2016 HURRICANE SEASON PREPARATION

March 30, 2016

GULF POWER
A SOUTHERN COMPANY
Hurricane Season Plan

- Preparation
- Communication
- Restoration
Distribution Vegetation Management

- **Mainline Trimming (3 Year Cycle)**
  - Mainline Annual Trim Schedule (MATS)
    - Trimming of 1/3rd of the mainline system
    - 241 Miles Annually
  - Mainline Inspection and Correction Schedule (MICS)
    - Inspect and correct vegetation hazards on the other 2/3 of the mainlines annually
    - 482 Miles Annually

- **Lateral Trimming (4 Year Cycle)**
  - Scheduled Annual Lateral Trimming (SALT)
    - Maintenance of 1/4th of the lateral miles
    - 1,287 miles Annually
Distribution Inspections/Maintenance/Repairs

• Pole Inspections
  • Currently in the third year of the second 8 year cycle
    • 2015 – 25,563 poles inspected, 2.71% reject rate
    • 2015 – Replaced 633 poles
    • Since 2007 – Replaced 6,562 poles

• Feeder Patrols
  • Annual inspection of distribution feeders
  • Repairs scheduled for completion by June

• Infrared Inspections
  • Annual inspection of critical equipment
  • Inspections will be completed by end of March
  • Items are identified and prioritized for repairs by June 1st
Distribution Storm Hardening Measures

• Critical Infrastructure Improvements
  • Focus continues on key multi-feeder poles and facilities near major thoroughfares
  • Upgrading of infrastructure that serves hospitals and other key restoration customers
  • Projects in all three Districts
  • 2016/17 projects will be determined as part of the 2016 – 2018 Storm Hardening Plan

• Grade B Construction Standard
  • Construction design for both new installations and upgrade/maintenance initiatives
Transmission Vegetation Management

- **230kV R/W Vegetation and Correction**
  - Ground inspection patrols and correction of any vegetation hazards
  - 464 Miles Annually

- **115kV R/W Vegetation and Correction**
  - Ground inspection patrols and correction of any vegetation hazards
  - 1013 Miles Annually

- **46kV R/W Vegetation and Correction**
  - Ground inspection patrols and correction of any vegetation hazards
  - 101 Miles Annually
Transmission Inspections/Maintenance/Repairs

- **Pole Inspections**
  - Wood and Concrete Poles/Structures
    - Ground line – 12 year cycle
    - Comprehensive walking/climbing – 12 year cycle
      - Poles are visited every 6 years as programs run simultaneously
  - Metal Structures
    - Ground line – 18 year cycle
    - Ground line inspection cycle 18 year
    - Comprehensive walking/climbing or helicopter – 18 year cycle
      - Poles are visited every 6 years as programs run simultaneously
  - Aerial Patrols
    - Four patrols conducted annually
Transmission
Storm Hardening Measures

- Installation of guys on H-frame structures
  - Completed in 2012
- Replacement of wooden cross arms with steel arms
  - Year 9 of the 10 year program
Drills – Training - Improvements

• 2016 storm drill scheduled for May 3rd
• 2015 storm drill was held May 11th
• Ongoing refresher training
• Storm Assignments Companywide
• New Employee Orientation

• Improvements
  • Best Practices
  • On & Off System Events
  • Southeast Electric Exchange
Communication

- Government Cooperation
  - Employees assigned to county and state EOCs
  - Company news releases at least twice daily during a storm event
  - Participation in county and state drills

- Customer Outreach
  - Customer Newsletters
  - BRACE
  - Civic Presentations
  - “Feederline 2013”

Website: www.gulfpower.com

Outage Maps:

Mobile App:
Communication

• Third Party Attacher Meetings
  • Continue to meet with attachers bi-annually across the system
    • Planned distribution major projects
    • Grade B construction standards and pole loading calculations
    • Pole inspection program
    • Operational Issues
    • Pole removal program
    • Exchange contact information

• Forestry Services
  • Communications with members of the community and government officials concerning vegetation management projects, right of way maintenance, new construction projects, and company construction projects
  • Seven certified arborists on staff
Storm Recovery Plans

- 2016 Storm Procedures are being updated
  - Plans apply to any natural disaster
  - Mutual Assistance
    - Southeastern Electric Exchange
    - Southern Company affiliate
  - Contracts and arrangements are in place for food, accommodations, staging sites, and transportation needs
  - Material and fuel inventory levels are increased during storm season
Distribution
Forensic Data Collection

- Contract in place for data collection
  - Data collected in predetermined areas
  - Uses hand held computers loaded with Gulf’s infrastructure data base to collect data on damaged facilities
  - Will not slow down the restoration efforts
- Data will be supplied for analysis
- On-going refresher training
  - Operational
  - Data Transfer
Restoration Activities

- July 2015 – sent crews to support Alabama Power following a severe line of thunder storms and high winds in the Birmingham area
- October 2015 – Hurricane Patricia Remnants
Storm Restoration Activities

February 15th Tornadoes - Century
Storm Restoration Activities

February 23rd Tornadoes - Pensacola
Areas of Concern

- Multiple events
  - People
  - Materials
- Decline in available resources
- Social Media Awareness
- Safety of the general public
Summary

• Gulf Power Company is fully prepared
  • Systematic and safe restoration plan in place
  • Transmission and Distribution storm hardening initiatives
  • Communications within the communities we serve with government officials, third party attachers, and our customers
  • Past experiences both on and off system