



2010 HURRICANE SEASON PREPARATION BRIEFING

PSC Workshop

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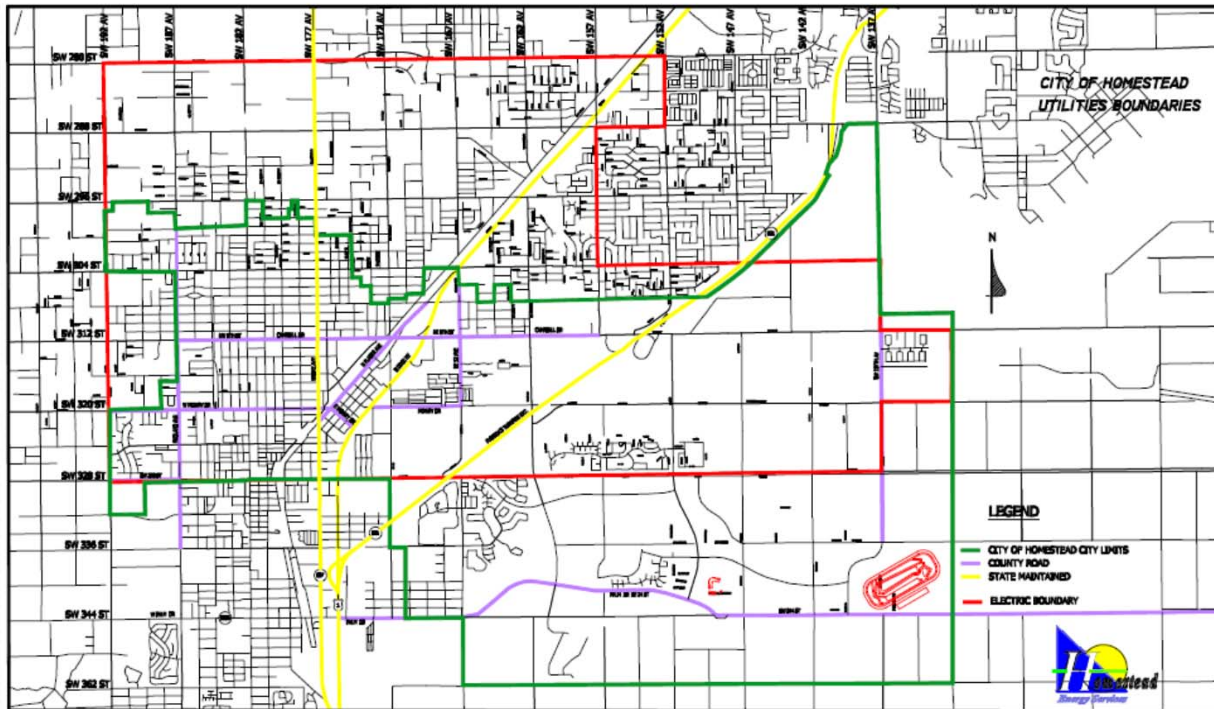
Today's Presentation

- System Overview
- Hurricane Experience
- Storm Hardening Preparation
- Emergency Operations
- Emergency Response
- Other Features

System Overview - Who We Are



System Overview - HES



Located in Miami-Dade County

14.4 Square Miles

1 Power Plant

- 16 Dual Fuel Generators
- Peak Capacity of 45 MW
- HES Plant Covers 10% of load
- Ownership in Off-site Plants = 47%
- Long-Term Contracts = 34%

4 Transmission Lines

- 10 miles of line
- 135 poles

1 Transmission Substation

4 Distribution Substations

19 Main Feeder Circuits

- 167 miles of line
- 6,100 poles
- 66% Overhead
- 34% Underground

21,500 Customers

Hurricane Experience

- History of working at home as well as assisting other utilities:
 - Andrew 1992 – Local hit – “The Big One”
 - Georges 1998 – Local hit
 - Charlie 2004 – Support to Wauchula
 - Katrina 2005 – Local hit
 - Rita 2005 – Local hit
 - Wilma 2005 – Local hit
 - Next?: We are prepared and willing to help



Storm Preparation: System Design & Hardening Standards



- Reliability Program
 - Identify and Replace System Components Approaching End of Life – including Substation Equipment
 - Correct Outage Drivers on Feeders with High Incidence of Interruptions
 - Partner with Procurement to Purchase Best Technology, Materials and Equipment
- Pole Inspection program
 - 8 Year Cycle
 - 2 Years of Inspections completed
 - All Priority Deteriorated Poles Replaced
- Harden all new and replacement Feeder and Lateral poles
- Design for placing facilities underground along major arterials
- Underground first run of feeder sections out of the substation



Storm Preparation: System Design & Hardening Standards



- Vegetation Management Cycle
 - Distribution: 2 Year Trim Cycle
 - Transmission: 3 Year Trim Cycle
- Thermovision
 - Perform Annual inspections on Distribution, Substation and Transmission facilities
 - Address all Hot Spots
- Increased Material Inventory
- Construction Standards
 - Build to NESC 150 mph wind contour
 - Utilize Extreme Wind Loading Standards
 - Front lot line construction
 - 90% of new distribution construction underground
 - All new transmission poles, or scheduled replacements, are concrete
 - Ensure “foreign” utility attachments meet HES design standards

Emergency Operations



- Integration into City of Homestead Incident Management Plan
 - National Incident Management System (NIMS)
 - Incident Command System (ICS)
 - Utilize Area Command Concept for Operations
 - Electric Utility liaisons @ City Emergency Operations Center (EOC)
 - Restoration managed through Electric Utility Control Center
- Yearly Review of City and Electric Utility Hurricane and Emergency Response Procedures
 - Procedures Updated as Needed
 - Storm Assignments Reviewed
 - Training/Refresher Conducted for Electric Utility Personnel on Processes
 - Critical Customer List Reviewed and Updated
- Patrol of Assigned Feeders
 - Problems Identified and Corrected Prior to Storm Season

Emergency Response



- Call In Number in Place for Assessing Employee Availability
- Safety Focus
 - Discussions and Process Review with HES Crews and Support Personnel
 - Discussions with Mutual Aid Crews
- Equipment and Crew Preparations per Plan put in motion
- Storm Assignments developed depending on forecast severity
 - Assessment Teams
 - Crew Assignments
 - EOC Liaisons
- Restoration Priorities Established
 - Hazards
 - Critical Customers
 - Circuits with Most Customers Served
 - Circuits with Lesser Damages
 - EOC Directives

Emergency Response



- Customer Service
 - Processes for Customer Status Updates Reviewed
- Schedules and Work Locations Established
- Mutual Aid Agreements Utilized
 - Florida Municipal Electric Association
 - Florida Municipal Utilities
 - American Public Power Association
 - National Municipal Utilities
 - Florida Electric Coordinating Group
 - Florida Municipal, IOU and Cooperative Utilities

Other Features



- Restoration Progress tracked in Storm Restoration Room
 - Dynamic Board using GIS Information
 - Progress Regularly Communicated to:
 - EOC
 - Customer Service
 - Customers via Multiple Media Outlets
 - Electrical Restoration managed through Electric Utility Control Center
- Back Up Call Center
- Logistical Support through the City
 - ✓ Meals
 - ✓ Lodging
 - ✓ Laundry
- Excellent Coordination and Communication with Other City Departments
 - Police / Traffic Control
 - Fire / Hazard Calls
 - Water and Sewer / Lift Stations
 - Elected Officials