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**Timolyn Henry**

**From:** S. Denise Hill [dhill@publicpower.com]  
**Sent:** Wednesday, May 31, 2006 2:32 PM  
**To:** Filings@psc.state.fl.us  
**Subject:** Winter Park Storm Hardening report

**Attachments:** Winter Park Storm Hardening report 4 -6.doc



Winter Park Storm  
Hardening re...

Dear Sir/Madam,

Attached is the Implementation Plan for Ongoing Storm Preparedness for the City of Winter Park.

Thank you,

Denise

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# Ongoing Storm Preparedness City of Winter Park

## A. Introduction

This is the Storm Preparedness report for the City of Winter Park Electric Utility. For further information, contact:

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The City of Winter Park Electric Utility began operations on June 1, 2005 after purchasing the distribution system from Progress Energy. The City of Winter Park is in Orange County and the electric utility serves approximately 14,000 customers.

The Winter Park Electric Utility consists of two substations and a distribution system serving approximately 9 square miles in the City of Winter Park. The utility purchases wholesale power from Progress Energy. The City owns no generation or transmission facilities.

One of the substations and the entire distribution system were purchased from Progress Energy "as is". The system, as purchased, was not in good condition and the outage rates were high. The City has committed to a long-term program of system improvement. A major portion of that program is a plan to underground as many of the distribution lines as possible which will take many years to complete. As part of preparations for the upcoming storm season, we have installed two new feeders from one substation to relieve high loading on existing feeders and to provide operational flexibility among feeders. All new portions of these feeders were installed underground.

In 2005, the electric utility sustained only minor damage from the outer bands of hurricane Wilma.

## B. Three-Year Vegetation Management Cycle

The City has trimmed more than half of the distribution system since taking over on June 1, 2005. Once we complete an initial trim, the goal is to establish an overall 3 year trim cycle with a 2 year cycle in specific problem areas.

## C. Transmission and Distribution Geographic Information System

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The City received only non-GIS electronic maps of the distribution system with the purchase of the system. We have completed putting the primary feeders into GIS and are working on the secondary level. We are in the final stages of contracting for a system wide pole inspection to be completed in one year. Part of that inspection will be a GIS pole inventory.

D. Wooden Transmission vs. Concrete Transmission Structures

The City of Winter Park owns no transmission facilities.

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

The operations and maintenance contractor employed by the City operates an electronic outage management system. Outage records are kept and reported in a number of different formats, including morning reports, customer outage reports, and daily crew logs. Outage statistics are kept and reported including SAIDI, CAIDI, SAIFI and MAIFI. There is a performance reward/penalty clause in the contract whereby the contractor is rewarded or penalized based on outage performance. All major outages are discussed in detail with City staff and analyzed for cause, corrective actions, and lessons learned.

F. Audit of Joint-Use Pole Attachment Agreements

The City is in the process of negotiating joint use agreements with the other utilities and organizations using our poles. We are in possession of a pole contact inventory completed by Progress Energy as part of the sale of the distribution system. Foreign pole contacts and their effect on pole strength will also be an item included in the pole inspection GIS report to be provided by our pole inspection contractor (see paragraph C, above).

G. Six-year transmission Inspection Program

The City of Winter Park owns no transmission facilities.

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

The reliability reports and statistics are currently calculated on a system wide basis, without regard to underground or overhead. The data that is collected, however, does differentiate between overhead and underground and could be reported separately. As more of the distribution is placed underground, the statistical reports will be changed to reflect the situation.

I. Coordination with Local Governments

As a department of the City, the electric utility coordinates very closely with the forestry division of the City Parks and Recreation Department on vegetation management. Forestry is responsible for the tree maintenance along public rights-of-way within the City as well as at the City parks and recreational facilities.

During major storm events, the electric utility coordinates closely with all appropriate City departments including Fire, Police, and Public Works to achieve rapid and safe storm recovery. All City departments are included in the City's disaster recovery readiness planning and training. The electric utility maintains a presence in the City Emergency Operations Center during major disaster events.

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

The City, through 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.