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January 18, 2018

Wesley Taylor, Esquire
Public Service Commission
Capital Circle Office Center
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

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

Dear Mr. Taylor:

Enclosed please find Kissimmee Utility Authority's Responses to Staff's Second Data Request. Please note that our responses are in red.

Sincerely,

A handwritten signature in black ink, appearing to read "A. Lacerte", is written above the typed name.

Arthur J. "Grant" Lacerte Jr., Esq.
Vice President and General Counsel

Enclosure

COMMISSIONERS:
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STATE OF FLORIDA



OFFICE OF THE GENERAL COUNSEL
KEITH C. HETRICK
GENERAL COUNSEL
(850) 413-6199

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.

Note: This information reflects the actual miles of cable installed. It is not presented in circuit miles.

Transmission			
Osceola County			
Year	Overhead to Underground	New Construction	Total Miles
2006	0	0	0
2007	0	0	0

2008	0	30.65	30.65
2009	0	0	0
2010	0	0	0
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0
2016	0.42	0	0.42
2017	0	0	0

Distribution			
Osceola County			
Year	Overhead to Underground	New Construction	Total Miles
2006	0	113.09	113.09
2007	6.36	66.97	73.33
2008	13.48	77.31	90.79
2009	16.63	4.49	21.12
2010	2.05	39.01	41.06
2011	1.97	91.09	93.06
2012	0.28	37.17	37.45
2013	0.91	38.01	38.92
2014	4.55	44.06	48.61
2015	5.61	81.57	87.18
2016	0.02	53.68	53.70
2017	5.56	79.99	85.55

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.

KUA did not perform a post-storm forensic review following the storms that impacted its service area. While KUA did incur some damage to its infrastructure during Hurricanes Matthew and Irma, it was primarily due to vegetation. If the damage to the infrastructure had been more substantial or facilities failed below the design criteria, KUA would have performed a thorough forensic review.

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.

KUA is owned by the City of Kissimmee, which is the local government for most of KUA’s service area. KUA routinely coordinates and works with both the City of Kissimmee and Osceola County during storm events. KUA also has representation at the county EOC where it coordinates with all local governments in the area.

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
Hurricane Hermine	-	None	-
Hurricane Matthew	2	KUA representation, coordination & communication	29
Hurricane Irma	7	KUA representation, coordination & communication	91
Hurricane Maria	-	None	-
Hurricane Nate	-	None	-
Total	9		120

Staffing for State Emergency Operations Center			
	Number of Utility Personnel	Function	Total Man-Hours
Hurricane Hermine	None	None	None
Hurricane Matthew	None	None	None
Hurricane Irma	None	None	None
Hurricane Maria	None	None	None
Hurricane Nate	None	None	None
Total	-		-

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.

KUA is not aware of any customer-owned solar generation that did not operate as designed. Operations staff did not encounter any solar generation that back-fed onto the KUA distribution system during restoration.

- a. The number of failures.
 - b. A description of the cause or causes of such failures.
 - c. Possible failure remediation and associated cost.
 - 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.
 - 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.
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.

- 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.

KUA is not aware of any solar generation interconnections that impacted KUA's service restoration time.

- 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.

KUA is not aware of any solar generation interconnections that impacted KUA's service restoration time.

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?

Customers' ability to generate during an outage is based on the design of their individual system. KUA is aware of different types of PV system invertors being able to isolate from different potentials in their design. However, without modifying a customer owned system safely, KUA is not aware of anything a utility can do to facilitate such operation system-wide.

- a. If yes, please provide the following information:
- Please describe the suggested changes to the utility's interconnection.
 - If the utility is not pursuing the interconnection changes please explain why.

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.

The customer needs to have an inverter that can convert from the grid that is tied to stand alone operation and battery storage. KUA provides information about its net metering program on its website.

9. 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.

Customers with adequate storage capabilities might be able to energize their facilities through customer-owned solar generation. KUA does not see existing tariffs as a barrier to deployment of such technologies. However, for safety purposes, any applicable tariff should require customers utilizing storage and customer-owned solar generation to make sure the local electric utility provider knows that its facilities are energized, notwithstanding outages in the surrounding area.

10. 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.

KUA did not operate any utility-scale solar generation during this date range.

- a. The number of failures.
 - b. A description of the cause or causes of such failures.
 - c. Possible failure remediation and associated cost.
 - 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.
 - 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.
11. 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. See Answer to 10. above.
- 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.

- 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.

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)