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April 16, 2018

E-PORTAL FILING

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

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

Dear Ms. Stauffer:

Attached for filing, please find Florida Public Utilities Company's presentation for use during the May 2-3, 2018 workshop.

Thank you for your assistance with this filing. As always, please don't hesitate to let me know if you have any questions whatsoever.

Kind regards,

Beth Keating

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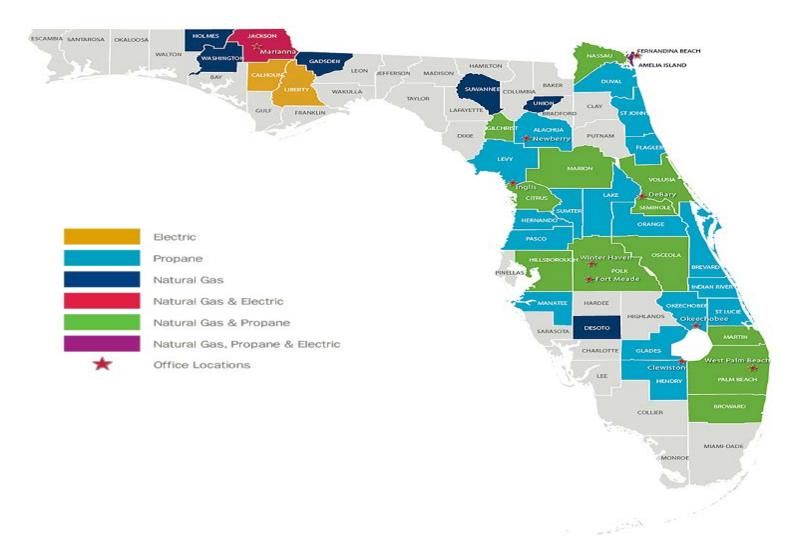
Hurricane Preparedness and Restoration Overview 2006-2017

Jorge Puentes Technical Engineering Manager May 2 - 3, 2018

> TOP WORK PLACES



FPU Service Areas





Overview of Prevention and Restoration Process







Plans and Initiatives 2006-2017

• Wood Pole Inspection:

Storm

Hardening

- Eight year cycle (1.25 Total cycles completed)
- Total poles inspected 32,921
- Total poles replaced 2,186
- Vegetation Management:
 - Three year trimming feeder cycle (3 Total cycles completed)
 - Six year trimming lateral cycle (1.5 Total cycles completed)
 - Approx. combined total feeder and lateral miles trimmed 1,337
- Joint Use Pole Attachment Audit completed





Storm Hardening

Plans and Initiatives 2006-2017

- Transmission Climbing Inspection:
 - Six year cycle
 - Completed in 2012 with upcoming 2018 inspection
- Installed a total of 85 concrete poles in the 69KV transmission system (includes replacing older wood structures and rebuilt 1.2 mile Rayonier line)
- Many distribution and substation projects completed to harden infrastructure (FPL Interconnect)
- Implemented OMS with Linemen App.
- Total O&M and Capital costs:
 - \$17,912,406 Capital
 - \$10,441,869 O&M





Preparation

Pre-Storm Planning

- Culture of preparedness safety first.
- Customer Outreach Programs
 - Hurricane/Storm Brochures
 - Website Information & Bill Inserts
 - Public Service Announcements
- Emergency Procedures, Storm and Communication Plans.
- Annual storm preparation, response planning and company-wide readiness exercises including electric, natural gas and propane operations.
- System, facility and inventory inspections.
- Coordination with EOCs, other utilities and governmental agencies.
- Participation in SEE and SGA Mutual Assistance programs.







Electric, Natural Gas and Propane

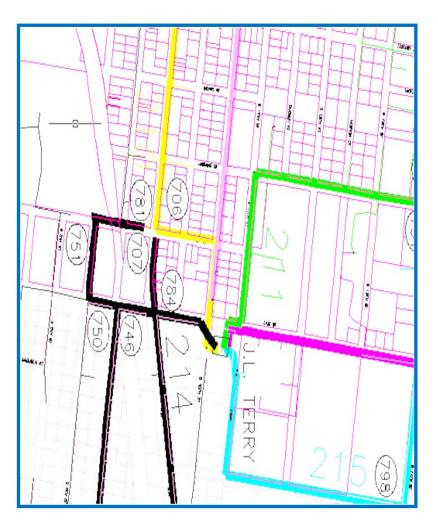




- Storm Watch initial activation.
- Duties and assignments reviewed.
- Inventory levels, logistics items, meals, hotels, fuel, outside vendors confirmed.
- Storm Warning active
- Secure our buildings/facilities.
- Contact county EOCs, other local officials, contractors, and energy partners (SEE).
- Employees activate their family storm plans.
- Redeploy Call Center resources.



Systematic Approach



Restoration

- OMS and SCADA systems organize/prioritize restoration.
- Physical damage survey.
- Teamed external crews with FPU crew leaders.
- Tree crews sent ahead to remove debris and clear areas.
- Restoration Priority Electric System:
 - Generation (Eight Flags, Inc)
 - Transmission (FPL Interconnection)
 - Substations
 - Distribution Feeders
- Restoration Priority Customers:
 - Hospitals
 - Police, Fire and EOC
 - Storm Shelters and Elderly Care Facilities
 - Water and Sewer Plants
 - Food Retailers and Restaurants

Hardened vs. Non-Hardened Facility Performance



- No damage to storm hardened transmission poles.
- No damage to storm hardened distribution poles
- Hermine Repairs: 22 Replacements: 0 to nonhardened facilities
- Matthew Repairs: 189 Replacements: 14 to nonhardened facilities
- Irma Repairs: 311
 Replacements 37 to nonhardened facilities

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Underground vs. Overhead Facility Performance





- Most storm damage was caused by vegetation
- No repairs done to the UG system. Except for customer storing debris on top of padmounted transformers.



Impediments to Restoration



- Amelia Island Mandatory Evacuation (Matthew & Irma)
- Magnitude and track of hurricane in securing mutual aid resources (Matthew & Irma)
- Clearing Vegetation
- Winds over 40 MPH
- Rain/Flooding

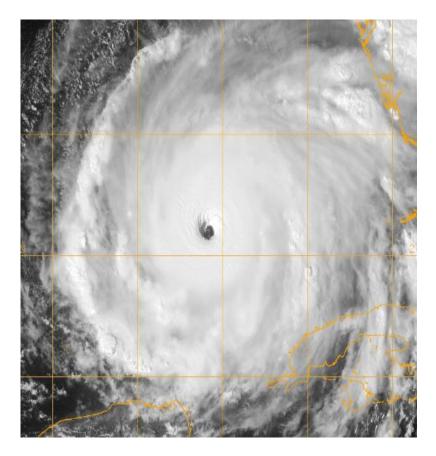


Customer Communications

- FPU Winner of Bronze Award -Chartwell's 2018 Outage Communications Awards.
- FPU staff Call Centers and EOCs 24x7
- Constantly monitored social media.
- All customer communication linked to one web landing page to ensure consistent, timely customer updates.
 - http://FPUChurricaneupdates.com
- Press Releases. Customer Email Blasts
- IVR Messages to Medical Customers
- Facebook and Twitter
- FPUC.com/ Mobile.FPUC.com
- Coordinated home visits.
- Letter from FPU president.



Suggested Improvements Based on Lessons Learned



- Continue to invest in all Storm Hardening initiatives
- Continue to invest in technology that advances hurricane prediction.
- Continue to improve GIS,OMS, IVR implementations and other technologies.
- Evaluate vegetation management feeder and lateral cycles.
- Work closely with customers to avoid storing debris on top of padmounted transformers.
- Continue to improve internal resource allocation as well as effectively securing mutual aid resources.





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