

FPSC Hurricane Preparedness Workshop May 19, 2021

Tom Gwaltney, Sr. Director Emergency Preparedness – Power Delivery

FPL is the state's largest utility, serving more than half of Florida's population

43 counties served

34,550 square miles

76,587 miles of distribution lines

9,048 miles of transmission lines

1.4 million poles

1.1 million transformers

809 substations



Topics for Discussion

- ▶ **Storm Preparation and Restoration Processes**
- ▶ **Customer/Stakeholder Outreach and Communication**
- ▶ **Vegetation Management**
- ▶ **Pole / Structure Inspections**
- ▶ **Lessons Learned**

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Storm Preparation and Restoration Processes

▶ Annual Drills

- ▶ Corporate-wide dry-run – week of May 3 - 7
 - Combined FPL and Gulf into one event
 - Incorporate pandemic-related lessons and industry guidelines into storm processes
- ▶ Implementing technology improvements to enhance storm damage forecasting/restoration processes
- ▶ Conducted incident management training workshops



▶ Mutual Aid Organizations/Agreements

- ▶ Southeastern Electric Exchange (SEE)
- ▶ Edison Electric Institute (EEI)
- ▶ Florida Electric Power Coordinating Group, Inc. (FCG)
- ▶ Association of Edison Illuminating Companies (AEIC)
- ▶ Pre-negotiate contracts with restoration vendors



Storm Preparation and Restoration Processes

▶ Actions taken to address COVID-19 requirements

- ▶ Developed Alpha and Bravo teams for critical roles at separate locations
- ▶ Maximize the use of working remotely for some roles
- ▶ Reduced staging site personnel and increased the number of micro sites to minimize crew congregation and movement
- ▶ Increased logistical support to incorporate COVID Guidelines
- ▶ Implemented COVID testing at Command Centers and temperature testing at processing sites (pandemic PPE available)



▶ Availability and inventory of equipment needed for restoration

- ▶ Increase materials inventories/pre-stage materials prior to storm season



Storm Preparation and Restoration Processes

► Distribution Lateral Hardening

- Storm Secure Underground Program (SSUP) - undergrounding neighborhood powerlines
- In 2020, 216 lateral undergrounding projects were completed
- In 2021, approximately 350 lateral undergrounding projects are projected to be completed
- The Overhead to Underground Conversion team continues to promote and execute municipal overhead-to-underground conversions



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Customer/Stakeholder Outreach and Communication

- ▶ **Use multiple channels/methods for customer communications – before, during, and after a storm**

- ▶ News releases and daily press conferences
- ▶ Communicating Estimated Time of Restoration (ETR) and restoration progress
- ▶ Targeted ads and customer emails
- ▶ Media interviews in hardest hit areas

- ▶ **Use digital/face-to-face communications**

- ▶ Social media for prep and safety messages, as well as restoration updates
- ▶ FPL and Gulf App available from the App Store or Google Play
- ▶ Community response kiosks in hardest hit areas

- ▶ **Provide daily e-mails/updates to Gov't. Portal Website – includes localized outage/restoration info**



Customer/Stakeholder Outreach and Communication

- ▶ **Conducting annual storm preparedness meetings with all EOCs**
 - ▶ Establishing 2021 plans for support at local EOCs, including staffing of embedded FPL employees at EOCs during events
 - ▶ Updating the Critical Infrastructure Facility and priority list
- ▶ **Continuing customer outreach meetings/presentations**
 - ▶ More than 1,000 presentations annually
 - ▶ Presentations cover various topics (e.g., storm readiness and Right Tree Right Place)
- ▶ **Meetings have been conducted and are being scheduled with third-party attachers, joint use partners, and local governments**
- ▶ **FPL provides information on how to safely operate private generation systems (generators and private solar systems) after a power outage**

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Vegetation Management

► Distribution

- Feeders: 3-year avg. cycle (+ mid-cycle maintenance)
- Laterals: 4 and 6-year avg. cycles
- Miles maintained (2020)
 - Feeders: 13,053 miles (4,208 cycle; 8,845 mid-cycle)
 - Laterals: 3,981 miles
- Before peak of storm season – inspect/maintain CIFs



► Transmission

- Inspect and Protect Program
 - Inspect right-of-way at least 2 times per year
 - Maintain clearances annually: 7,795 miles
 - Meet mandatory NERC-established requirements
- Before peak of storm season – perform aerial patrols



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Pole / Structure Inspections

- ▶ **1.4 million distribution poles**
 - ▶ 8-year inspection cycle
 - ▶ In 2020 - 172,545 inspected
 - Wood: 150,648 poles
 - Concrete: 21,897 poles
- ▶ **81,390 transmission structures**
 - ▶ 100% annual visual inspection
 - ▶ Inspection cycles:
 - Wood: 6-year cycle
 - Concrete/steel: 10-year cycle

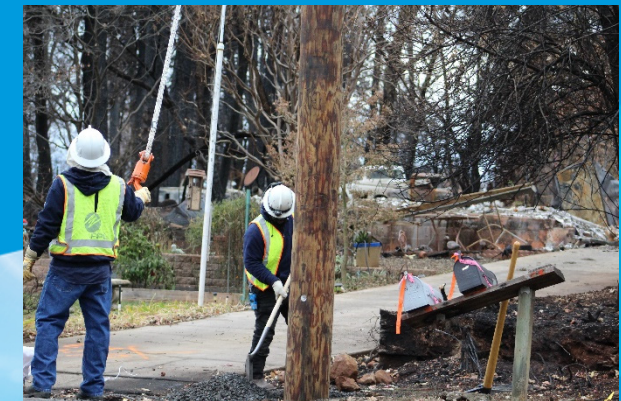
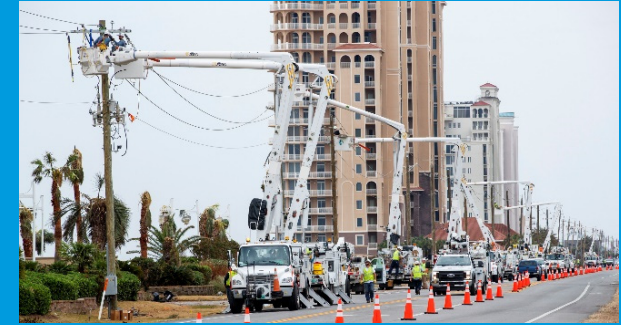


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Lessons Learned

- ▶ **Four storms affected FPL / Gulf in 2020: Isaias, Sally, Zeta, and Eta**
 - ▶ Experiences reinforce FPL's processes/initiatives
 - Acquisition and prestaging of material
 - Pre-staging resources/materials
 - Hardening beneficial
 - ▶ Consolidation of best practices and coordination between Gulf & FPL
- ▶ **Mutual assistance provided in 2020:**
 - ▶ Gulf Power Fires
 - ▶ Hurricane Isaias (New Jersey)
 - ▶ Midwest Derecho (Iowa)
 - ▶ Hurricane Laura (Louisiana and Texas)
 - ▶ Hurricane Sally (Florida and Louisiana)
 - ▶ Hurricane Delta (Louisiana)
 - ▶ Hurricane Zeta (Louisiana, Mississippi, Alabama, Georgia, and North Carolina)



Questions?

