



**William P. Cox**  
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May 12, 2015

**STAFF'S FIRST DATA REQUEST**

**-VIA ELECTRONIC FILING-**

Ms. Ann Cole, Director  
Division of the Commission Clerk and Administrative Services  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399-0850

Re: Docket No. 150108-EQ - Florida Power & Light Company's Petition for Approval  
of a Renewable Energy Tariff and Standard Offer Contract

Dear Ms. Cole:

Please find enclosed for filing a copy of Florida Power & Light Company's responses to  
Staff's First Set of Data Request in the above mentioned docket.

Thank you for your assistance. Please contact me should you or your staff have any  
questions regarding this filing.

Sincerely,

*s/ William P. Cox* \_\_\_\_\_

William P. Cox  
Senior Attorney  
Florida Bar No. 0093531

WPC/msw  
Enclosures

**Data Request No. 1:** Please complete the following tables describing payments to a renewable provider based on the proposed tariffs included in the company's revised standard offer contract. Please assume a renewable generator with a 50 MW output providing firm capacity with an in-service date of January 1, 2016, operating at the minimum capacity factor required for full capacity payments and a contract duration of 20 years. Please state the capacity factor assumed for the calculations. Please calculate the total Net Present Value (NPV) of all payments in 2016 dollars, and also provide an explanation of the method and rate used to calculate the NPV.

Please provide the completed table for the following five scenarios:

- As-available energy (energy only payments)
- Normal capacity and energy payments
- Levelized payments
- Early payments
- Early levelized payments

**FPL's Response:** Please see Attachment A.

**ATTACHMENT A**

**FPL's Response to Staff's First Data Request No. 1**

Docket No. 150108-EQ Staff's First Data Request - Question 1  
 2019 Combined Cycle Avoided Unit

Committed Capacity (MW) 50  
 Capacity Factor (%) 96%  
 Payment Type: Energy Only

|                                | Energy    | Capacity Rates | Total Capacity Payments | Energy Rates | Total Energy Payments | Total Payments |
|--------------------------------|-----------|----------------|-------------------------|--------------|-----------------------|----------------|
|                                | (MWh)     | (\$/kW-mo)     | (\$)                    | (\$/MWh)     | (\$)                  | (\$)           |
| 2016                           | 421,632   | -              | -                       | 38.36        | 16,172,047            | 16,172,047     |
| 2017                           | 420,480   | -              | -                       | 28.88        | 12,144,514            | 12,144,514     |
| 2018                           | 420,480   | -              | -                       | 31.72        | 13,339,027            | 13,339,027     |
| 2019                           | 420,480   | -              | -                       | 41.20        | 17,324,126            | 17,324,126     |
| 2020                           | 421,632   | -              | -                       | 43.02        | 18,140,014            | 18,140,014     |
| 2021                           | 420,480   | -              | -                       | 45.77        | 19,244,318            | 19,244,318     |
| 2022                           | 420,480   | -              | -                       | 52.55        | 22,095,523            | 22,095,523     |
| 2023                           | 420,480   | -              | -                       | 56.76        | 23,866,795            | 23,866,795     |
| 2024                           | 421,632   | -              | -                       | 53.08        | 22,381,983            | 22,381,983     |
| 2025                           | 420,480   | -              | -                       | 54.17        | 22,777,402            | 22,777,402     |
| 2026                           | 420,480   | -              | -                       | 52.61        | 22,121,803            | 22,121,803     |
| 2027                           | 420,480   | -              | -                       | 54.38        | 22,865,002            | 22,865,002     |
| 2028                           | 421,632   | -              | -                       | 53.26        | 22,457,174            | 22,457,174     |
| 2029                           | 420,480   | -              | -                       | 55.13        | 23,181,763            | 23,181,763     |
| 2030                           | 420,480   | -              | -                       | 61.28        | 25,767,014            | 25,767,014     |
| 2031                           | 420,480   | -              | -                       | 64.29        | 27,033,360            | 27,033,360     |
| 2032                           | 421,632   | -              | -                       | 66.91        | 28,210,694            | 28,210,694     |
| 2033                           | 420,480   | -              | -                       | 70.76        | 29,753,866            | 29,753,866     |
| 2034                           | 420,480   | -              | -                       | 73.28        | 30,813,826            | 30,813,826     |
| 2035                           | 420,480   | -              | -                       | 75.98        | 31,947,720            | 31,947,720     |
| Total                          | 7,994,880 | -              | -                       |              | 419,690,252           | 419,690,252    |
| 2016 NPV @ 7.51% discount rate |           |                | -                       |              | 201,751,085           | 201,751,085    |

**Docket No. 150108-EQ Staff's First Data Request - Question 1  
2019 Combined Cycle Avoided Unit**

**Committed Capacity (MW) 50**  
**Capacity Factor (%) 96%**  
**Payment Type: Normal**

|                                       | <b>Energy</b> | <b>Capacity Rates</b> | <b>Total Capacity Payments</b> | <b>Energy Rates</b> | <b>Total Energy Payments</b> | <b>Total Payments</b> |
|---------------------------------------|---------------|-----------------------|--------------------------------|---------------------|------------------------------|-----------------------|
|                                       | <b>(MWh)</b>  | <b>(\$/kW-mo)</b>     | <b>(\$)</b>                    | <b>(\$/MWh)</b>     | <b>(\$)</b>                  | <b>(\$)</b>           |
| <b>2016</b>                           | 421,632       | -                     | -                              | 38.36               | 16,172,047                   | 16,172,047            |
| <b>2017</b>                           | 420,480       | -                     | -                              | 28.88               | 12,144,514                   | 12,144,514            |
| <b>2018</b>                           | 420,480       | -                     | -                              | 31.72               | 13,339,027                   | 13,339,027            |
| <b>2019</b>                           | 420,480       | 6.91                  | 4,144,458                      | 34.48               | 14,497,272                   | 18,641,729            |
| <b>2020</b>                           | 421,632       | 7.05                  | 4,227,347                      | 32.53               | 13,713,898                   | 17,941,245            |
| <b>2021</b>                           | 420,480       | 7.19                  | 4,311,894                      | 35.00               | 14,714,988                   | 19,026,882            |
| <b>2022</b>                           | 420,480       | 7.33                  | 4,398,132                      | 36.90               | 15,513,880                   | 19,912,012            |
| <b>2023</b>                           | 420,480       | 7.48                  | 4,486,094                      | 38.35               | 16,126,364                   | 20,612,459            |
| <b>2024</b>                           | 421,632       | 7.63                  | 4,575,816                      | 39.49               | 16,651,195                   | 21,227,011            |
| <b>2025</b>                           | 420,480       | 7.78                  | 4,667,333                      | 40.70               | 17,111,665                   | 21,778,997            |
| <b>2026</b>                           | 420,480       | 7.93                  | 4,760,679                      | 41.90               | 17,617,630                   | 22,378,309            |
| <b>2027</b>                           | 420,480       | 8.09                  | 4,855,893                      | 43.17               | 18,150,225                   | 23,006,118            |
| <b>2028</b>                           | 421,632       | 8.26                  | 4,953,011                      | 44.43               | 18,734,005                   | 23,687,016            |
| <b>2029</b>                           | 420,480       | 8.42                  | 5,052,071                      | 45.76               | 19,242,044                   | 24,294,115            |
| <b>2030</b>                           | 420,480       | 8.59                  | 5,153,112                      | 47.09               | 19,801,269                   | 24,954,381            |
| <b>2031</b>                           | 420,480       | 8.76                  | 5,256,175                      | 48.49               | 20,387,123                   | 25,643,298            |
| <b>2032</b>                           | 421,632       | 8.94                  | 5,361,298                      | 49.88               | 21,030,438                   | 26,391,736            |
| <b>2033</b>                           | 420,480       | 9.11                  | 5,468,524                      | 51.34               | 21,585,462                   | 27,053,986            |
| <b>2034</b>                           | 420,480       | 9.30                  | 5,577,894                      | 52.35               | 22,011,537                   | 27,589,432            |
| <b>2035</b>                           | 420,480       | 9.48                  | 5,689,452                      | 53.36               | 22,437,613                   | 28,127,066            |
| <b>Total</b>                          | 7,994,880     |                       | 77,249,730                     |                     | 328,544,581                  | 405,794,312           |
| <b>2016 NPV @ 7.51% discount rate</b> |               |                       | 34,444,862                     |                     | 162,057,394                  | 196,502,256           |

**Docket No. 150108-EQ Staff's First Data Request - Question 1  
2019 Combined Cycle Avoided Unit**

**Committed Capacity (MW) 50**  
**Capacity Factor (%) 96%**  
**Payment Type: Levelized**

|                                       | <b>Energy</b> | <b>Capacity Rates</b> | <b>Total Capacity Payments</b> | <b>Energy Rates</b> | <b>Total Energy Payments</b> | <b>Total Payments</b> |
|---------------------------------------|---------------|-----------------------|--------------------------------|---------------------|------------------------------|-----------------------|
|                                       | <b>(MWh)</b>  | <b>(\$/kW-mo)</b>     | <b>(\$)</b>                    | <b>(\$/MWh)</b>     | <b>(\$)</b>                  | <b>(\$)</b>           |
| <b>2016</b>                           | 421,632       | -                     | -                              | 38.36               | 16,172,047                   | 16,172,047            |
| <b>2017</b>                           | 420,480       | -                     | -                              | 28.88               | 12,144,514                   | 12,144,514            |
| <b>2018</b>                           | 420,480       | -                     | -                              | 31.72               | 13,339,027                   | 13,339,027            |
| <b>2019</b>                           | 420,480       | 7.81                  | 4,685,229                      | 34.48               | 14,497,272                   | 19,182,501            |
| <b>2020</b>                           | 421,632       | 7.81                  | 4,685,229                      | 32.53               | 13,713,898                   | 18,399,127            |
| <b>2021</b>                           | 420,480       | 7.81                  | 4,685,229                      | 35.00               | 14,714,988                   | 19,400,217            |
| <b>2022</b>                           | 420,480       | 7.81                  | 4,685,229                      | 36.90               | 15,513,880                   | 20,199,110            |
| <b>2023</b>                           | 420,480       | 7.81                  | 4,685,229                      | 38.35               | 16,126,364                   | 20,811,594            |
| <b>2024</b>                           | 421,632       | 7.81                  | 4,685,229                      | 39.49               | 16,651,195                   | 21,336,424            |
| <b>2025</b>                           | 420,480       | 7.81                  | 4,685,229                      | 40.70               | 17,111,665                   | 21,796,894            |
| <b>2026</b>                           | 420,480       | 7.81                  | 4,685,229                      | 41.90               | 17,617,630                   | 22,302,859            |
| <b>2027</b>                           | 420,480       | 7.81                  | 4,685,229                      | 43.17               | 18,150,225                   | 22,835,454            |
| <b>2028</b>                           | 421,632       | 7.81                  | 4,685,229                      | 44.43               | 18,734,005                   | 23,419,235            |
| <b>2029</b>                           | 420,480       | 7.81                  | 4,685,229                      | 45.76               | 19,242,044                   | 23,927,274            |
| <b>2030</b>                           | 420,480       | 7.81                  | 4,685,229                      | 47.09               | 19,801,269                   | 24,486,498            |
| <b>2031</b>                           | 420,480       | 7.81                  | 4,685,229                      | 48.49               | 20,387,123                   | 25,072,353            |
| <b>2032</b>                           | 421,632       | 7.81                  | 4,685,229                      | 49.88               | 21,030,438                   | 25,715,667            |
| <b>2033</b>                           | 420,480       | 7.81                  | 4,685,229                      | 51.34               | 21,585,462                   | 26,270,691            |
| <b>2034</b>                           | 420,480       | 7.81                  | 4,685,229                      | 52.35               | 22,011,537                   | 26,696,767            |
| <b>2035</b>                           | 420,480       | 7.81                  | 4,685,229                      | 53.36               | 22,437,613                   | 27,122,843            |
| <b>Total</b>                          | 7,994,880     |                       | 74,963,671                     |                     | 328,544,581                  | 403,508,253           |
| <b>2016 NPV @ 7.51% discount rate</b> |               |                       | 34,444,466                     |                     | 162,057,394                  | 196,501,860           |

**Docket No. 150108-EQ Staff's First Data Request - Question 1  
2019 Combined Cycle Avoided Unit**

**Committed Capacity (MW) 50**  
**Capacity Factor (%) 96%**  
**Payment Type: Early**

|                                       | <b>Energy</b> | <b>Capacity Rates</b> | <b>Total Capacity Payments</b> | <b>Energy Rates</b> | <b>Total Energy Payments</b> | <b>Total Payments</b> |
|---------------------------------------|---------------|-----------------------|--------------------------------|---------------------|------------------------------|-----------------------|
|                                       | <b>(MWh)</b>  | <b>(\$/kW-mo)</b>     | <b>(\$)</b>                    | <b>(\$/MWh)</b>     | <b>(\$)</b>                  | <b>(\$)</b>           |
| <b>2016</b>                           | 421,632       | 5.01                  | 3,003,142                      | 38.36               | 16,172,047                   | 19,175,189            |
| <b>2017</b>                           | 420,480       | 5.11                  | 3,063,205                      | 28.88               | 12,144,514                   | 15,207,719            |
| <b>2018</b>                           | 420,480       | 5.21                  | 3,124,469                      | 31.72               | 13,339,027                   | 16,463,496            |
| <b>2019</b>                           | 420,480       | 5.31                  | 3,186,958                      | 34.48               | 14,497,272                   | 17,684,230            |
| <b>2020</b>                           | 421,632       | 5.42                  | 3,250,698                      | 32.53               | 13,713,898                   | 16,964,595            |
| <b>2021</b>                           | 420,480       | 5.53                  | 3,315,712                      | 35.00               | 14,714,988                   | 18,030,700            |
| <b>2022</b>                           | 420,480       | 5.64                  | 3,382,026                      | 36.90               | 15,513,880                   | 18,895,906            |
| <b>2023</b>                           | 420,480       | 5.75                  | 3,449,666                      | 38.35               | 16,126,364                   | 19,576,031            |
| <b>2024</b>                           | 421,632       | 5.86                  | 3,518,660                      | 39.49               | 16,651,195                   | 20,169,854            |
| <b>2025</b>                           | 420,480       | 5.98                  | 3,589,033                      | 40.70               | 17,111,665                   | 20,700,698            |
| <b>2026</b>                           | 420,480       | 6.10                  | 3,660,814                      | 41.90               | 17,617,630                   | 21,278,443            |
| <b>2027</b>                           | 420,480       | 6.22                  | 3,734,030                      | 43.17               | 18,150,225                   | 21,884,255            |
| <b>2028</b>                           | 421,632       | 6.35                  | 3,808,710                      | 44.43               | 18,734,005                   | 22,542,716            |
| <b>2029</b>                           | 420,480       | 6.47                  | 3,884,885                      | 45.76               | 19,242,044                   | 23,126,929            |
| <b>2030</b>                           | 420,480       | 6.60                  | 3,962,582                      | 47.09               | 19,801,269                   | 23,763,851            |
| <b>2031</b>                           | 420,480       | 6.74                  | 4,041,834                      | 48.49               | 20,387,123                   | 24,428,957            |
| <b>2032</b>                           | 421,632       | 6.87                  | 4,122,671                      | 49.88               | 21,030,438                   | 25,153,108            |
| <b>2033</b>                           | 420,480       | 7.01                  | 4,205,124                      | 51.34               | 21,585,462                   | 25,790,586            |
| <b>2034</b>                           | 420,480       | 7.15                  | 4,289,227                      | 52.35               | 22,011,537                   | 26,300,764            |
| <b>2035</b>                           | 420,480       | 7.29                  | 4,375,011                      | 53.36               | 22,437,613                   | 26,812,624            |
| <b>Total</b>                          | 7,994,880     |                       | 68,593,445                     |                     | 328,544,581                  | 397,138,026           |
| <b>2016 NPV @ 7.51% discount rate</b> |               |                       | 34,444,954                     |                     | 162,057,394                  | 196,502,347           |

**Docket No. 150108-EQ Staff's First Data Request - Question 1  
2019 Combined Cycle Avoided Unit**

**Committed Capacity (MW) 50  
Capacity Factor (%) 96%  
Payment Type: Early Levelized**

|                                       | <b>Energy</b> | <b>Capacity Rates</b> | <b>Total Capacity Payments</b> | <b>Energy Rates</b> | <b>Total Energy Payments</b> | <b>Total Payments</b> |
|---------------------------------------|---------------|-----------------------|--------------------------------|---------------------|------------------------------|-----------------------|
| <b>2016</b>                           | 421,632       | 5.77                  | 3,461,137                      | 38.36               | 16,172,047                   | 19,633,184            |
| <b>2017</b>                           | 420,480       | 5.77                  | 3,461,137                      | 28.88               | 12,144,514                   | 15,605,651            |
| <b>2018</b>                           | 420,480       | 5.77                  | 3,461,137                      | 31.72               | 13,339,027                   | 16,800,164            |
| <b>2019</b>                           | 420,480       | 5.77                  | 3,461,137                      | 34.48               | 14,497,272                   | 17,958,409            |
| <b>2020</b>                           | 421,632       | 5.77                  | 3,461,137                      | 32.53               | 13,713,898                   | 17,175,035            |
| <b>2021</b>                           | 420,480       | 5.77                  | 3,461,137                      | 35.00               | 14,714,988                   | 18,176,125            |
| <b>2022</b>                           | 420,480       | 5.77                  | 3,461,137                      | 36.90               | 15,513,880                   | 18,975,017            |
| <b>2023</b>                           | 420,480       | 5.77                  | 3,461,137                      | 38.35               | 16,126,364                   | 19,587,501            |
| <b>2024</b>                           | 421,632       | 5.77                  | 3,461,137                      | 39.49               | 16,651,195                   | 20,112,332            |
| <b>2025</b>                           | 420,480       | 5.77                  | 3,461,137                      | 40.70               | 17,111,665                   | 20,572,802            |
| <b>2026</b>                           | 420,480       | 5.77                  | 3,461,137                      | 41.90               | 17,617,630                   | 21,078,767            |
| <b>2027</b>                           | 420,480       | 5.77                  | 3,461,137                      | 43.17               | 18,150,225                   | 21,611,362            |
| <b>2028</b>                           | 421,632       | 5.77                  | 3,461,137                      | 44.43               | 18,734,005                   | 22,195,142            |
| <b>2029</b>                           | 420,480       | 5.77                  | 3,461,137                      | 45.76               | 19,242,044                   | 22,703,181            |
| <b>2030</b>                           | 420,480       | 5.77                  | 3,461,137                      | 47.09               | 19,801,269                   | 23,262,406            |
| <b>2031</b>                           | 420,480       | 5.77                  | 3,461,137                      | 48.49               | 20,387,123                   | 23,848,260            |
| <b>2032</b>                           | 421,632       | 5.77                  | 3,461,137                      | 49.88               | 21,030,438                   | 24,491,575            |
| <b>2033</b>                           | 420,480       | 5.77                  | 3,461,137                      | 51.34               | 21,585,462                   | 25,046,599            |
| <b>2034</b>                           | 420,480       | 5.77                  | 3,461,137                      | 52.35               | 22,011,537                   | 25,472,674            |
| <b>2035</b>                           | 420,480       | 5.77                  | 3,461,137                      | 53.36               | 22,437,613                   | 25,898,750            |
| <b>Total</b>                          | 7,994,880     |                       | 65,761,604                     |                     | 328,544,581                  | 394,306,185           |
| <b>2016 NPV @ 7.51% discount rate</b> |               |                       | 34,444,431                     |                     | 162,057,394                  | 196,501,824           |