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November 20, 2012

HAND DELIVERED

Ms. Ann Cole, Director
Division of Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

RECEIVED FPSC
12 NOV 20 PM 2:39
COMMISSION
CLERK

Re: Tampa Electric Company's Petition to Determine Need
for Polk 2-5 Combined Cycle Conversion
FPSC Docket No. 120234-EI

Dear Ms. Cole:

Enclosed for filing in the above docket are the original and fifteen (15) copies of each of the following:

1. Bates stamp pages 48, 50, 51, 53, 62 and 65 of Tampa Electric's answer to Staff's Interrogatory No. 46, each marked "Revised November 20, 2012."
2. Page 44 of Tampa Electric's Need Study, marked "Revised November 20, 2012."
3. Page 24 of Tampa Electric witness R. James Rocha's prepared direct testimony, marked "Revised 11/20/12."
4. Bates stamp page 57 of Tampa Electric witness R. James Rocha's Exhibit No. ___ (RJR-1), Document No. 9, marked "Revised 11/20/2012."

These revised pages correct inadvertent errors in their previously filed counterparts. Tampa Electric agrees that transmission costs should have been segregated out from year 2025 forward on the low and high fuel scenarios for Alternative No. 2 - however, they were included in the generation capital column. Tampa Electric also discovered a minor error of a few months in-service date for the planned combined cycle in 2025. That correction, along with moving the transmission costs from the generation capital column were made. Corrections were also made for the low and high capital scenarios for both Polk 2-5 and Alternative No. 2 related to transmission as those costs were inadvertently left out of the calculations in both the high and

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| TEL | _____ |
| CLK | _____ |

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FPSC-COMMISSION CLERK

Ms. Ann Cole
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low capital cost scenarios. The low capital cost scenario for Polk 2-5 also had a sensitivity percentage that was inadvertently applied.

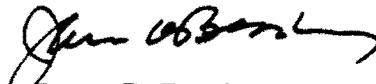
Finally, table 7 and table 8 of the Need Study did not reflect the above corrections and need to be revised, which is also the same information contained in page 24 of Mr. Rocha's testimony and Document No. 9 of his exhibit.

The revised pages included in this filing correct the above inadvertent errors. We would appreciate your distributing them to recipients of the initial filing so that they may be substituted in place of the corresponding pages of that earlier filing.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/pp
Enclosures

cc: All Parties of Record (w/encls.)

**TAMPA ELECTRIC COMPANY
DOCKET NO. 120234-EI
STAFF'S SECOND SET OF
INTERROGATORIES
INTERROGATORY NO. 46
PAGE 2 OF 19
FILED: OCTOBER 23, 2012
REVISED: NOVEMBER 20, 2012**

Low Cost of Capital: Polk Units 2-5

| Year | Annual Revenue Requirements (Generation Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (Transmission Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (O&M) (\$millions, 2012 \$) | Annual Revenue Requirements (Fuel) (\$millions, 2012 \$) | Annual Revenue Requirements (Environmental) (\$millions, 2012 \$) | Total (\$millions, 2012 \$) | Bill Impact (2012 \$/1,000 kWh)* |
|--------------|--|--|---|--|---|-----------------------------|----------------------------------|
| 2012 | - | - | 58.49 | 891.93 | - | 950.42 | 0.00 |
| 2013 | - | - | 56.64 | 846.43 | - | 903.08 | 0.00 |
| 2014 | - | - | 54.01 | 814.40 | - | 868.40 | 0.00 |
| 2015 | - | - | 50.66 | 787.74 | - | 838.40 | 0.00 |
| 2016 | - | - | 49.45 | 749.39 | - | 798.84 | 0.00 |
| 2017 | 58.01 | 19.98 | 46.77 | 672.79 | - | 797.56 | 0.00 |
| 2018 | 52.06 | 17.93 | 44.06 | 645.21 | - | 759.27 | 0.00 |
| 2019 | 60.48 | 16.01 | 43.79 | 621.53 | - | 741.80 | 0.00 |
| 2020 | 55.36 | 14.29 | 41.86 | 603.60 | - | 715.11 | 0.00 |
| 2021 | 49.33 | 12.76 | 39.67 | 584.25 | - | 686.00 | 0.00 |
| 2022 | 56.13 | 11.40 | 38.89 | 562.41 | - | 668.83 | 0.00 |
| 2023 | 51.25 | 10.18 | 37.16 | 541.92 | - | 640.50 | 0.00 |
| 2024 | 45.62 | 9.09 | 35.28 | 518.22 | - | 608.21 | 0.00 |
| 2025 | 51.16 | 8.11 | 34.87 | 500.58 | - | 594.73 | 0.00 |
| 2026 | 46.57 | 7.23 | 33.06 | 478.48 | - | 565.34 | 0.00 |
| 2027 | 41.33 | 6.44 | 31.42 | 456.81 | - | 536.00 | 0.00 |
| 2028 | 36.65 | 5.72 | 30.21 | 438.75 | - | 511.33 | 0.00 |
| 2029 | 41.21 | 5.08 | 29.52 | 422.99 | - | 498.79 | 0.00 |
| 2030 | 37.37 | 4.49 | 28.04 | 401.58 | - | 471.48 | 0.00 |
| 2031 | 33.00 | 3.97 | 26.67 | 382.12 | - | 445.76 | 0.00 |
| 2032 | 29.10 | 3.50 | 25.21 | 362.86 | - | 420.66 | 0.00 |
| 2033 | 25.61 | 3.08 | 24.14 | 346.24 | - | 399.06 | 0.00 |
| 2034 | 22.51 | 2.70 | 22.90 | 326.94 | - | 375.05 | 0.00 |
| 2035 | 19.77 | 2.36 | 21.47 | 311.29 | - | 354.89 | 0.00 |
| 2036 | 72.32 | 2.05 | 22.82 | 292.57 | - | 389.76 | 0.00 |
| 2037 | 64.46 | 1.79 | 21.65 | 278.00 | - | 365.90 | 0.00 |
| 2038 | 57.29 | 1.59 | 20.30 | 264.39 | - | 343.55 | 0.00 |
| 2039 | 50.93 | 1.41 | 19.38 | 248.63 | - | 320.36 | 0.00 |
| 2040 | 45.27 | 1.26 | 18.39 | 214.67 | - | 279.59 | 0.00 |
| 2041 | 40.24 | 1.11 | 17.45 | 199.64 | - | 258.45 | 0.00 |
| 2042 | 35.76 | 0.99 | 16.60 | 185.06 | - | 238.41 | 0.00 |
| 2043 | 31.76 | 0.87 | 15.80 | 171.56 | - | 219.98 | 0.00 |
| 2044 | 27.74 | 0.77 | 15.04 | 159.03 | - | 202.58 | 0.00 |
| 2045 | 24.40 | 0.68 | 14.33 | 147.42 | - | 186.84 | 0.00 |
| 2046 | 21.61 | 0.59 | 13.67 | 136.66 | - | 172.54 | 0.00 |
| Total | 1,284.29 | 177.42 | 1,099.66 | 15,566.11 | - | 18,127.48 | |

*Assumes Low Cost of Capital is the base case compared to Low Cost of Capital Alternative 1 and Alternative 2.

DOCUMENT NUMBER DATE

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**TAMPA ELECTRIC COMPANY
DOCKET NO. 120234-EI
STAFF'S SECOND SET OF
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Lower Cost of Capital: Alternative 2

| Year | Annual Revenue Requirements (Generation Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (Transmission Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (O&M) (\$millions, 2012 \$) | Annual Revenue Requirements (Fuel) (\$millions, 2012 \$) | Annual Revenue Requirements (Environmental) (\$millions, 2012 \$) | Total (\$millions, 2012 \$) | Bill Impact (2012 \$/1,000 kWh)* |
|--------------|--|--|---|--|---|-----------------------------|----------------------------------|
| 2012 | - | - | 58.49 | 891.93 | - | 950.42 | 0.00 |
| 2013 | - | - | 56.64 | 846.43 | - | 903.08 | 0.00 |
| 2014 | - | - | 54.01 | 814.40 | - | 868.40 | 0.00 |
| 2015 | - | - | 50.66 | 787.74 | - | 838.40 | 0.00 |
| 2016 | - | - | 49.47 | 748.02 | - | 797.49 | -0.07 |
| 2017 | 30.77 | - | 49.46 | 692.17 | - | 772.41 | -1.21 |
| 2018 | 45.17 | - | 47.60 | 664.39 | - | 757.16 | -0.10 |
| 2019 | 55.55 | - | 47.54 | 646.42 | - | 749.51 | 0.36 |
| 2020 | 50.67 | - | 45.53 | 630.05 | - | 726.25 | 0.51 |
| 2021 | 44.89 | - | 42.94 | 604.33 | - | 692.16 | 0.28 |
| 2022 | 51.96 | - | 42.28 | 585.50 | - | 679.75 | 0.50 |
| 2023 | 47.34 | - | 40.44 | 565.23 | - | 653.01 | 0.56 |
| 2024 | 41.94 | - | 38.52 | 542.26 | - | 622.72 | 0.65 |
| 2025 | 76.96 | 13.72 | 36.17 | 499.93 | - | 626.78 | 1.43 |
| 2026 | 68.57 | 12.32 | 34.35 | 477.92 | - | 593.16 | 1.23 |
| 2027 | 60.88 | 10.99 | 32.67 | 456.98 | - | 561.52 | 1.12 |
| 2028 | 54.00 | 9.81 | 31.37 | 438.63 | - | 533.81 | 0.98 |
| 2029 | 47.85 | 8.76 | 30.03 | 422.81 | - | 509.45 | 0.46 |
| 2030 | 42.35 | 7.83 | 28.58 | 401.40 | - | 480.16 | 0.37 |
| 2031 | 37.43 | 6.99 | 27.14 | 381.60 | - | 453.16 | 0.32 |
| 2032 | 33.08 | 6.24 | 25.67 | 362.90 | - | 427.89 | 0.31 |
| 2033 | 29.28 | 5.57 | 24.55 | 346.05 | - | 405.45 | 0.27 |
| 2034 | 25.96 | 4.97 | 23.30 | 326.61 | - | 380.83 | 0.25 |
| 2035 | 23.02 | 4.42 | 21.83 | 311.02 | - | 360.30 | 0.23 |
| 2036 | 70.17 | 3.93 | 23.18 | 292.32 | - | 389.59 | -0.01 |
| 2037 | 67.61 | 3.49 | 22.07 | 277.95 | - | 371.12 | 0.22 |
| 2038 | 60.13 | 3.09 | 20.61 | 263.45 | - | 347.27 | 0.15 |
| 2039 | 53.47 | 2.73 | 19.68 | 248.47 | - | 324.34 | 0.17 |
| 2040 | 47.51 | 2.40 | 18.73 | 214.79 | - | 283.44 | 0.16 |
| 2041 | 42.19 | 2.11 | 17.74 | 199.66 | - | 261.71 | 0.14 |
| 2042 | 36.47 | 1.85 | 16.88 | 185.12 | - | 240.32 | 0.08 |
| 2043 | 31.46 | 1.62 | 16.06 | 171.64 | - | 220.78 | 0.03 |
| 2044 | 27.24 | 1.41 | 15.30 | 159.14 | - | 203.08 | 0.02 |
| 2045 | 23.93 | 1.23 | 14.58 | 147.55 | - | 187.29 | 0.02 |
| 2046 | 21.22 | 1.09 | 13.90 | 136.80 | - | 173.01 | 0.02 |
| Total | 1,349.10 | 116.57 | 1,137.94 | 15,741.60 | - | 18,345.21 | |

*Assumes Low Cost of Capital is the base case compared to Low Cost of Capital Alternative 1 and Alternative 2.

**TAMPA ELECTRIC COMPANY
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High Cost of Capital: Polk Units 2-5

| Year | Annual Revenue Requirements (Generation Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (Transmission Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (O&M) (\$millions, 2012 \$) | Annual Revenue Requirements (Fuel) (\$millions, 2012 \$) | Annual Revenue Requirements (Environmental) (\$millions, 2012 \$) | Total (\$millions, 2012 \$) | Bill Impact (2012 \$/1,000 kWh)* |
|--------------|--|--|---|--|---|-----------------------------|----------------------------------|
| 2012 | - | - | 58.49 | 891.93 | - | 950.42 | 0.00 |
| 2013 | - | - | 56.64 | 846.43 | - | 903.08 | 0.00 |
| 2014 | - | - | 54.01 | 814.40 | - | 868.40 | 0.00 |
| 2015 | - | - | 50.66 | 787.74 | - | 838.40 | 0.00 |
| 2016 | - | - | 49.45 | 749.39 | - | 798.84 | 0.00 |
| 2017 | 65.98 | 19.98 | 46.77 | 672.79 | - | 805.52 | 0.00 |
| 2018 | 59.21 | 17.93 | 44.06 | 645.21 | - | 766.42 | 0.00 |
| 2019 | 68.93 | 16.01 | 43.79 | 621.53 | - | 750.26 | 0.00 |
| 2020 | 63.12 | 14.29 | 41.86 | 603.60 | - | 722.87 | 0.00 |
| 2021 | 56.24 | 12.76 | 39.67 | 584.25 | - | 692.91 | 0.00 |
| 2022 | 64.09 | 11.40 | 38.89 | 562.41 | - | 676.79 | 0.00 |
| 2023 | 58.52 | 10.18 | 37.16 | 541.92 | - | 647.77 | 0.00 |
| 2024 | 52.09 | 9.09 | 35.28 | 518.22 | - | 614.69 | 0.00 |
| 2025 | 58.49 | 8.11 | 34.87 | 500.58 | - | 602.06 | 0.00 |
| 2026 | 53.24 | 7.23 | 33.06 | 478.48 | - | 572.01 | 0.00 |
| 2027 | 47.25 | 6.44 | 31.42 | 456.81 | - | 541.93 | 0.00 |
| 2028 | 41.90 | 5.72 | 30.21 | 438.75 | - | 516.59 | 0.00 |
| 2029 | 47.16 | 5.08 | 29.52 | 422.99 | - | 504.74 | 0.00 |
| 2030 | 42.76 | 4.49 | 28.04 | 401.58 | - | 476.88 | 0.00 |
| 2031 | 37.77 | 3.97 | 26.67 | 382.12 | - | 450.53 | 0.00 |
| 2032 | 33.30 | 3.50 | 25.21 | 362.86 | - | 424.86 | 0.00 |
| 2033 | 29.31 | 3.08 | 24.14 | 346.24 | - | 402.76 | 0.00 |
| 2034 | 25.76 | 2.70 | 22.90 | 326.94 | - | 378.30 | 0.00 |
| 2035 | 22.63 | 2.36 | 21.47 | 311.29 | - | 357.74 | 0.00 |
| 2036 | 82.97 | 2.05 | 22.82 | 292.57 | - | 400.42 | 0.00 |
| 2037 | 73.96 | 1.79 | 21.65 | 278.00 | - | 375.40 | 0.00 |
| 2038 | 65.73 | 1.59 | 20.30 | 264.39 | - | 352.00 | 0.00 |
| 2039 | 58.44 | 1.41 | 19.38 | 248.63 | - | 327.86 | 0.00 |
| 2040 | 51.94 | 1.26 | 18.39 | 214.67 | - | 286.26 | 0.00 |
| 2041 | 46.17 | 1.11 | 17.45 | 199.64 | - | 264.38 | 0.00 |
| 2042 | 41.03 | 0.99 | 16.60 | 185.06 | - | 243.68 | 0.00 |
| 2043 | 36.44 | 0.87 | 15.80 | 171.56 | - | 224.66 | 0.00 |
| 2044 | 31.83 | 0.77 | 15.04 | 159.03 | - | 206.67 | 0.00 |
| 2045 | 28.00 | 0.68 | 14.33 | 147.42 | - | 190.44 | 0.00 |
| 2046 | 24.80 | 0.59 | 13.67 | 136.66 | - | 175.72 | 0.00 |
| Total | 1,469.05 | 177.42 | 1,099.66 | 15,566.11 | - | 18,312.24 | |

*Assumes High Cost of Capital is the base case compared to High Cost of Capital Alternative 1 and Alternative 2.

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High Cost of Capital: Alternative 2

| Year | Annual Revenue Requirements (Generation Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (Transmission Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (O&M) (\$millions, 2012 \$) | Annual Revenue Requirements (Fuel) (\$millions, 2012 \$) | Annual Revenue Requirements (Environmental) (\$millions, 2012 \$) | Total (\$millions, 2012 \$) | Bill Impact (2012 \$/1,000 kWh)* |
|--------------|--|--|---|--|---|-----------------------------|----------------------------------|
| 2012 | - | - | 58.49 | 891.93 | - | 950.42 | 0.00 |
| 2013 | - | - | 56.64 | 846.43 | - | 903.08 | 0.00 |
| 2014 | - | - | 54.01 | 814.40 | - | 868.40 | 0.00 |
| 2015 | - | - | 50.66 | 787.74 | - | 838.40 | 0.00 |
| 2016 | - | - | 49.47 | 748.02 | - | 797.49 | -0.07 |
| 2017 | 35.34 | - | 49.46 | 692.17 | - | 776.97 | -1.37 |
| 2018 | 51.87 | - | 47.60 | 664.39 | - | 763.85 | -0.12 |
| 2019 | 63.78 | - | 47.54 | 646.42 | - | 757.74 | 0.35 |
| 2020 | 58.18 | - | 45.53 | 630.05 | - | 733.76 | 0.50 |
| 2021 | 51.55 | - | 42.94 | 604.33 | - | 698.81 | 0.26 |
| 2022 | 59.66 | - | 42.28 | 585.50 | - | 687.45 | 0.49 |
| 2023 | 54.36 | - | 40.44 | 565.23 | - | 660.02 | 0.55 |
| 2024 | 48.16 | - | 38.52 | 542.26 | - | 628.94 | 0.64 |
| 2025 | 87.94 | 13.72 | 36.17 | 499.93 | - | 637.76 | 1.59 |
| 2026 | 78.35 | 12.32 | 34.35 | 477.92 | - | 602.93 | 1.36 |
| 2027 | 69.55 | 10.99 | 32.67 | 456.98 | - | 570.20 | 1.24 |
| 2028 | 61.70 | 9.81 | 31.37 | 438.63 | - | 541.50 | 1.08 |
| 2029 | 54.67 | 8.76 | 30.03 | 422.81 | - | 516.27 | 0.50 |
| 2030 | 48.38 | 7.83 | 28.58 | 401.40 | - | 486.19 | 0.40 |
| 2031 | 42.76 | 6.99 | 27.14 | 381.60 | - | 458.49 | 0.34 |
| 2032 | 37.78 | 6.24 | 25.67 | 362.90 | - | 432.60 | 0.33 |
| 2033 | 33.44 | 5.57 | 24.55 | 346.05 | - | 409.61 | 0.29 |
| 2034 | 29.65 | 4.97 | 23.30 | 326.61 | - | 384.52 | 0.27 |
| 2035 | 26.30 | 4.42 | 21.83 | 311.02 | - | 363.57 | 0.25 |
| 2036 | 80.45 | 3.93 | 23.18 | 292.32 | - | 399.87 | -0.02 |
| 2037 | 77.52 | 3.49 | 22.07 | 277.95 | - | 381.03 | 0.24 |
| 2038 | 68.95 | 3.09 | 20.61 | 263.45 | - | 356.09 | 0.17 |
| 2039 | 61.31 | 2.73 | 19.68 | 248.47 | - | 332.18 | 0.18 |
| 2040 | 54.48 | 2.40 | 18.73 | 214.79 | - | 290.41 | 0.18 |
| 2041 | 48.38 | 2.11 | 17.74 | 199.66 | - | 267.90 | 0.15 |
| 2042 | 41.82 | 1.85 | 16.88 | 185.12 | - | 245.67 | 0.08 |
| 2043 | 36.07 | 1.62 | 16.06 | 171.64 | - | 225.39 | 0.03 |
| 2044 | 31.23 | 1.41 | 15.30 | 159.14 | - | 207.07 | 0.02 |
| 2045 | 27.44 | 1.23 | 14.58 | 147.55 | - | 190.80 | 0.02 |
| 2046 | 24.33 | 1.09 | 13.90 | 136.80 | - | 176.12 | 0.02 |
| Total | 1,545.38 | 116.57 | 1,137.94 | 15,741.60 | - | 18,541.49 | |

*Assumes High Cost of Capital is the base case compared to High Cost of Capital Alternative 1 and Alternative 2.

**TAMPA ELECTRIC COMPANY
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Low Fuel: Alternative 2

| Year | Annual Revenue Requirements (Generation Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (Transmission Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (O&M) (\$millions, 2012 \$) | Annual Revenue Requirements (Fuel) (\$millions, 2012 \$) | Annual Revenue Requirements (Environmental) (\$millions, 2012 \$) | Total (\$millions, 2012 \$) | Bill Impact (2012 \$/1,000 kWh)* |
|--------------|--|--|---|--|---|-----------------------------|----------------------------------|
| 2012 | - | - | 58.51 | 772.24 | - | 830.75 | 0.00 |
| 2013 | - | - | 56.59 | 679.36 | - | 735.95 | 0.00 |
| 2014 | - | - | 53.97 | 645.03 | - | 699.00 | 0.00 |
| 2015 | - | - | 50.65 | 633.98 | - | 684.63 | 0.00 |
| 2016 | - | - | 49.49 | 596.68 | - | 646.17 | -0.08 |
| 2017 | 33.36 | - | 49.46 | 553.10 | - | 635.92 | -1.64 |
| 2018 | 48.97 | - | 47.59 | 523.33 | - | 619.88 | -0.45 |
| 2019 | 60.21 | - | 47.53 | 516.24 | - | 623.98 | -0.06 |
| 2020 | 54.92 | - | 45.55 | 510.70 | - | 611.17 | 0.05 |
| 2021 | 48.66 | - | 42.97 | 496.80 | - | 588.43 | -0.09 |
| 2022 | 56.33 | - | 42.33 | 489.87 | - | 588.52 | 0.09 |
| 2023 | 51.32 | - | 40.47 | 472.54 | - | 564.33 | 0.15 |
| 2024 | 45.46 | - | 38.69 | 455.99 | - | 540.15 | 0.44 |
| 2025 | 83.18 | 13.72 | 36.30 | 420.89 | - | 554.10 | 1.53 |
| 2026 | 74.11 | 12.32 | 34.41 | 401.66 | - | 522.50 | 1.31 |
| 2027 | 65.79 | 10.99 | 32.69 | 383.64 | - | 493.12 | 1.18 |
| 2028 | 58.36 | 9.81 | 31.38 | 368.72 | - | 468.28 | 1.03 |
| 2029 | 51.72 | 8.76 | 30.07 | 352.29 | - | 442.84 | 0.49 |
| 2030 | 45.77 | 7.83 | 28.59 | 337.61 | - | 419.79 | 0.38 |
| 2031 | 40.45 | 6.99 | 27.18 | 320.28 | - | 394.90 | 0.35 |
| 2032 | 35.75 | 6.24 | 25.73 | 302.63 | - | 370.35 | 0.32 |
| 2033 | 31.64 | 5.57 | 24.58 | 289.70 | - | 351.49 | 0.28 |
| 2034 | 28.05 | 4.97 | 23.32 | 275.45 | - | 331.79 | 0.26 |
| 2035 | 24.88 | 4.42 | 21.87 | 257.17 | - | 308.34 | 0.25 |
| 2036 | 81.65 | 3.93 | 22.58 | 237.42 | - | 345.58 | 0.23 |
| 2037 | 72.90 | 3.49 | 21.94 | 225.66 | - | 323.99 | 0.24 |
| 2038 | 64.83 | 3.09 | 20.61 | 206.59 | - | 295.11 | 0.15 |
| 2039 | 57.63 | 2.73 | 19.65 | 194.73 | - | 274.75 | 0.21 |
| 2040 | 51.20 | 2.40 | 18.66 | 184.15 | - | 256.42 | 0.15 |
| 2041 | 45.46 | 2.11 | 17.67 | 173.28 | - | 238.52 | 0.14 |
| 2042 | 39.28 | 1.85 | 16.92 | 162.71 | - | 220.77 | 0.08 |
| 2043 | 33.87 | 1.62 | 16.23 | 152.80 | - | 204.51 | 0.03 |
| 2044 | 29.31 | 1.41 | 15.60 | 143.48 | - | 189.80 | 0.02 |
| 2045 | 25.75 | 1.23 | 15.01 | 134.73 | - | 176.72 | 0.02 |
| 2046 | 22.81 | 1.09 | 14.47 | 126.52 | - | 164.90 | 0.03 |
| Total | 1,463.63 | 116.57 | 1,139.28 | 12,997.95 | - | 15,717.43 | |

*Assumes Low Fuel is the base case compared to Low Fuel Alternative 1 and Alternative 2.

**TAMPA ELECTRIC COMPANY
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High Fuel: Alternative 2

| Year | Annual Revenue Requirements (Generation Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (Transmission Capital) (\$millions, 2012 \$) | Annual Revenue Requirements (O&M) (\$millions, 2012 \$) | Annual Revenue Requirements (Fuel) (\$millions, 2012 \$) | Annual Revenue Requirements (Environmental) (\$millions, 2012 \$) | Total (\$millions, 2012 \$) | Bill Impact (2012 \$/1,000 kWh)* |
|--------------|--|--|---|--|---|-----------------------------|----------------------------------|
| 2012 | - | - | 58.39 | 993.59 | - | 1,051.98 | 0.00 |
| 2013 | - | - | 56.57 | 1,013.73 | - | 1,070.30 | 0.00 |
| 2014 | - | - | 53.96 | 966.59 | - | 1,020.56 | 0.00 |
| 2015 | - | - | 50.63 | 951.72 | - | 1,002.36 | 0.00 |
| 2016 | - | - | 49.44 | 899.71 | - | 949.15 | -0.05 |
| 2017 | 33.36 | - | 49.47 | 842.51 | - | 925.34 | -0.95 |
| 2018 | 48.97 | - | 47.60 | 803.29 | - | 899.85 | 0.24 |
| 2019 | 60.21 | - | 47.56 | 792.91 | - | 900.69 | 0.80 |
| 2020 | 54.92 | - | 45.56 | 780.52 | - | 881.01 | 0.99 |
| 2021 | 48.66 | - | 43.22 | 755.05 | - | 846.93 | 0.63 |
| 2022 | 56.33 | - | 42.63 | 737.23 | - | 836.19 | 0.90 |
| 2023 | 51.32 | - | 40.80 | 709.83 | - | 801.95 | 0.98 |
| 2024 | 45.46 | - | 39.05 | 682.94 | - | 767.45 | 1.24 |
| 2025 | 83.18 | 13.72 | 36.35 | 622.93 | - | 756.19 | 1.52 |
| 2026 | 74.11 | 12.32 | 34.44 | 595.02 | - | 715.89 | 1.32 |
| 2027 | 65.79 | 10.99 | 32.70 | 566.99 | - | 676.48 | 1.17 |
| 2028 | 58.36 | 9.81 | 31.41 | 542.80 | - | 642.39 | 1.03 |
| 2029 | 51.72 | 8.76 | 30.15 | 525.18 | - | 615.81 | 0.50 |
| 2030 | 45.77 | 7.83 | 28.62 | 494.52 | - | 576.73 | 0.38 |
| 2031 | 40.45 | 6.99 | 27.22 | 470.39 | - | 545.05 | 0.35 |
| 2032 | 35.75 | 6.24 | 25.76 | 447.24 | - | 514.98 | 0.32 |
| 2033 | 31.64 | 5.57 | 24.58 | 424.62 | - | 486.41 | 0.28 |
| 2034 | 28.05 | 4.97 | 23.31 | 398.55 | - | 454.88 | 0.26 |
| 2035 | 24.88 | 4.42 | 21.88 | 384.00 | - | 435.18 | 0.26 |
| 2036 | 81.65 | 3.93 | 22.81 | 364.87 | - | 473.26 | 0.25 |
| 2037 | 72.90 | 3.49 | 22.50 | 345.95 | - | 444.83 | 0.24 |
| 2038 | 64.83 | 3.09 | 21.03 | 333.07 | - | 422.01 | 0.14 |
| 2039 | 57.63 | 2.73 | 19.87 | 315.55 | - | 395.78 | 0.21 |
| 2040 | 51.20 | 2.40 | 18.92 | 297.53 | - | 370.06 | 0.16 |
| 2041 | 45.46 | 2.11 | 17.88 | 281.94 | - | 347.40 | 0.14 |
| 2042 | 39.28 | 1.85 | 17.13 | 267.78 | - | 326.04 | 0.07 |
| 2043 | 33.87 | 1.62 | 16.43 | 254.33 | - | 306.25 | 0.02 |
| 2044 | 29.31 | 1.41 | 15.79 | 241.55 | - | 288.06 | 0.01 |
| 2045 | 25.75 | 1.23 | 15.20 | 229.42 | - | 271.59 | 0.01 |
| 2046 | 22.81 | 1.09 | 14.66 | 217.89 | - | 256.45 | 0.02 |
| Total | 1,463.63 | 116.57 | 1,143.54 | 19,551.77 | - | 22,275.50 | |

*Assumes High Fuel is the base case compared to High Fuel Alternative 1 and Alternative 2.



**Tampa Electric Company's
Determination of Need for
Electrical Power: Polk 2-5
Combined Cycle Conversion**

Filed: September 12, 2012

Table 7: CPWRR Based on Capital Cost Sensitivities (\$ million)

| | Polk 2-5 Conversion | Alternative 1 | Alternative 2 |
|------------------------------|--------------------------------|--------------------------|--------------------------|
| Low Capital Cost | 18,127 | 18,417 | 18,345 |
| Delta | | 289 | 218 |
| High Capital Cost | 18,312 | 18,592 | 18,541 |
| Delta | | 280 | 229 |

2. Fuel Price Sensitivity

To evaluate fuel price fluctuations, Tampa Electric prepared high and low price forecasts for coal, natural gas and oil. Appendices G and H include the low and high fuel forecasts, respectively. The high case for natural gas and oil is 35 percent higher than the base case and the low case is 35 percent lower than the base case. Solid fuel commodity pricing is 20 percent higher and lower than the base case, respectively. The results of the fuel sensitivity analysis are provided below:

Table 8: CPWRR Based on Fuel Pricing Sensitivities (2012 \$ million)

| | Polk 2-5 Conversion | Alternative 1 | Alternative 2 |
|-----------------------|--------------------------------|--------------------------|--------------------------|
| Low Fuel Cost | 15,550 | 15,656 | 15,717 |
| Delta | | 106 | 167 |
| High Fuel Cost | 21,972 | 22,454 | 22,276 |
| Delta | | 482 | 304 |

3. Load Sensitivity

The base case load sensitivity is tested for sensitivity to varying economic conditions and customer growth rates. The high and low peak demand and energy sensitivities represent alternatives to the company's base case outlook. Compared to the base case, the expected economic growth rates

1 other factors constant while applying the targeted
 2 sensitivities to the recommended plan and alternate plans to
 3 determine the total systems costs and compare the 30-year
 4 CPWRR.

5
 6 **Q.** Please describe the results of the IRP sensitivity analyses.

7
 8 **A.** After completion of the six sensitivity cases mentioned
 9 above, Polk 2-5 was found to be the most economical choice in
 10 all cases. When comparing Polk 2-5 to the two alternate
 11 plans in the capital cost sensitivities, Polk 2-5 showed
 12 savings of \$217.7 million (low cost) and \$229.3 million (high
 13 cost) in CPWRR compared to the next most cost-effective
 14 option. When comparing Polk 2-5 to the two alternate plans
 15 in the customer demand and energy sensitivities, Polk 2-5
 16 showed savings of \$283.9 million (low demand) and \$75.6
 17 million (high demand) in CPWRR compared to the next most
 18 cost-effective option. When comparing Polk 2-5 to the two
 19 alternate plans in the fuel price sensitivities, Polk 2-5
 20 showed savings of \$106.2 million (low fuel cost) and \$304.0
 21 million (high fuel cost) in CPWRR compared to the next most
 22 cost-effective option. A summary of the economic sensitivity
 23 analysis is shown in Document No. 9 of my exhibit.

24
 25 **RESOURCE REQUEST FOR PROPOSALS**

TAMPA ELECTRIC COMPANY
DOCKET NO. 12 _____-EI
EXHIBIT NO. _____ (RJR-1)
DOCUMENT NO. 9
FILED: 09/12/2012
REVISED: 11/20/2012

DOCUMENT NO. 9

IRP SENSITIVITY ANALYSIS

IRP Sensitivity Analysis

CPWRR (\$ million)

| | Polk 2-5 | Alternative 1 | Alternative 2 |
|-------------------------------------|------------|---------------|---------------|
| Capital Costs Sensitivities: | | | |
| Low | \$18,127.5 | \$18,416.9 | \$18,345.2 |
| Delta | | \$289.4 | \$217.7 |
| High | \$18,312.2 | \$18,592.1 | \$18,541.5 |
| Delta | | \$279.9 | \$229.3 |

| | Polk 2-5 | Alternative 1 | Alternative 2 |
|--------------------------------------|------------|---------------|---------------|
| Customer Demand Sensitivities | | | |
| Low | \$16,857.1 | \$17,141.0 | \$17,168.7 |
| Delta | | \$283.9 | \$311.6 |
| High | \$19,791.6 | \$20,356.6 | \$19,867.2 |
| Delta | | \$565.0 | \$75.6 |

| | Polk 2-5 | Alternative 1 | Alternative 2 |
|---------------------------------|------------|---------------|---------------|
| Fuel Costs Sensitivities | | | |
| Low | \$15,549.6 | \$15,655.8 | \$15,717.4 |
| Delta | | \$106.2 | \$167.8 |
| High | \$21,971.5 | \$22,453.5 | \$22,275.5 |
| Delta | | \$482.1 | \$304.0 |