 2,347 | 2,623 | -19 | 2,604 | 11.0% |
| 2006 | 2,383 | 2,604 | 0 | 2,604 | 9.3% |
| 2007 | 2,425 | 2,604 | 148 | 2,752 | 13.5% |
| 2008 | 2,466 | 2,752 | -3 | 2,749 | 11.5% |
| 2009 | 2,515 | 2,749 | -502 | 2,247 | -10.7% |
| 2010 | 2,566 | 2,247 | 214 | 2,461 | -4.1% |
| 2011 | 2,614 | 2,461 | 0 | 2,461 | -5.9% |
| 2012 | 2,651 | 2,461 | -92 | 2,369 | -10.6% |
| 2013 | 2,678 | 2,369 | -13 | 2,356 | -12.0% |
| 2014 | 2,711 | 2,356 | -7 | 2,349 | -13.4% |
| 2015 | 2,751 | 2,349 | -78 | 2,271 | -17.4% |
| 2016 | 2,787 | 2,271 | -467 | 1,804 | -35.3% |
| 2017 | 2,829 | 1,804 | -80 | 1,724 | -39.1% |
| 2018 | 2,871 | 1,724 | -208 | 1,516 | -47.2% |
| 2019 | 2,914 | 1,516 | -495 | 1,021 | -65.0% |
| 2020 | 2,957 | 1,021 | 0 | 1,021 | -65.5% |
| 2021 | 3,016 | 1,021 | 0 | 1,021 | -66.1% |

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| Respondent B - CC Proposal (10 Year Pricing) | | | | | | | | | | | | | | | | | | |
|--|-------|--------------------------------|----------|-----------------|-----------------------|--------|-----------------------|-------------------|---------------------------|--------------------------|-----------------------|-------------------------|---------------------------------|---------------|----------------------|----------------------|-----------------------------|---|
| Proposal Size (MW) | 500 | | | | Summer Reserve Margin | | Capital Costs (000\$) | Fixed O&M (000\$) | Fixed Fuel Charge (000\$) | Trans. Grid/Conn (000\$) | Trans. Losses (000\$) | Var. O&M / Fuel (000\$) | Expan. Plan Fixed Costs (000\$) | Total (000\$) | Present Worth Factor | PW Rev. Req. (000\$) | Accum. PW Rev. Req. (000\$) | Delta Resp. - SelfBuild Accum. PW Rev. Req. (000\$) |
| Year | CC MW | Southern Units Additions CT MW | Total MW | Accumulative MW | Southern % | Gulf % | | | | | | | | | | | | |
| 2002 | 0 | 900 | 1400 | 1400 | 14.4 | 15.8% | 16,537 | | 9,196 | 5,000 | (7,786) | 2,849,873 | 29,514 | 2,902,336 | 1.0000 | 2,902,336 | 2,902,336 | 8,454 |
| 2003 | 600 | 0 | 600 | 2000 | 13.91 | 15.0% | 29,117 | | 15,768 | 5,423 | (7,974) | 2,977,438 | 63,043 | 3,082,816 | 0.9220 | 2,842,222 | 5,744,557 | 4,661 |
| 2004 | 600 | 0 | 600 | 2600 | 13.52 | 13.6% | 29,845 | | 15,768 | 4,706 | (8,494) | 3,117,630 | 97,200 | 3,256,655 | 0.8500 | 2,768,168 | 8,512,726 | 3,069 |
| 2005 | 900 | 1200 | 2100 | 4700 | 14.01 | 11.0% | 30,591 | | 15,768 | 3,828 | (8,827) | 3,331,506 | 191,625 | 3,564,492 | 0.7837 | 2,793,372 | 11,306,098 | 2,104 |
| 2006 | 900 | 0 | 900 | 5600 | 14.21 | 9.3% | 31,356 | | 15,768 | 5,536 | (9,141) | 3,486,960 | 244,802 | 3,775,281 | 0.7225 | 2,727,664 | 14,033,762 | 12,626 |
| 2007 | 0 | 900 | 900 | 6500 | 13.9 | | 32,140 | | 15,768 | 4,504 | (8,565) | 3,699,964 | 278,582 | 4,020,393 | 0.6661 | 2,678,061 | 16,711,822 | 15,740 |
| 2008 | 300 | 600 | 900 | 7400 | 14.17 | | 32,944 | | 15,768 | 3,257 | (7,703) | 3,914,713 | 317,162 | 4,276,140 | 0.6141 | 2,626,118 | 19,337,940 | 27,490 |
| 2009 | 600 | 300 | 900 | 8300 | 13.86 | | 33,767 | | 15,768 | 5,298 | (5,849) | 4,106,335 | 366,756 | 4,522,076 | 0.5662 | 2,560,416 | 21,899,356 | 32,420 |
| 2010 | 0 | 0 | 0 | 8300 | 14.2 | | 34,611 | | 15,768 | 1,916 | (3,947) | 4,129,873 | 366,756 | 4,544,977 | 0.5220 | 2,372,546 | 24,270,902 | 37,195 |
| 2011 | 900 | 300 | 1200 | 9500 | 13.77 | | 35,477 | | 15,768 | 4,156 | (1,959) | 4,239,282 | 438,318 | 4,731,002 | 0.4813 | 2,276,913 | 26,547,816 | 43,957 |
| 2012 | 1500 | 600 | 2100 | 11600 | 14.12 | | 15,195 | | 6,570 | 4,507 | 0 | 4,458,212 | 563,894 | 5,048,378 | 0.4437 | 2,240,040 | 28,787,855 | 60,410 |
| 2013 | 1500 | 0 | 1500 | 13100 | 13.55 | | 0 | | 0 | 2,444 | 0 | 4,658,921 | 667,553 | 5,328,918 | 0.4091 | 2,179,964 | 30,967,839 | 59,622 |
| 2014 | 900 | 800 | 1800 | 14900 | 13.81 | | 0 | | 0 | 5,303 | 0 | 4,872,318 | 768,251 | 5,645,872 | 0.3772 | 2,129,392 | 33,097,231 | 67,186 |
| 2015 | 1200 | 600 | 1800 | 16700 | 14.17 | | 0 | | 0 | 2,876 | 0 | 5,117,110 | 879,679 | 5,995,665 | 0.3477 | 2,086,229 | 35,183,459 | 74,073 |
| 2016 | 1500 | 300 | 1800 | 18500 | 13.99 | | 0 | | 0 | 0 | 0 | 5,365,961 | 1,002,202 | 6,368,163 | 0.3206 | 2,041,547 | 37,225,007 | 80,688 |
| 2017 | 1800 | 900 | 2700 | 21200 | 13.7 | | 0 | | 0 | 6,767 | 0 | 5,872,402 | 1,175,676 | 7,054,845 | 0.2956 | 2,085,178 | 39,310,185 | 88,734 |
| 2018 | 1500 | 600 | 2100 | 23300 | 13.68 | | 0 | | 0 | 0 | 0 | 6,282,603 | 1,316,248 | 7,598,851 | 0.2725 | 2,070,685 | 41,380,870 | 95,171 |
| 2019 | 1800 | 300 | 2100 | 25400 | 14.15 | | 0 | | 0 | 3,960 | 0 | 6,806,042 | 1,468,980 | 8,279,002 | 0.2512 | 2,079,957 | 43,460,827 | 101,840 |
| 2020 | 1500 | 600 | 2100 | 27500 | 13.9 | | 0 | | 0 | 0 | 0 | 7,270,810 | 1,614,878 | 8,885,688 | 0.2316 | 2,058,154 | 45,518,981 | 107,466 |
| 2021 | 2400 | 1200 | 3600 | 31100 | 13.93 | | 0 | | 0 | 0 | 0 | 7,872,211 | 1,864,038 | 9,736,249 | 0.2135 | 2,079,165 | 47,596,146 | 113,287 |
| 2022 | 2100 | 300 | 2400 | 33500 | 13.83 | | 0 | | 0 | 0 | 0 | 8,428,212 | 2,050,042 | 10,478,254 | 0.1969 | 2,062,967 | 49,661,133 | 122,813 |

| YEAR | PEAK DEMAND (MW) | STARTING CAPACITY (MW) | CAPACITY ADDITION (MW) | ENDING CAPACITY (MW) | PERCENT RESERVES |
|------|------------------|------------------------|------------------------|----------------------|------------------|
| 2002 | 2,265 | 2,123 | 600 | 2,823 | 15.8% |
| 2003 | 2,290 | 2,623 | 0 | 2,623 | 15.0% |
| 2004 | 2,309 | 2,623 | 0 | 2,623 | 13.6% |
| 2005 | 2,347 | 2,623 | -19 | 2,604 | 11.0% |
| 2006 | 2,383 | 2,604 | 0 | 2,604 | 9.3% |
| 2007 | 2,425 | 2,604 | 148 | 2,752 | 13.5% |
| 2008 | 2,466 | 2,752 | -3 | 2,749 | 11.6% |
| 2009 | 2,515 | 2,749 | -2 | 2,747 | 9.2% |
| 2010 | 2,565 | 2,747 | 214 | 2,961 | 15.4% |
| 2011 | 2,614 | 2,961 | 0 | 2,961 | 13.3% |
| 2012 | 2,651 | 2,961 | -592 | 2,369 | -10.6% |
| 2013 | 2,678 | 2,369 | -13 | 2,356 | -12.0% |
| 2014 | 2,711 | 2,356 | -7 | 2,349 | -13.4% |
| 2015 | 2,751 | 2,349 | -78 | 2,271 | -17.4% |
| 2016 | 2,787 | 2,271 | -467 | 1,804 | -35.3% |
| 2017 | 2,829 | 1,804 | -80 | 1,724 | -39.1% |
| 2018 | 2,871 | 1,724 | -208 | 1,516 | -47.2% |
| 2019 | 2,914 | 1,516 | -495 | 1,021 | -65.0% |
| 2020 | 2,957 | 1,021 | 0 | 1,021 | -65.5% |
| 2021 | 3,016 | 1,021 | 0 | 1,021 | -66.1% |

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