



MATTHEW R. BERNIER  
SENIOR COUNSEL

May 25, 2017

**VIA ELECTRONIC FILING**

Ms. Carlotta Stauffer, Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

Re: Docket No.: 170001  
Performance Data Report for April 2017

Dear Ms. Stauffer:

Attached for filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for April 2017.

If you have any questions, please do not hesitate to contact me at (850) 521-1428.

Sincerely,

*/s/ Matthew R. Bernier*

Matthew R. Bernier  
Senior Counsel

MRB/db  
Attachment

cc: Daniel Lee, Division of Engineering, FPSC  
Parties of Record

CERTIFICATE OF SERVICE

Docket No. 170001-EI

I HEREBY CERTIFY that a true copy of Duke Energy Florida, LLC's Performance Data Report for the month of April 2017 has been furnished to the following individuals via e-mail on this 25th day of May, 2017.

/s/ Matthew R. Bernier

Attorney

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| <p>Suzanne S. Brownless<br/>Danijela Janjic<br/>Office of General Counsel<br/>Florida Public Service Commission<br/>2540 Shumard Oak Blvd.<br/>Tallahassee, FL 32399-0850<br/><a href="mailto:sbrownle@psc.state.fl.us">sbrownle@psc.state.fl.us</a><br/><a href="mailto:djanjic@psc.state.fl.us">djanjic@psc.state.fl.us</a><br/><a href="mailto:asoete@psc.state.fl.us">asoete@psc.state.fl.us</a></p> <p>James D. Beasley<br/>J. Jeffry Wahlen<br/>Ausley McMullen<br/>P.O. Box 391<br/>Tallahassee, FL 32302<br/><a href="mailto:jbeasley@ausley.com">jbeasley@ausley.com</a><br/><a href="mailto:jwahlen@ausley.com">jwahlen@ausley.com</a></p> <p>Jeffrey A. Stone<br/>Russell A. Badders<br/>Steven R. Griffin<br/>Beggs &amp; Lane<br/>P.O. Box 12950<br/>Pensacola, FL 32591<br/><a href="mailto:jas@beggslane.com">jas@beggslane.com</a><br/><a href="mailto:rab@beggslane.com">rab@beggslane.com</a><br/><a href="mailto:srg@beggslane.com">srg@beggslane.com</a></p> <p>James W. Brew<br/>Laura A. Wynn<br/>Stone Matheis Xenopoulos &amp; Brew<br/>1025 Thomas Jefferson Street, NW<br/>8<sup>th</sup> Floor, West Tower<br/>Washington, DC 20007<br/><a href="mailto:jbrew@smxblaw.com">jbrew@smxblaw.com</a><br/><a href="mailto:law@smxblaw.com">law@smxblaw.com</a></p> | <p>Mike Cassel, Director<br/>Regulatory Affairs<br/>Florida Public Utilities Company<br/>1750 S 14<sup>th</sup> Street, Suite 200<br/>Fernandina Beach, FL 32034<br/><a href="mailto:mcassel@fpuc.com">mcassel@fpuc.com</a></p> <p>Robert L. McGee, Jr.<br/>Regulatory and Pricing Manager<br/>Gulf Power Company<br/>One Energy Place<br/>Pensacola, FL 32520-0780<br/><a href="mailto:rlmcgee@southernco.com">rlmcgee@southernco.com</a></p> <p>Beth Keating<br/>Gunster, Yoakley &amp; Stewart, P.A.<br/>215 South Monroe Street, Suite 601<br/>Tallahassee, FL 32301<br/><a href="mailto:bkeating@gunster.com">bkeating@gunster.com</a></p> <p>Charles J. Rehwinkel / Erik Saylor<br/>J.R. Kelly / Patty Christensen<br/>Office of Public Counsel<br/>c/o The Florida Legislature<br/>111 W. Madison Street, Room 812<br/>Tallahassee, FL 32399-1400<br/><a href="mailto:rehwinkel.charles@leg.state.fl.us">rehwinkel.charles@leg.state.fl.us</a><br/><a href="mailto:sayler.erik@leg.state.fl.us">sayler.erik@leg.state.fl.us</a><br/><a href="mailto:kelly.jr@leg.state.fl.us">kelly.jr@leg.state.fl.us</a><br/><a href="mailto:christensen.patty@leg.state.fl.us">christensen.patty@leg.state.fl.us</a></p> <p>Robert Scheffel Wright<br/>John T. LaVia, III<br/>c/o Gardner Law Firm<br/>1300 Thomaswood Drive<br/>Tallahassee, FL 32308<br/><a href="mailto:schef@gbwlegal.com">schef@gbwlegal.com</a><br/><a href="mailto:jlavia@gbwlegal.com">jlavia@gbwlegal.com</a></p> | <p>Ms. Paula K. Brown<br/>Manager, Regulatory Coordination<br/>Tampa Electric Company<br/>P.O. Box 111<br/>Tampa, FL 33601<br/><a href="mailto:regdept@tecoenergy.com">regdept@tecoenergy.com</a></p> <p>John T. Butler<br/>Maria Jose Moncada<br/>Florida Power &amp; Light Company<br/>700 Universe Boulevard (LAW/JB)<br/>Juno Beach, FL 33408-0420<br/><a href="mailto:john.butler@fpl.com">john.butler@fpl.com</a><br/><a href="mailto:maria.moncada@fpl.com">maria.moncada@fpl.com</a></p> <p>Kenneth Hoffman, Vice President<br/>Regulatory Affairs<br/>Florida Power &amp; Light Company<br/>215 S. Monroe Street, Suite 810<br/>Tallahassee, FL 32301-1858<br/><a href="mailto:ken.hoffman@fpl.com">ken.hoffman@fpl.com</a></p> <p>Jon C. Moyle, Jr.<br/>Moyle Law Firm, PA<br/>118 North Gadsden Street<br/>Tallahassee, FL 32301<br/><a href="mailto:jmoyle@moylelaw.com">jmoyle@moylelaw.com</a></p> |
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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

| Bartow CC           | Jan-17    | Feb-17    | Mar-17    | Apr-17    | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan - Apr<br>Period |
|---------------------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| 1. EAF              | 98.62     | 61.18     | 54.81     | 89.48     |        |        |        |        |        |        |        |        | 76.29               |
| 2. PH               | 744       | 672       | 743       | 720       |        |        |        |        |        |        |        |        | 2,879               |
| 3. SH               | 677.0     | 411.2     | 365.4     | 644.2     |        |        |        |        |        |        |        |        | 2,097.9             |
| 4. RSH              | 67.0      | 0.0       | 41.8      | 0.0       |        |        |        |        |        |        |        |        | 108.8               |
| 5. UH               | 0.0       | 260.9     | 335.8     | 75.8      |        |        |        |        |        |        |        |        | 672.4               |
| 6. POH              | 0.0       | 0.0       | 41.1      | 0.0       |        |        |        |        |        |        |        |        | 41.1                |
| 7. FOH              | 0.0       | 233.1     | 292.1     | 75.8      |        |        |        |        |        |        |        |        | 600.9               |
| 8. MOH              | 0.0       | 27.8      | 2.7       | 0.0       |        |        |        |        |        |        |        |        | 30.4                |
| 9. PPOH             | 56.4      | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 56.4                |
| 10. LR PP (MW)      | 203.1     | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 203.1               |
| 11. PFOH            | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 12. LR PF (MW)      | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 13. PMOH            | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 14. LR PM (MW)      | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 15. NSC (MW)        | 1120      | 1120      | 1120      | 1120      |        |        |        |        |        |        |        |        | 1120                |
| 16. OPER MBTU       | 4,539,060 | 2,658,016 | 3,220,610 | 4,384,107 |        |        |        |        |        |        |        |        | 14,801,793          |
| 17. NET GEN (MWH)   | 616,163   | 269,471   | 286,966   | 529,238   |        |        |        |        |        |        |        |        | 1,701,838           |
| 18. ANOHR (BTU/KWH) | 7,366.7   | 9,863.8   | 11,223.0  | 8,283.8   |        |        |        |        |        |        |        |        | 8,697.5             |
| 19. NOF (%)         | 81.26     | 58.52     | 70.11     | 73.35     |        |        |        |        |        |        |        |        | 72.43               |
| 20. NPC (MW)        | 1120      | 1120      | 1120      | 1120      |        |        |        |        |        |        |        |        | 1120                |

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

| CRYSTAL RIVER 4     | Jan-17    | Feb-17    | Mar-17    | Apr-17    | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan - Apr<br>Period |
|---------------------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| 1. EAF              | 86.49     | 95.82     | 93.36     | 97.90     |        |        |        |        |        |        |        |        | 93.30               |
| 2. PH               | 744       | 672       | 743       | 720       |        |        |        |        |        |        |        |        | 2,879               |
| 3. SH               | 648.7     | 650.3     | 696.4     | 720.0     |        |        |        |        |        |        |        |        | 2,715.4             |
| 4. RSH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 5. UH               | 95.3      | 21.7      | 46.6      | 0.0       |        |        |        |        |        |        |        |        | 163.6               |
| 6. POH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 7. FOH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 8. MOH              | 95.3      | 21.7      | 46.6      | 0.0       |        |        |        |        |        |        |        |        | 163.6               |
| 9. PPOH             | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 10. LR PP (MW)      | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 11. PFOH            | 21.1      | 14.0      | 13.5      | 8.4       |        |        |        |        |        |        |        |        | 57.0                |
| 12. LR PF (MW)      | 155.5     | 61.9      | 93.0      | 89.2      |        |        |        |        |        |        |        |        | 108.0               |
| 13. PMOH            | 4.5       | 14.8      | 7.0       | 46.0      |        |        |        |        |        |        |        |        | 72.3                |
| 14. LR PM (MW)      | 93.0      | 249.0     | 93.0      | 217.5     |        |        |        |        |        |        |        |        | 204.2               |
| 15. NSC (MW)        | 712       | 712       | 712       | 712       |        |        |        |        |        |        |        |        | 712                 |
| 16. OPER MBTU       | 3,201,197 | 3,213,960 | 3,897,728 | 4,051,925 |        |        |        |        |        |        |        |        | 14,364,810          |
| 17. NET GEN (MWH)   | 311,345   | 321,341   | 390,869   | 417,993   |        |        |        |        |        |        |        |        | 1,441,548           |
| 18. ANOHR (BTU/KWH) | 10,281.8  | 10,001.7  | 9,972.0   | 9,693.8   |        |        |        |        |        |        |        |        | 9,964.8             |
| 19. NOF (%)         | 67.41     | 69.40     | 78.83     | 81.54     |        |        |        |        |        |        |        |        | 74.56               |
| 20. NPC (MW)        | 712       | 712       | 712       | 712       |        |        |        |        |        |        |        |        | 712                 |

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

| CRYSTAL RIVER 5     | Jan-17    | Feb-17    | Mar-17    | Apr-17    | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan - Apr<br>Period |
|---------------------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| 1. EAF              | 99.76     | 99.71     | 81.87     | 76.96     |        |        |        |        |        |        |        |        | 89.43               |
| 2. PH               | 744       | 672       | 743       | 720       |        |        |        |        |        |        |        |        | 2,879               |
| 3. SH               | 744.0     | 672.0     | 658.8     | 607.1     |        |        |        |        |        |        |        |        | 2,681.9             |
| 4. RSH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 5. UH               | 0.0       | 0.0       | 84.2      | 112.9     |        |        |        |        |        |        |        |        | 197.1               |
| 6. POH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 7. FOH              | 0.0       | 0.0       | 10.0      | 112.9     |        |        |        |        |        |        |        |        | 122.9               |
| 8. MOH              | 0.0       | 0.0       | 74.2      | 0.0       |        |        |        |        |        |        |        |        | 74.2                |
| 9. PPOH             | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 10. LR PP (MW)      | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 11. PFOH            | 0.0       | 0.0       | 6.3       | 4.3       |        |        |        |        |        |        |        |        | 10.7                |
| 12. LR PF (MW)      | 0.0       | 0.0       | 150.6     | 91.3      |        |        |        |        |        |        |        |        | 126.5               |
| 13. PMOH            | 13.8      | 15.0      | 384.0     | 408.7     |        |        |        |        |        |        |        |        | 821.5               |
| 14. LR PM (MW)      | 91.0      | 91.0      | 91.0      | 91.0      |        |        |        |        |        |        |        |        | 91.0                |
| 15. NSC (MW)        | 710       | 710       | 710       | 710       |        |        |        |        |        |        |        |        | 710                 |
| 16. OPER MBTU       | 3,645,405 | 3,211,345 | 3,234,019 | 3,012,117 |        |        |        |        |        |        |        |        | 13,102,885          |
| 17. NET GEN (MWH)   | 358,248   | 321,503   | 331,274   | 318,570   |        |        |        |        |        |        |        |        | 1,329,595           |
| 18. ANOHR (BTU/KWH) | 10,175.6  | 9,988.5   | 9,762.4   | 9,455.1   |        |        |        |        |        |        |        |        | 9,854.8             |
| 19. NOF (%)         | 67.82     | 67.38     | 70.82     | 73.91     |        |        |        |        |        |        |        |        | 69.83               |
| 20. NPC (MW)        | 710       | 710       | 710       | 710       |        |        |        |        |        |        |        |        | 710                 |

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

| HINES Power Block 1 | Jan-17    | Feb-17    | Mar-17    | Apr-17  | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan - Apr<br>Period |
|---------------------|-----------|-----------|-----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| 1. EAF              | 100.00    | 99.86     | 99.12     | 15.67   |        |        |        |        |        |        |        |        | 78.65               |
| 2. PH               | 744       | 672       | 743       | 720     |        |        |        |        |        |        |        |        | 2,879               |
| 3. SH               | 603.3     | 672.0     | 736.4     | 112.8   |        |        |        |        |        |        |        |        | 2,124.5             |
| 4. RSH              | 140.7     | 0.0       | 0.1       | 0.0     |        |        |        |        |        |        |        |        | 140.7               |
| 5. UH               | 0.0       | 0.0       | 6.5       | 607.2   |        |        |        |        |        |        |        |        | 613.7               |
| 6. POH              | 0.0       | 0.0       | 6.5       | 607.2   |        |        |        |        |        |        |        |        | 613.7               |
| 7. FOH              | 0.0       | 0.0       | 0.0       | 0.0     |        |        |        |        |        |        |        |        | 0.0                 |
| 8. MOH              | 0.0       | 0.0       | 0.0       | 0.0     |        |        |        |        |        |        |        |        | 0.0                 |
| 9. PPOH             | 0.0       | 7.5       | 0.0       | 0.0     |        |        |        |        |        |        |        |        | 7.5                 |
| 10. LR PP (MW)      | 0.0       | 57.1      | 0.0       | 0.0     |        |        |        |        |        |        |        |        | 57.1                |
| 11. PFOH            | 0.0       | 0.0       | 0.0       | 0.0     |        |        |        |        |        |        |        |        | 0.0                 |
| 12. LR PF (MW)      | 0.0       | 0.0       | 0.0       | 0.0     |        |        |        |        |        |        |        |        | 0.0                 |
| 13. PMOH            | 0.0       | 0.0       | 0.0       | 0.0     |        |        |        |        |        |        |        |        | 0.0                 |
| 14. LR PM (MW)      | 0.0       | 0.0       | 0.0       | 0.0     |        |        |        |        |        |        |        |        | 0.0                 |
| 15. NSC (MW)        | 445       | 445       | 445       | 445     |        |        |        |        |        |        |        |        | 445                 |
| 16. OPER MBTU       | 1,613,671 | 2,095,469 | 2,367,291 | 240,309 |        |        |        |        |        |        |        |        | 6,316,740           |
| 17. NET GEN (MWH)   | 236,527   | 303,529   | 341,546   | 32,942  |        |        |        |        |        |        |        |        | 914,544             |
| 18. ANOHR (BTU/KWH) | 6,822.4   | 6,903.7   | 6,931.1   | 7,294.9 |        |        |        |        |        |        |        |        | 6,907.0             |
| 19. NOF (%)         | 88.10     | 101.50    | 104.22    | 65.63   |        |        |        |        |        |        |        |        | 96.73               |
| 20. NPC (MW)        | 445       | 445       | 445       | 445     |        |        |        |        |        |        |        |        | 445                 |

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

| HINES Power Block 2 | Jan-17    | Feb-17    | Mar-17    | Apr-17    | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan - Apr<br>Period |
|---------------------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| 1. EAF              | 100.00    | 100.00    | 99.98     | 99.98     |        |        |        |        |        |        |        |        | 99.99               |
| 2. PH               | 744       | 672       | 743       | 720       |        |        |        |        |        |        |        |        | 2,879               |
| 3. SH               | 646.2     | 419.6     | 743.0     | 672.7     |        |        |        |        |        |        |        |        | 2,481.5             |
| 4. RSH              | 97.8      | 252.4     | 0.0       | 47.3      |        |        |        |        |        |        |        |        | 397.5               |
| 5. UH               | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 6. POH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 7. FOH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 8. MOH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 9. PPOH             | 0.0       | 0.0       | 1.5       | 1.3       |        |        |        |        |        |        |        |        | 2.8                 |
| 10. LR PP (MW)      | 0.0       | 0.0       | 39.0      | 46.4      |        |        |        |        |        |        |        |        | 42.5                |
| 11. PFOH            | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 12. LR PF (MW)      | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 13. PMOH            | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 14. LR PM (MW)      | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 15. NSC (MW)        | 477       | 477       | 477       | 477       |        |        |        |        |        |        |        |        | 477                 |
| 16. OPER MBTU       | 2,042,538 | 1,267,778 | 2,563,600 | 2,005,494 |        |        |        |        |        |        |        |        | 7,879,410           |
| 17. NET GEN (MWH)   | 277,273   | 179,574   | 368,942   | 301,569   |        |        |        |        |        |        |        |        | 1,127,358           |
| 18. ANOHR (BTU/KWH) | 7,366.5   | 7,059.9   | 6,948.5   | 6,650.2   |        |        |        |        |        |        |        |        | 6,989.3             |
| 19. NOF (%)         | 89.96     | 89.71     | 104.10    | 93.98     |        |        |        |        |        |        |        |        | 95.24               |
| 20. NPC (MW)        | 477       | 477       | 477       | 477       |        |        |        |        |        |        |        |        | 477                 |

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

| HINES Power Block 3 | Jan-17    | Feb-17    | Mar-17  | Apr-17    | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan - Apr<br>Period |
|---------------------|-----------|-----------|---------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| 1. EAF              | 96.79     | 100.00    | 13.57   | 100.00    |        |        |        |        |        |        |        |        | 76.86               |
| 2. PH               | 744       | 672       | 743     | 720       |        |        |        |        |        |        |        |        | 2,879               |
| 3. SH               | 419.3     | 606.7     | 92.9    | 694.7     |        |        |        |        |        |        |        |        | 1,813.6             |
| 4. RSH              | 304.9     | 65.3      | 7.9     | 25.3      |        |        |        |        |        |        |        |        | 403.4               |
| 5. UH               | 19.9      | 0.0       | 642.2   | 0.0       |        |        |        |        |        |        |        |        | 662.0               |
| 6. POH              | 0.0       | 0.0       | 629.0   | 0.0       |        |        |        |        |        |        |        |        | 629.0               |
| 7. FOH              | 0.1       | 0.0       | 13.2    | 0.0       |        |        |        |        |        |        |        |        | 13.3                |
| 8. MOH              | 19.8      | 0.0       | 0.0     | 0.0       |        |        |        |        |        |        |        |        | 19.8                |
| 9. PPOH             | 0.0       | 0.0       | 0.0     | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 10. LR PP (MW)      | 0.0       | 0.0       | 0.0     | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 11. PFOH            | 0.1       | 0.0       | 0.0     | 0.0       |        |        |        |        |        |        |        |        | 0.1                 |
| 12. LR PF (MW)      | 84.9      | 0.0       | 0.0     | 0.0       |        |        |        |        |        |        |        |        | 84.9                |
| 13. PMOH            | 22.7      | 0.0       | 0.0     | 0.0       |        |        |        |        |        |        |        |        | 22.7                |
| 14. LR PM (MW)      | 83.8      | 0.0       | 0.0     | 0.0       |        |        |        |        |        |        |        |        | 83.8                |
| 15. NSC (MW)        | 471       | 471       | 471     | 471       |        |        |        |        |        |        |        |        | 471                 |
| 16. OPER MBTU       | 1,378,484 | 1,843,655 | 302,495 | 1,999,411 |        |        |        |        |        |        |        |        | 5,524,045           |
| 17. NET GEN (MWH)   | 187,937   | 272,008   | 38,867  | 320,313   |        |        |        |        |        |        |        |        | 819,125             |
| 18. ANOHR (BTU/KWH) | 7,334.8   | 6,777.9   | 7,782.8 | 6,242.1   |        |        |        |        |        |        |        |        | 6,743.8             |
| 19. NOF (%)         | 95.17     | 95.19     | 88.79   | 97.89     |        |        |        |        |        |        |        |        | 95.89               |
| 20. NPC (MW)        | 471       | 471       | 471     | 471       |        |        |        |        |        |        |        |        | 471                 |



Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

| HINES Power Block 4 | Jan-17    | Feb-17    | Mar-17    | Apr-17    | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 | Oct-17 | Nov-17 | Dec-17 | Jan - Apr<br>Period |
|---------------------|-----------|-----------|-----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| 1. EAF              | 100.00    | 99.87     | 100.00    | 96.13     |        |        |        |        |        |        |        |        | 99.00               |
| 2. PH               | 744       | 672       | 743       | 720       |        |        |        |        |        |        |        |        | 2,879               |
| 3. SH               | 627.8     | 523.0     | 743.0     | 693.4     |        |        |        |        |        |        |        |        | 2,587.1             |
| 4. RSH              | 116.2     | 148.3     | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 264.5               |
| 5. UH               | 0.0       | 0.8       | 0.0       | 26.6      |        |        |        |        |        |        |        |        | 27.4                |
| 6. POH              | 0.0       | 0.0       | 0.0       | 13.8      |        |        |        |        |        |        |        |        | 13.8                |
| 7. FOH              | 0.0       | 0.8       | 0.0       | 12.8      |        |        |        |        |        |        |        |        | 13.5                |
| 8. MOH              | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 9. PPOH             | 0.0       | 0.0       | 0.0       | 38.0      |        |        |        |        |        |        |        |        | 38.0                |
| 10. LR PP (MW)      | 0.0       | 0.0       | 0.0       | 15.5      |        |        |        |        |        |        |        |        | 15.5                |
| 11. PFOH            | 0.0       | 0.8       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.8                 |
| 12. LR PF (MW)      | 0.0       | 80.6      | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 80.6                |
| 13. PMOH            | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 14. LR PM (MW)      | 0.0       | 0.0       | 0.0       | 0.0       |        |        |        |        |        |        |        |        | 0.0                 |
| 15. NSC (MW)        | 454       | 454       | 454       | 454       |        |        |        |        |        |        |        |        | 454                 |
| 16. OPER MBTU       | 2,189,339 | 1,654,101 | 2,418,596 | 2,019,129 |        |        |        |        |        |        |        |        | 8,281,164           |
| 17. NET GEN (MWH)   | 302,283   | 247,902   | 367,494   | 323,783   |        |        |        |        |        |        |        |        | 1,241,462           |
| 18. ANOHR (BTU/KWH) | 7,242.7   | 6,672.4   | 6,581.3   | 6,236.1   |        |        |        |        |        |        |        |        | 6,670.5             |
| 19. NOF (%)         | 106.06    | 104.42    | 108.94    | 102.85    |        |        |        |        |        |        |        |        | 105.70              |
| 20. NPC (MW)        | 454       | 454       | 454       | 454       |        |        |        |        |        |        |        |        | 454                 |

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - April 2017**

**Bartow CC**

| Unit   | Date      | Outage Type | Hours   | MW Affected | Description                                   |
|--------|-----------|-------------|---------|-------------|---|
| BCC 4A | 1/24/2017 | PPO         | 40.52   | 25.3        | NOX STACK EMISSIONS - GAS TURBINE UNITS       |
| BCC 4A | 3/4/2017  | PO          | 270.00  | 170.3       | GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS |
| BCC 4B | 1/26/2017 | PPO         | 11.00   | 26.3        | NOX STACK EMISSIONS - GAS TURBINE UNITS       |
| BCC 4B | 2/15/2017 | FFO         | 48.02   | 171.3       | GAS TURBINE - DIVERTER DAMPERS                |
| BCC 4B | 2/17/2017 | FMO         | 70.97   | 171.3       | GAS TURBINE - TURNING GEAR AND MOTOR          |
| BCC 4B | 2/24/2017 | FMO         | 87.00   | 171.3       | SOLID STATE EXCITER ELEMENT                   |
| BCC 4B | 2/28/2017 | FFO         | 14.98   | 171.3       | LOW PRESSURE COMPRESSURE BLEED VALVES         |
| BCC 4B | 3/7/2017  | FMO         | 17.30   | 171.3       | BLADE PATH TEMPERATURE SPREAD                 |
| BCC 4C | 1/27/2017 | PPO         | 35.00   | 29.3        | NOX STACK EMISSIONS - GAS TURBINE UNITS       |
| BCC 4D | 1/28/2017 | PPO         | 35.00   | 24.3        | NOX STACK EMISSIONS - GAS TURBINE UNITS       |
| BCC 4D | 2/14/2017 | FMO         | 24.02   | 169.3       | GAS TURBINE - FUEL PIPING AND VALVES          |
| BCC 4D | 3/15/2017 | FFO         | 2.00    | 169.3       | BLADE PATH TEMPERATURE SPREAD                 |
| BCC 4D | 3/23/2017 | FFO         | 7.00    | 169.3       | BLADE PATH TEMPERATURE SPREAD                 |
| BCC 4D | 3/28/2017 | FFO         | 15.00   | 169.3       | OTHER GAS TURBINE PROBLEMS                    |
| BCC 4S | 1/24/2017 | PPO         | 40.52   | 289.8       | NOX STACK EMISSIONS - GAS TURBINE UNITS       |
| BCC 4S | 1/26/2017 | PPO         | 11.00   | 289.8       | NOX STACK EMISSIONS - GAS TURBINE UNITS       |
| BCC 4S | 1/27/2017 | PPO         | 11.00   | 289.8       | NOX STACK EMISSIONS - GAS TURBINE UNITS       |
| BCC 4S | 1/28/2017 | PPO         | 35.00   | 289.8       | NOX STACK EMISSIONS - GAS TURBINE UNITS       |
| BCC 4S | 2/5/2017  | FFO         | 1513.67 | 434.8       | OTHER LOW PRESSURE TURBINE PROBLEMS           |

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - April 2017**

**Crystal River 4**

| <b>Date</b> | <b>Outage Type</b> | <b>Hours</b> | <b>MW Affected</b> | <b>Description</b>                                      |
|-------------|--------------------|--------------|--------------------|---|
| 1/7/2017    | PFO                | 19.72        | 160.0              | WET COAL (OMC)  |
| 1/14/2017   | PFO                | 1.42         | 93.0               | PULVERIZER FEEDERS                                      |
| 1/18/2017   | PMO                | 4.50         | 93.0               | AIR SUPPLY DAMPERS                                      |
| 1/25/2017   | FMO                | 95.30        | 712.0              | FIRST REHEATER LEAKS                                    |
| 2/4/2017    | PFO                | 7.40         | 93.0               | PULVERIZER FEEDERS                                      |
| 2/7/2017    | PMO                | 6.40         | 454.0              | CEMS - CERTIFICATION AND RECERTIFICATION                |
| 2/9/2017    | PMO                | 3.28         | 93.0               | PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX) |
| 2/15/2017   | PMO                | 1.13         | 93.0               | PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX) |
| 2/23/2017   | PMO                | 4.00         | 92.9               | PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX) |
| 2/27/2017   | PFO                | 6.58         | 27.0               | FIRST SUPERHEATER LEAKS                                 |
| 2/28/2017   | FMO                | 68.30        | 712.0              | FIRST SUPERHEATER LEAKS                                 |
| 3/9/2017    | PFO                | 13.47        | 93.0               | PRIMARY AIR DUCTS AND DAMPERS                           |
| 3/21/2017   | PMO                | 3.50         | 93.0               | PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX) |
| 3/24/2017   | PMO                | 3.50         | 93.0               | BURNERS   |
| 4/7/2017    | PMO                | 4.75         | 92.9               | PULVERIZER MILLS  |
| 4/11/2017   | PFO                | 6.00         | 93.0               | PULVERIZER FEEDERS                                      |
| 4/13/2017   | PFO                | 1.18         | 93.3               | PULVERIZER FEEDERS                                      |
| 4/18/2017   | PFO                | 1.22         | 66.7               | PULVERIZER FEEDERS                                      |
| 4/20/2017   | PMO                | 5.00         | 188.0              | PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX) |
| 4/23/2017   | PMO                | 8.27         | 307.0              | FORCED DRAFT FANS                                       |
| 4/24/2017   | PMO                | 7.28         | 331.0              | FORCED DRAFT FANS                                       |
| 4/26/2017   | PMO                | 5.60         | 236.0              | CONDENSATE/HOTWELL PUMPS                                |
| 4/26/2017   | PMO                | 2.50         | 74.0               | COAL CONVEYERS AND FEEDERS                              |
| 4/26/2017   | PMO                | 7.00         | 236.0              | CONDENSATE/HOTWELL PUMPS                                |
| 4/28/2017   | PMO                | 5.63         | 93.0               | CONDENSATE/HOTWELL PUMPS                                |

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - April 2017**

**Crystal River 5**

| <b>Date</b> | <b>Outage Type</b> | <b>Hours</b> | <b>MW Affected</b> | <b>Description</b>         |
|-------------|--------------------|--------------|--------------------|----------------------------|
| 1/4/2017    | PMO                | 6.33         | 91.0               | PULVERIZER LUBE OIL SYSTEM |
| 1/12/2017   | PMO                | 7.50         | 91.0               | PULVERIZER MILLS           |
| 2/16/2017   | PMO                | 15.00        | 91.0               | FOREIGN OBJECT IN MILL     |
| 3/4/2017    | PFO                | 3.50         | 44.0               | SOOT BLOWER CONTROLS       |
| 3/5/2017    | FMO                | 74.17        | 710.0              | AIR HEATER SOOT BLOWER     |
| 3/8/2017    | PMO                | 339.62       | 91.0               | PULVERIZER MILLS           |
| 3/22/2017   | PFO                | 2.83         | 281.9              | PULVERIZER LUBE OIL SYSTEM |
| 3/25/2017   | PMO                | 44.38        | 91.0               | PULVERIZER MILLS           |
| 3/31/2017   | FFO                | 122.92       | 710.0              | SECOND SUPERHEATER LEAKS   |
| 4/5/2017    | PMO                | 361.07       | 91.0               | PULVERIZER MILLS           |
| 4/23/2017   | PMO                | 45.12        | 91.0               | PULVERIZER MILLS           |
| 4/26/2017   | PMO                | 2.50         | 90.9               | COAL CONVEYERS AND FEEDERS |
| 4/28/2017   | PFO                | 4.33         | 91.3               | PULVERIZER FEEDERS         |

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - April 2017**

**Hines Power Block 1**

| <b>Unit</b> | <b>Date</b> | <b>Outage Type</b> | <b>Hours</b> | <b>MW Affected</b> | <b>Description</b>                  |
|-------------|-------------|--------------------|--------------|--------------------|-------------------------------------|
| HEP 1A      | 2/25/2017   | PPO                | 7.45         | 63.4               | CONDENSER TUBE FOULING TUBE SIDE    |
| HEP 1A      | 3/31/2017   | PO                 | 690.22       | 145.4              | GENERAL GAS TURBINE UNIT INSPECTION |
| HEP 1B      | 2/25/2017   | PPO                | 7.45         | 62.4               | CONDENSER TUBE FOULING TUBE SIDE    |
| HEP 1B      | 4/6/2017    | PO                 | 596.22       | 145.4              | GENERAL GAS TURBINE UNIT INSPECTION |
| HEP ST1     | 2/25/2017   | PPO                | 7.45         | 46.1               | CONDENSER TUBE FOULING TUBE SIDE    |
| HEP ST1     | 4/6/2017    | PO                 | 558.10       | 154.1              | GENERAL GAS TURBINE UNIT INSPECTION |

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - April 2017**

**Hines Power Block 2**

| <b>Unit</b> | <b>Date</b> | <b>Outage Type</b> | <b>Hours</b> | <b>MW Affected</b> | <b>Description</b>     |
|-------------|-------------|--------------------|--------------|--------------------|------------------------|
| HEP 2A      | 3/10/2017   | PPO                | 1.50         | 41.9               | INTAKE GRATING FOULING |
| HEP 2A      | 4/20/2017   | PPO                | 1.33         | 49.9               | INTAKE GRATING FOULING |
| HEP 2B      | 3/10/2017   | PPO                | 1.50         | 41.9               | INTAKE GRATING FOULING |
| HEP 2B      | 4/20/2017   | PPO                | 1.33         | 49.9               | INTAKE GRATING FOULING |
| HEP ST2     | 3/10/2017   | PPO                | 1.50         | 34.1               | INTAKE GRATING FOULING |
| HEP ST2     | 4/20/2017   | PPO                | 1.33         | 40.1               | INTAKE GRATING FOULING |

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - April 2017**

**Hines Power Block 3**

| <b>Unit</b> | <b>Date</b> | <b>Outage Type</b> | <b>Hours</b> | <b>MW Affected</b> | <b>Description</b>                                 |
|-------------|-------------|--------------------|--------------|--------------------|--|
| HEP 3A      | 1/21/2017   | FFO                | 0.25         | 149.6              | FEEDWATER CONTROLS                                 |
| HEP 3A      | 1/21/2017   | FMO                | 62.25        | 149.6              | BOILER; MISCELLANEOUS                              |
| HEP 3A      | 3/3/2017    | PO                 | 619.52       | 149.6              | GENERAL GAS TURBINE UNIT INSPECTION                |
| HEP 3A      | 3/30/2017   | FFO                | 12.08        | 149.6              | OTHER MISCELLANEOUS EXTERNAL PROBLEMS              |
| HEP 3A      | 3/30/2017   | FFO                | 8.02         | 149.6              | OPERATOR ERROR                                     |
| HEP 3B      | 3/4/2017    | PO                 | 642.73       | 149.6              | GENERAL GAS TURBINE UNIT INSPECTION                |
| HEP ST3     | 1/21/2017   | PFO                | 0.25         | 83.8               | FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE  |
| HEP ST3     | 1/21/2017   | PMO                | 62.17        | 83.8               | OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT |
| HEP ST3     | 3/3/2017    | PO                 | 625.17       | 171.8              | GENERAL GAS TURBINE UNIT INSPECTION                |
| HEP ST3     | 3/30/2017   | FFO                | 13.67        | 171.8              | OTHER MISCELLANEOUS EXTERNAL PROBLEMS              |
| HEP ST3     | 3/30/2017   | FFO                | 5.03         | 171.8              | OPERATOR ERROR                                     |

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - April 2017**

**Hines Power Block 4**

| <b>Unit</b> | <b>Date</b> | <b>Outage Type</b> | <b>Hours</b> | <b>MW Affected</b> | <b>Description</b>                        |
|-------------|-------------|--------------------|--------------|--------------------|---|
| HEP 4A      | 4/8/2017    | PO                 | 16.37        | 145.2              | TURBINE HYDRAULIC SYSTEM PIPES AND VALVES |
| HEP 4A      | 4/14/2017   | FFO                | 10.85        | 145.2              | CIRCULATING WATER PUMPS                   |
| HEP 4B      | 2/20/2017   | FFO                | 2.33         | 145.2              | GAS TURBINE - CONTROLS AND INSTRUMENTS    |
| HEP 4B      | 4/8/2017    | PO                 | 11.50        | 145.2              | TURBINE HYDRAULIC SYSTEM PIPES AND VALVES |
| HEP 4B      | 4/14/2017   | FFO                | 15.03        | 145.2              | CIRCULATING WATER PUMPS                   |
| HEP ST4     | 2/20/2017   | PFO                | 2.33         | 80.5               | OTHER GAS TURBINE EXHAUST PROBLEMS        |
| HEP ST4     | 4/8/2017    | PO                 | 13.65        | 163.5              | TURBINE HYDRAULIC SYSTEM PIPES AND VALVES |
| HEP ST4     | 4/10/2017   | PPO                | 105.62       | 15.5               | TURBINE HYDRAULIC SYSTEM PIPES AND VALVES |
| HEP ST4     | 4/14/2017   | FFO                | 12.45        | 163.5              | CIRCULATING WATER PUMPS                   |