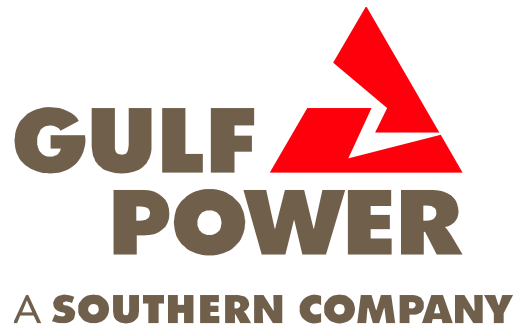


# 2016 HURRICANE SEASON PREPARATION

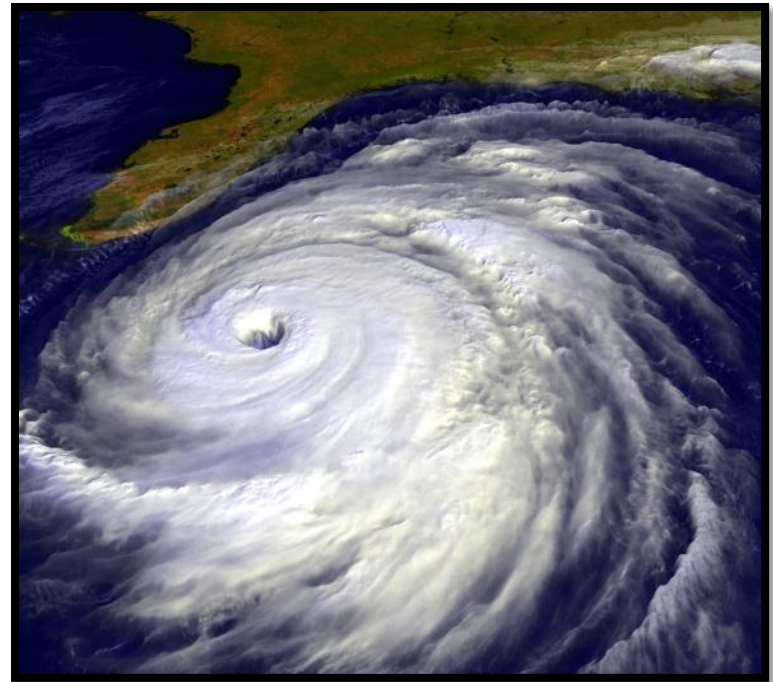
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March 30, 2016



# Hurricane Season Plan

- Preparation
- Communication
- Restoration



# Distribution Vegetation Management

- Mainline Trimming (3 Year Cycle)
  - Mainline Annual Trim Schedule (MATS)
    - Trimming of 1/3<sup>rd</sup> 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 1/4<sup>th</sup> 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

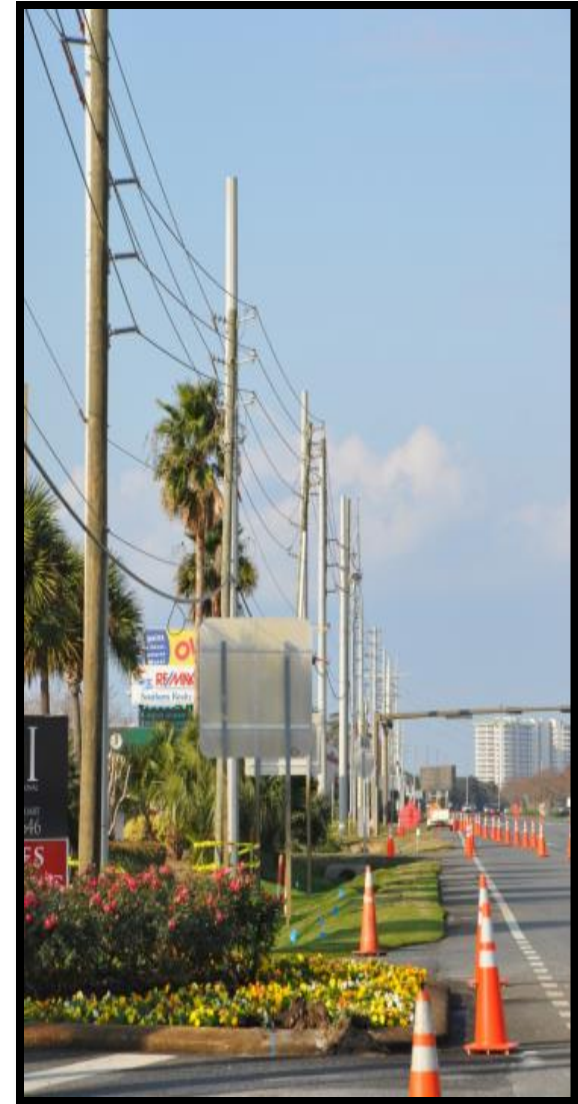
- Infrared Inspections

- 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





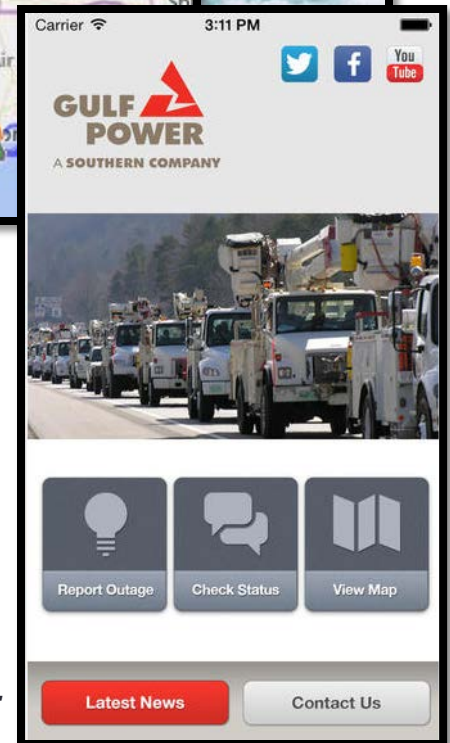
# Drills – Training - Improvements

- 2016 storm drill scheduled for May 3<sup>rd</sup>
- 2015 storm drill was held May 11<sup>th</sup>
- Ongoing refresher training
- Storm Assignments Companywide
- New Employee Orientation
- Improvements
  - Best Practices
  - On & Off System Events
  - Southeast Electric Exchange



# Communication

Website:  
[www.gulfpower.com](http://www.gulfpower.com)



- 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”

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

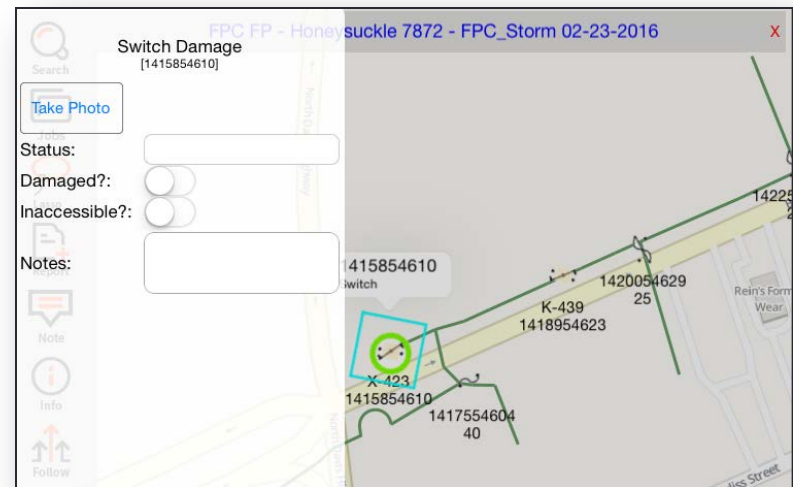
- 2016 Storm Procedures are being updated
  - Plans apply to any natural disaster
  - Mutual Assistance
    - Southeastern Electric Exchange
    - Southern Company affiliate
- Contracts and arrangements are in place for food, accommodations, staging sites, and transportation needs
- Material and fuel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



# Distribution

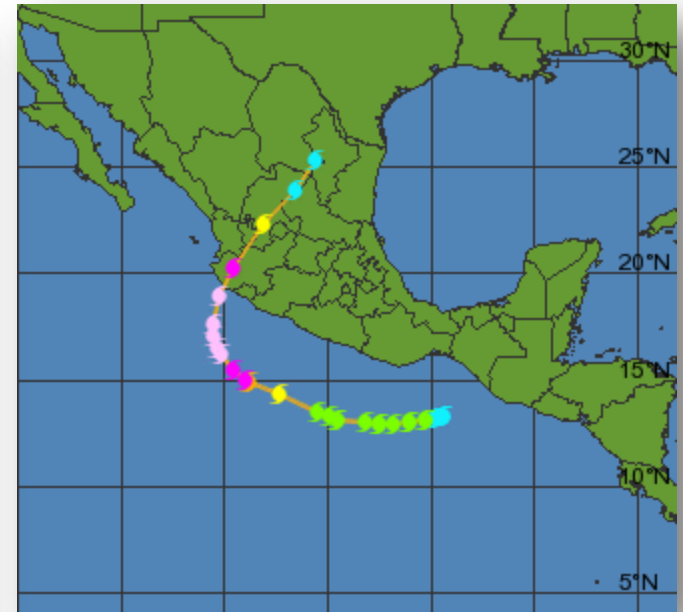
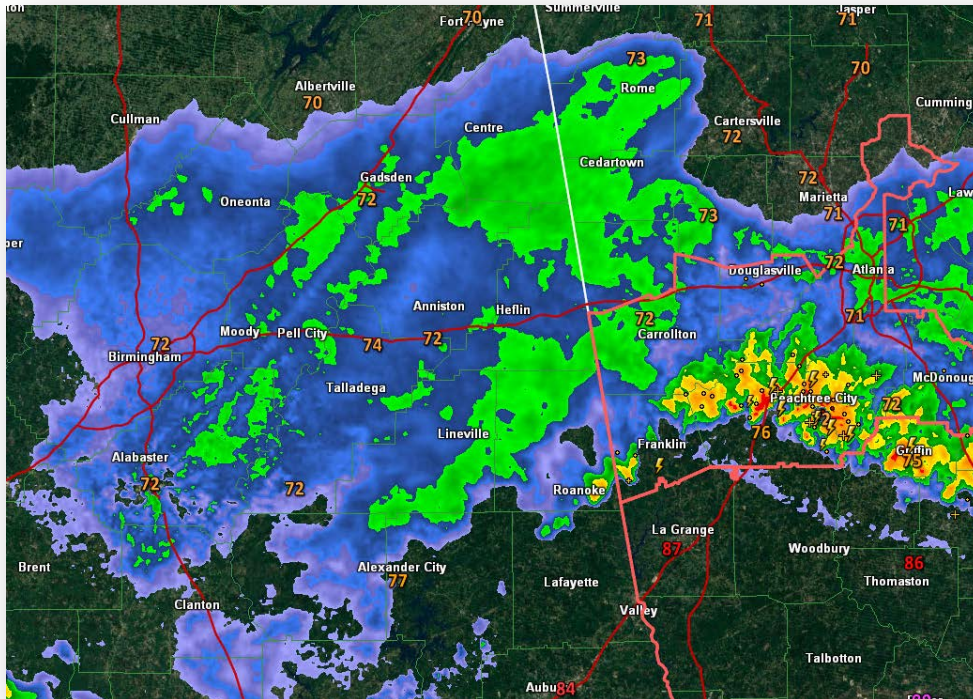
## Forensic Data Collection

- 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 15<sup>th</sup> Tornadoes - Century



# Storm Restoration Activities



February 23<sup>rd</sup> 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

