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Timolyn Henry 060198

From: S. Denise Hill [dhill@publicpower.com]
Sent: Wednesday, May 31, 2006 2:23 PM
To: Filings@psc.state.fl.us
Subject: Green Cove Springs Storm Hardening Report

Attachments: Green Cove Springs Storm Hardening Report.doc

Green Cove Springs Storm Harde...

Dear Sir/Madam,

Attached is the Implementation Plan for Ongoing Storm Preparedness for the City of Green Cove Springs.

Thank you,

Denise

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Ongoing Storm Preparedness
City of Green Cove Springs Implementation Plan
May 30, 2006

A. Introduction

The City of Green Cove Springs (GCS) operates a municipal electric utility located in Clay County, Florida. This report is intended to provide an outline of GCS continuous efforts to prepare for hurricanes and other sever weather events which may impact our service territory. Green Cove Springs Electric operates substations and distribution facilities currently serving approximately 3600 customers covering 25 square miles in eastern Clay County. For information contact:

Mr. Gregg Griffin
Director of Utilities
1289 Harbor Road
Green Cove Springs, FL 32043
904-529-2249
ggriffin@greencovesprings.com

During 2005 we were affected by some Hurricane force winds with minor damage to our distribution system. All power was restored in under two (2) days by in house personnel.

B. Three-Year Vegetation Management Cycle

The City of Green Cove Springs trims its entire distribution system on an annual cycle by outsourcing the work. We are also investigating Tree Growth Regulation technologies for high profile trees in our historic district in combination with traditional trimming.

C. Transmission and Distribution Geographic Information System

Due to the limited resources currently available, small service area, and no previous emphasis on the need for modern GIS technology to be in place, Green Cove Springs does not use a Geographic Information System for electric infrastructure. A multi-layer system does exist within the Public Works department which is completely manual at this time. Work is underway to convert a set of consultant supplied GIS maps for shared use across the City database. We have an asset database in place which contains information on each pole including age of the pole, condition of the pole and equipment on the pole, type of pole, and any attachments to the pole. The database is routinely updated when work orders are performed on the distribution system.

D. Wooden Transmission vs. Concrete Transmission Structures

This section is not applicable to the City of Green Cove Springs – the City has no transmission system by definition of > or = 69KV. Our 25KV is strategically deployed on static cast concrete poles throughout our service territory. We have one Transmission tie to FPL thru FMPA which is controlled by the OUC operations center.

E. Post-Storm Data Gathering, Data Retention and Forensic Analysis

Day to day outages are reported to City Hall where a hard copy work order is generated and passed along to the Electric Journeymen. The Journeyman repairs and completes a daily work ticket recording time, equipment and materials. He also notes the cause of the outage and repairs or replaces any materials necessary to avoid a similar future outage at the location.
In the event a major Hurricane outage occurs, GCS Electric will implement a damage assessment procedure identifying and marking one line maps with the intent of rebuilding the system with backbone feeder priority. No Data Retention or Forensic Analysis plan is currently in place

F. Audit of Joint-Use Pole Attachment Agreements

GCS does not currently audit pole attachments on city-owned poles. We have not performed rigorous stress calculations on joint use poles which we share with both telephone and cable TV. However, during normal field operations join-use poles are examined by knowledgeable field personnel to identify obviously overloaded poles. Furthermore, the City has not experienced any failures of poles due to overloading.

G. Six-year transmission Inspection Program

Green Cove Springs does not have any transmission facilities greater than or equal to 69KV by definition. . The City of Green Cove Springs receives transmission service through FPL and FMPA power supply contract.

H. Collection of Outage Data Differentiating Between the Reliability Performance of Overhead and Underground Systems

The City of Green Cove Springs does not differentiate between overhead and underground outages in collecting outage data. GCS is primarily overhead with two large subdivisions and one expansive golf course community underground. All of our residential growth for new construction is now mandated by ordinance to be underground service for increased reliability.
We do not currently calculate the various reliability indices (SAIDI, CAIDI, SAIFI, MAIFE, and L-Bar) for the system as whole and do not differentiate between overhead and underground. However, it is a near term goal to provide means to produce these statistics internally.

I. Coordination with Local Governments

As a department of the City of Green Cove Springs, all levels of the electric utility practice a continuous, cooperative and appropriate level of coordination with other units of the city and Clay County. Our city is also the "County Seat" of government and as such has established good line of communication with disaster management and emergency operations staff.
With regard to storm preparedness/recovery, we are active participants in the local Clay County Emergency Operations Center (EOC). In the event the EOC is activated, a GCS representative is stationed at the EOC throughout the storm/recovery period. This person provides a direct contact between the EOC, other response agencies and GCS.

J. Collaborative Research Through the Public Utility Research Center (PURC) at the University of Florida

The City of Green Cove Springs, through its membership in the Florida Municipal Electric Association and its involvement with Public Utility Research Center (PURC) at the University of Florida, participates in PURC activities related to storm hardening research.