Florida PSC 2016 Hurricane Season Preparation

Duke Energy

March 30, 2016
Hurricane Preparedness

- Storm Restoration Organization
- Distribution System
- Local Governmental Coordination
- Transmission System

Hurricane Preparedness
Storm Restoration Organization

• Storm Plan Continuous Improvement
• Annual Pre-Season Storm Drill
• Internal Resources
• External Resources
• Implementation of ICS into Storm Organization
Duke Energy focuses on restoring power in a sequence that enables power restoration to public health and safety facilities and to the greatest number of customers as safely and quickly as possible. A typical sequence of activities, many of which occur simultaneously, is as follows:

1. Public safety situations — locate downed power lines and make sure electricity is no longer flowing through the wires.
2. Transmission, substation equipment and main distribution lines — these serve large numbers of customers and large geographic areas, and must be restored first to keep electricity flowing from power plants to neighborhoods.
3. Essential facilities — emergency service and critical infrastructure such as hospitals, law enforcement, fire departments and water treatment facilities.
4. Distribution lines — we work to get the largest number of customers back on as quickly as possible.

**Restoration diagram**

1. Generation sources (power plants)
2. Transmission lines (supply large number of customers and large geographic areas)
3. Substation (where voltage is lowered)
4. Main distribution lines (deliver electricity to large subdivisions and commercial areas)
5. Power pole (showing underground service to hospital)
6. Local distribution or tap line (the type of line that runs along neighborhood streets)
7. Transformer (reduces service voltage to individual households and businesses — may also be padmounted on the ground)
8. Service lines (to individual homes)
Distribution System

- Pole & Structure Inspections
- System Maintenance
- Vegetation Management
- 10-Point Ongoing Storm Preparedness Plan
- Storm Hardening Rule
Transmission System

- Pole & Structure Inspections
- System Maintenance
- Vegetation Management
- 10-Point Ongoing Storm Preparedness Plan
Local Governmental Coordination

- Cross Functional Coordination Team
- Structured Information Sharing Before, During and After Hurricane
- Electronic Outage Data to EOCs
- Public Communications and Outreach
- “Know Where You Grow” Tree Program
Hurricane Season Preparation Conclusion

- T & D Systems Maintained & Checked
- Storm Organizations prepared and Drilled
- Internal and External Resources Secured or Committed
- Response Plan Tested and Continuously Improved