OCALA
Electric Utility

RP3 RELIABLE PUBLIC POWER PROVIDER
American Public Power Association

January 19, 2018

State of Florida
Public Service Commission

FILE SUBMITTED ELECTRONICALLY

RE: Docket No. 2017-215-EU – Review of electric utility hurricane preparedness and restoration actions.

To Whom It May Concern:

The following document are responses to the Second Data Request dated December 18, 2017.

If you have any questions or need further clarification, please feel free to contact me at (352) 351-6600.

Sincerely,

Michael Poucher, P.E.
Director, Electric Utility

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Attachment

COMMISSIONERS:
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STATE OF FLORIDA

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Public Service Commission

December 18, 2017

STAFF'S SECOND DATA REQUEST
via email

To:

Duke Energy Florida, LLC (Matthew.Bernier@duke-energy.com, dianne.triplett@duke-energy.com)
Florida Power & Light Company (ken.rubin@fpl.com, kevin.donaldson@fpl.com)
Florida Public Utilities Company (bkeating@gunster.com)
Gulf Power Company (jastone@southernco.com, rab@beggslane.com)
Tampa Electric Company (jbeasley@ausley.com)
Municipal Group (AZubaly@publicpower.com)
Lee County (dennie.hamilton@lcec.net)
Cooperative Group (mhershel@feca.com)

Re: Docket No. 20170215-EU - Review of electric utility hurricane preparedness and restoration actions.

To Whom It May Concern:

By this letter, the Commission staff requests that each utility provide responses to the following data requests.

Underground Facilities

1. For each year, please complete the following tables summarizing the number of miles of transmission and distribution underground facilities by county from 2006 through 2017.

Transmission:

Transmission			
Year 2006			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion			.5

Transmission			
Year 2010			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	0.5 Miles		1

Transmission			
Year 2017			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion			1

Distribution:

Distribution			
Year 2006			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	0 Miles	13.5 Miles	318

Distribution			
Year 2007			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	1.6 Miles	14.4 Miles	334

Distribution			
Year 2008			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	11.6 Miles	11.4 Miles	357

Distribution			
Year 2009			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	1 Mile		358

Distribution			
Year 2010			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion		1 Mile	359

Distribution			
Year 2011			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion		1 Mile	360

Distribution			
Year 2012			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	1 Mile		361

Distribution			
Year 2013			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	3 Miles		364

Distribution			
Year 2014			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	2 Miles	1 Mile	370

Distribution			
Year 2015			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	4 Miles	3 Miles	377

Distribution			
Year 2016			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion	9 Miles	7 Miles	393

Distribution			
Year 2017			
County	**Overhead to Underground**	**New Construction**	**Total Miles**
Marion		1 Miles	394

Forensic Data

2. For Hurricanes Hermine, Matthew, Irma, Maria, and Nate, please provide a complete copy of the utility's post-storm forensic review of damaged infrastructure. If a forensic review was not performed or not documented, please explain why. **The damage from Maria and Nate did not affect Ocala Electric Utility's service territory. The forensic review of the damage from Hermine, Matthew, and Irma was not recorded or documented because the damage to facilities (poles & transformers) was not caused by wind. The anecdotal evidence of the failures points to trees and not rain. We are implementing a new addition to our FEMA documents that will request a reason for equipment failure. This will aid in the forensic investigation of failed facilities due to hurricane effects in the future.**

Coordination

3. For Hurricanes Hermine, Matthew, Irma, Maria, and Nate, please provide the name, frequency, and description of non-Emergency Operations Centers related coordination efforts with local governments before, during, and after restoration, including the following.

   a. Storm preparation:

Hermine:

- **Storm coordination meeting held with all City of Ocala Department Heads.**

Matthew:

Florida Municipal Electric Agency (FMEA)

- **Pre-storm season FMEA hurricane forum**
- **(1) Mutual aid coordination call**
- **Pre-storm coordination meeting held with all City of Ocala departments**

Irma:

Marion County Engineering and City of Ocala coordination

- **1 pre-storm – including all local utilities (electric, CATV, telco), for discussion of restoration plans, resources, and priorities**
- **During storm, very close coordination with all City of Ocala and Marion County departments for lines down, line & tree entanglements, shelter and assisted-living restoration priorities, traffic signalization, sewer lift station restoration priorities.**
- **Post-storm coordination calls/emails/updates, discussing on-going line clearing (to enable tree/debris removal from roads) and ongoing restoration priorities, for several days after EOC site ramped down. OEU also worked with local agencies to identify power restoration at specific residences, so that "special needs" shelter occupants could be safely returned home.**

Florida Municipal Electrical Agency (FMEA)

- **Pre-storm season FMEA hurricane forum**
- **(1) Mutual aid coordination call, and (2) follow-up coordination email series.**

Maria – No specific storm-related meetings held

Nate - No specific storm-related meetings held

   b. Critical infrastructure:

Hermine – Internal meetings and inspections on transmission lines and Substations were held. Made sure critical facilities were identified in GIS.

Matthew - Florida Reliability Coordinating Council (FRCC Reliability Coordinator)

- **Pre-storm – daily conference calls, statewide electric utilities, for discussion of personnel staffing levels, resources staging, transmission & generation status, resiliency and restoration plans, priorities.**
- **Post-storm coordination/status conference call**
- **Internal meetings and inspections on transmission lines and Substations were held. Made sure critical facilities were identified in GIS.**

Irma – Florida Reliability Coordinating Council (FRCC Reliability Coordinator)

- **Pre-storm – daily (3 days) conference calls, statewide electric utilities, for discussion of personnel staffing levels, resources staging, transmission & generation status, resiliency and restoration plans, priorities.**
- **During Storm and post-storm 3-4 hrs status updates of generation and transmission 69kV-level lines and facilities. For approx. 7 days. Plus, daily conference calls.**
- **Internal meetings and inspections on transmission lines and Substations were held. Made sure critical facilities were identified in GIS.**

Maria – No specific storm-related meetings held
Nate - No specific storm-related meetings held

c. Tree trimming, planting or relocation of trees:

Prior to and after Hermine, Matthew, and Irma, field assessments were conducted. After Hurricane Irma, some coordination with FDOT to remove a hazardous tree on Interstate 75. There was no need to conduct field assessments for Maria or Nate.

d. Hardening and underground projects:

No specific storm-related meetings held for Hermine, Matthew, Irma, Maria, or Nate.

e. Shared facilities:

Ocala Electric Utility does not have any shared facilities. Therefore, no specific storm-related meetings held for Hermine, Matthew, Irma, Maria, or Nate.

f. Other:

No specific storm-related meetings held for Hermine, Matthew, Irma, Maria, or Nate.

4. Please complete the following tables on county and state Emergency Operations Centers staffing for Hurricanes Hermine, Matthew, Irma, Maria, and Nate.

Staffing for County Emergency Operations Centers		
Number of Utility Personnel	**Function**	**Total Man-Hours**
Hermine – 0	None	0
Matthew – 2	Ocala Electric Utility Liaisons	0 hrs at EOC Facility, 24 hrs via remote WebEOC
Irma – 2	Ocala Electric Utility Liaisons	112 hrs at EOC Facility, 24 hrs via remote WebEOC
Maria – 0	None	0
Nate – 0	None	0

Staffing for State Emergency Operations Center		
Number of Utility Personnel	**Function**	**Total Man-Hours**
Hermine – 0	None	0
Matthew – 0	None	0
Irma – 1	FMEA Liaison	112 hrs at State EOC
Maria – 0	None	0
Nate – 0	None	0

Solar

5. Please provide the following information for utility interconnections with customer-owned solar generation that did not operate as designed and consistent with the tariff during the extreme weather events that occurred in 2015 through 2017.
   a. The number of failures – **There were no known failures that occurred from the storm events of 2015 and 2017.**
   b. A description of the cause or causes of such failures – **N/A**
   c. Possible failure remediation and associated cost – **N/A**
   d. Discuss whether the failures contributed to an increase or decrease in the utility's service restoration time and, if possible, provide an estimate of the duration impact – **There were no known impacts to restoration times.**
   e. Discuss whether the failures contributed to an increase or decrease in the utility's service restoration costs and, if possible, provide an estimate of the restoration cost impact – **There were no known impacts to restoration costs.**

6. Please provide the following information for utility interconnections with customer-owned solar generation that operated as designed and consistent with the tariff during the extreme weather events that occurred in 2015 through 2017. **According to OEU records, all customer-owned solar generation operated as designed**.
   a. Discuss whether these interconnections contributed to an increase or decrease in the utility's service restoration time and, if possible, provide an estimate of the duration impact – **There were no known impacts to restoration times.**
   b. Discuss whether these interconnections increased or decreased the utility's service restoration costs and, if possible, provide an estimate of the restoration cost impact – **There were no known impacts to restoration costs.**

7. Without compromising safety, are there changes to the utility's interconnection with customer-owned solar generation that would enable the customer's facilities to be energized by its solar generation should the utility be unable to provide electric service due to a future storm damaging utility infrastructure? **Ocala's interconnection agreement does not prohibit a customer from utilizing their own generation as long as they have the proper equipment to prevent back feeding the utility when utility power is not available. This including momentary loss of power events.**

   a. If yes, please provide the following information:

      - Please describe the suggested changes to the utility's interconnection. **N/A**
      - If the utility is not pursuing the interconnection changes, please explain why. **Ocala's interconnection agreement does not prohibit a customer from utilizing their own generation as long as they have the proper**

equipment to prevent back feeding the utility when utility power is not available. This including momentary loss of power events.

8. Without compromising safety, please describe potential changes to a customer's facilities that the customer can implement to enable the customer's facilities to be energized by its solar generation should the utility be unable to provide electric service due to a future storm event that damages utility infrastructure. Include in your response whether the utility makes it a practice to inform the customer of such options. **In addition to the Renewable Generation System (RGS) equipment, the customer may install a battery back-up system or a back-up generator that incorporates a transfer switch to prevent back feeding the utility if utility power is not available, including momentary interuptions. The additional cost for the transfer switch would be at the customer's expense. Upon request, Ocala Electric Utility has informational packets that detail our Interconnection Agreement requirements; also, the Utility has resources available via Social Media and our website.**

   Without compromising safety, please describe any potential changes to rules or tariffs pertaining to utility interconnections with customer-owned solar generation that would enable the customer's facilities to be energized by its solar generation should the utility be unable to provide electric service due to a future storm event that damages utility infrastructure. **There are no barriers to a customer installing equipment to disconnect from us when our power goes out, as long as it disconnects entirely until the power is restored.**

9. Please provide the following information for utility interconnections with utility-scale solar generation that did not operate as designed during the extreme weather events that occurred in 2015 through 2017. **Ocala Electric Utility currently has no utility-scale solar generation.**
   a. The number of failures - **None**
   b. A description of the cause or causes of such failures – **N/A**
   c. Possible failure remediation and associated cost – **N/A**
   d. Discuss whether the failures contributed to an increase or decrease in the utility's service restoration time and, if possible, provide an estimate of the duration impact – **N/A**
   e. Discuss whether the failures contributed to an increase or decrease in the utility's service restoration costs and, if possible, provide an estimate of the restoration cost impact – **N/A**

10. Please provide the following information for utility interconnections with utility-scale solar generation that operated as designed during the extreme weather events that

occurred in 2015 through 2017. **Ocala Electric Utility currently has no utility-scale solar generation.**

a. Discuss whether these interconnections contributed to an increase or decrease in the utility's service restoration time and, if possible, provide an estimate of the duration impact – **There are no known increase/decrease to restoration times.**

b. Discuss whether these interconnections increased or decreased the utility's service restoration costs and, if possible, provide an estimate of the restoration cost impact – **There are no known increases/decreases to restoration costs.**

Please file all responses electronically no later than January 18, 2018 from the Commission's website at www.floridapsc.com, by selecting the **Clerk's Office** tab and **Electronic Filing Web Form**. Please contact me at wtaylor@psc.state.fl.us or at 850.413.6175 if you have any legal questions, or contact Emily Knoblauch for technical questions at eknoblau@psc.state.fl.us or at 850.413.6632.

Sincerely,

/s/*Wesley Taylor*

Wesley Taylor
Attorney

WDT/as

cc: Office of Commission Clerk
Office of Public Counsel (kelly.jr@leg.state.fl.us, sayler.erik@leg.state.fl.us)