

Control Number: 32182



Item Number: 41

Addendum StartPage: 0



32182

Entergy Texas
919 Congress Avenue
Suite 840
Austin, TX 78701
Tel 512 487 3999
Fax 512 487 3998

2006 MAR 13 PM 1:51
RECEIVED

March 13, 2006

Mr. James Galloway
Central Records
Public Utility Commission of Texas
1701 N. Congress Ave.
Austin, TX 78701

Subject: **Project No. ~~32128~~** Infrastructure Reliability, Emergency Management, and
Homeland Security Matters

Attached for filing are ten (10) copies of the Entergy Gulf States presentation made
by Joseph F. Domino, President and CEO of Entergy TX, at the Public Meeting in
Beaumont, Texas on February 22, 2006.

Thank you for your assistance in this matter.

Sincerely,

L. Barry Howell
Manager, Regulatory Affairs
Entergy Gulf States

Attachments

Hurricane Rita Impact & Recovery



Preparation

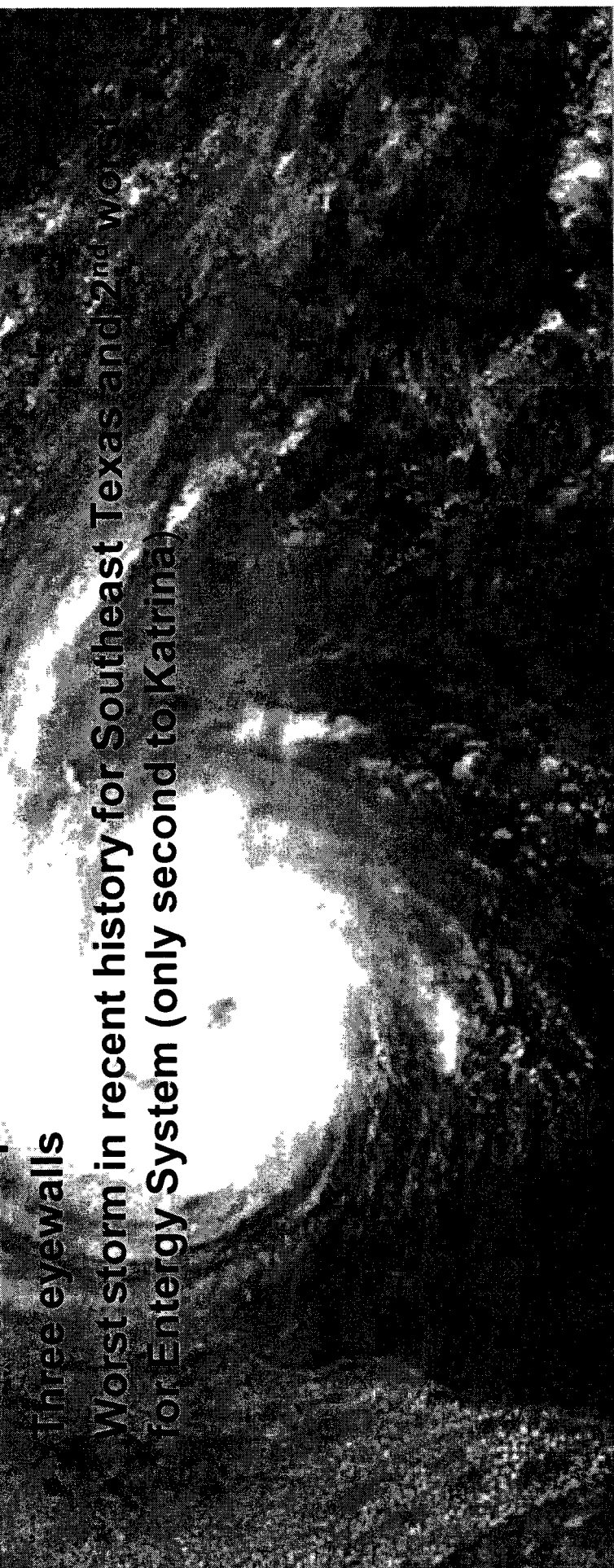
- Annual Storm Drill In April
- Weather Monitoring
 - Impact Weather in Houston
 - Greg Bostwick Beaumont area meteorologist
 - WSI Weather Services in Massachusetts
- Mutual Assistance Calls With Other Utilities
 - Edison Electric Institute
 - Southeastern Electric Exchange
 - Texas Mutual Assistance
 - Off System Utility Contractors
- Alternate Command Center Staffed and Operational
- Pre-Stage Materials, Fuel, and Personnel
- Ramp Up Staffing At Call Centers System Wide
- Review Checklist and Storm Plan

Rita Hits Southeast Texas



Sept 24, 2005

- Landfall 2:38AM east of the Sabine River
- Tracked through Southeast Texas
- 120 mph winds Southeast Texas
- Hurricane/Tropical Force winds 24hrs in Southeast Texas
- Three eyewalls
- Worst storm in recent history for Southeast Texas and 2nd worst for Energy System (only second to Katrina)



Rita's Path Through Southeast Texas

A map showing the path of Hurricane Rita through Southeast Texas and Louisiana. The map includes state boundaries for Texas and Louisiana, and the Gulf of Mexico coastline. Major cities are marked with dots, including Houston, Pasadena, Baytown, The Woodlands, Springtown, Port Arthur, Galveston, Corpus Christi, San Antonio, Austin, Dallas, Fort Worth, and New Orleans. A thick black line indicates the path of the hurricane, starting from the Gulf of Mexico, passing through the Texas-Louisiana border, and continuing into Louisiana. A legend in the bottom right corner shows four categories of wind speed: >74 mph (dark gray square), 55-74 mph (light gray square), 25-55 mph (medium gray square), and <25 mph (white square). A scale bar at the bottom left indicates 5 PM Sat 50 mph. A date stamp '5 AM Sat 120 mph' is visible near the Houston area. The map is credited to 'Courtesy of Port Arthur News'.

TEXAS

LOUISIANA

5 PM Sat 50 mph

5 AM Sat 120 mph

Legend:

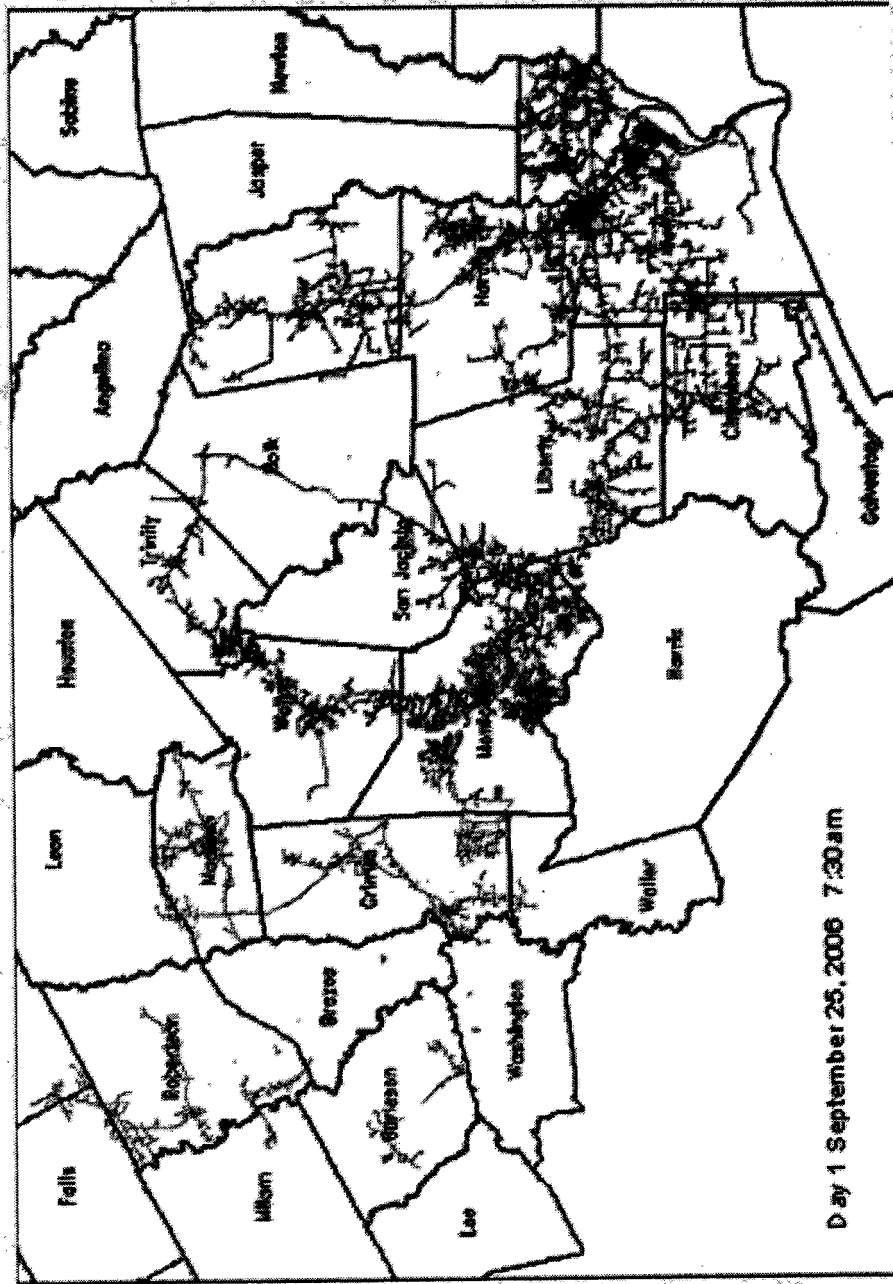
- >74 mph
- 55-74 mph
- 25-55 mph
- <25 mph

Courtesy of Port Arthur News

[illegible]

Recovering/Restarting

Day 1: All eastern Entergy Texas service area out



Rita Statistics

286,609 Customers without lights at peak
Entergy Texas has 372,891 total
customers
77% of customer base directly affected

8,970 Distribution Poles Replaced
Entergy Texas has 323,236 poles
2.8% of total poles replaced

8,040 Distribution Transformers Replaced
Entergy Texas has 142,358 aerial
transformers
5.6% of total transformers replaced

Rita Statistics

981 Wood Transmission Poles Replaced

- Entergy Texas has approximately 34,600 wood poles
- 2.8% of total poles replaced

26 Steel Lattice Towers Replaced

- Entergy Texas has 940 steel lattice towers
- 2.8% of total structures replaced
- 24 lattice towers replaced with concrete or steel structures (mono-pole & H-frame)

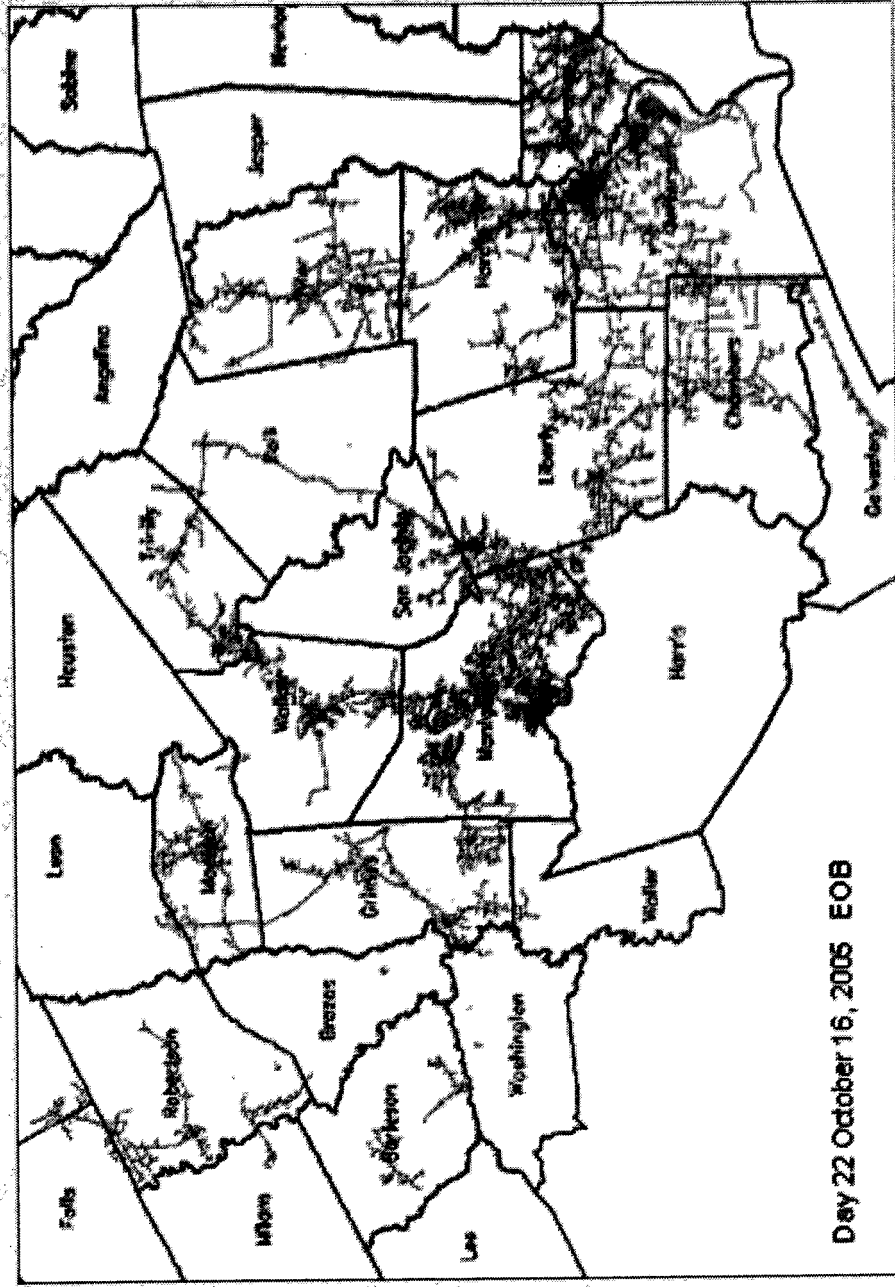
- 2 river crossing towers replaced in Kind

Recovery Activities

- Early Assessments (Ground and Air Patrols)
- Request For Additional Mutual Assistance
 - ◆ Over 10,000 workers
- Established Transmission Tie With ERCOT In The Dayton Area
- Established Emergency District for Galveston & Portions of Chambers Counties
- Checked and Established Communication Links with Field Offices, Alternate Command Center, and System Command Center
- Conducted Daily Calls With Field Management to Optimize Restoration Efforts
- Establish Daily Calls With Local officials And Emergency Personal To Review Progress and Plans
- Opened (CLC's) Customer Information Centers
- Participated in State TIGER Team In Austin
- Provided a contact person in state command center for PUCT

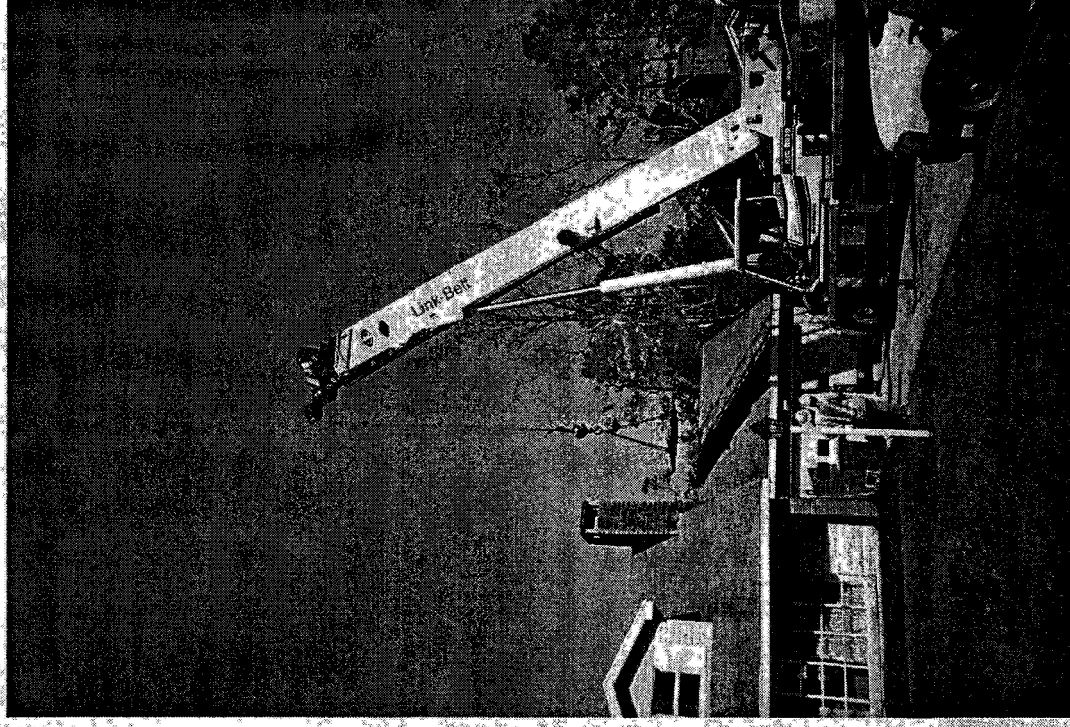
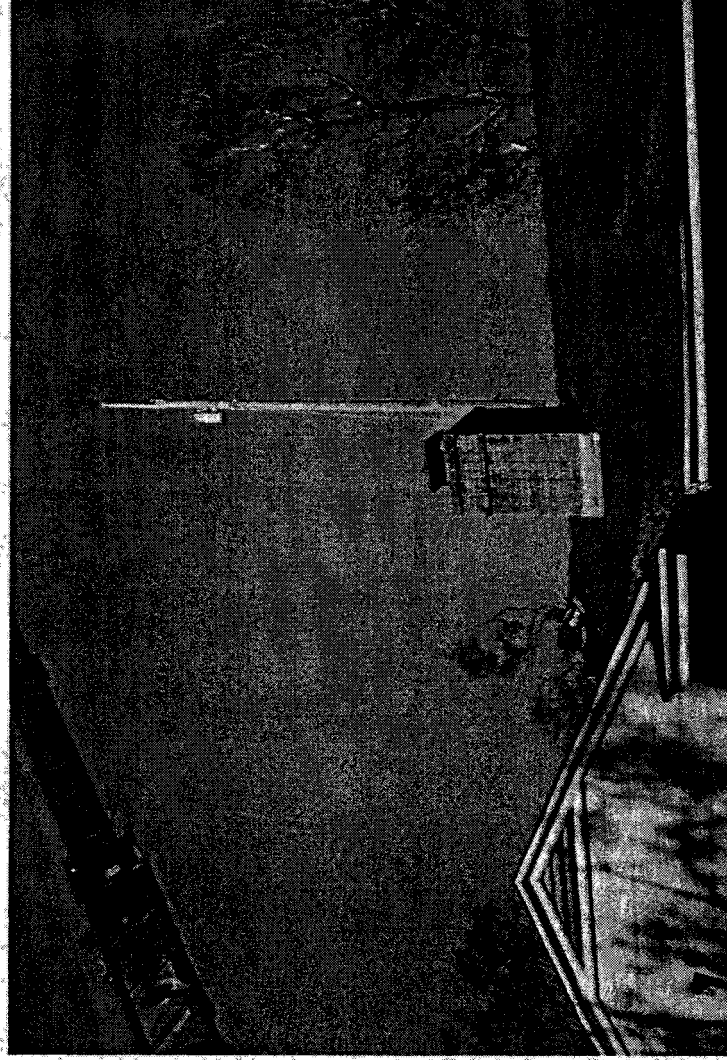
Recovering

Regular Nightly TV Spots Showing Restoration To Damaged
Areas Utilizing Automated Mapping System



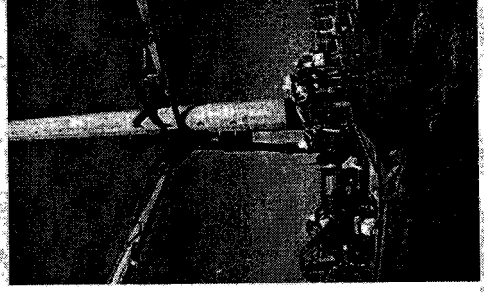
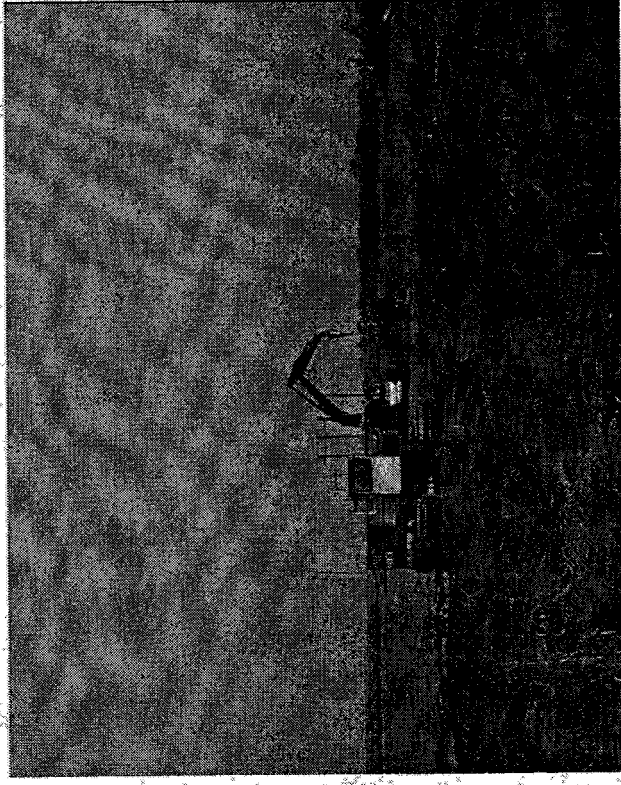
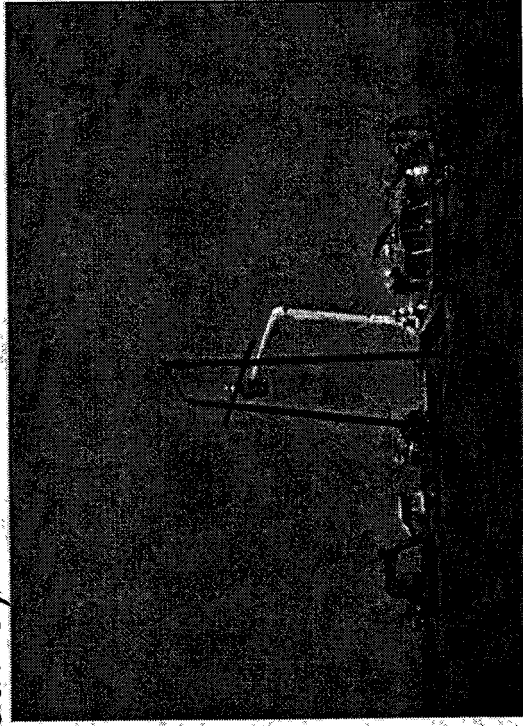
Recovering

Brought In Specialized Equipment i.e Back Yard Buggies, Cranes For Rear Lot Work (Lessons Learned From Florida Storms in 2004)



Recovering

Brought In Specialized Equipment i.e. Off-road and Marsh Equipment, Heavy Lift Helicopters, etc.. (Lessons Learned From Katrina)



Results Were Effective

- Week One 39% of customers restored
- Week Two 85% of customers restored
- Week Three all customers restored
- Week Three Minimum of Single Source Feed To All Substations
- Re-established all transmission lines to Substations - December 22



Off ROW Trees Causing Damage



Lessons Learned

- **Severe Infrastructure Damage Caused By Wind and Trees**
 - ◆ Coastal Areas experienced moderate wind damage
 - ◆ Further inland, severe damage due to falling trees due primarily to the heavy pine tree density
 - ◆ Pine trees located as far away as 100 feet from power lines caused damage
 - ◆ Downed trees caused accessibility problems not only at work sites but roadways were blocked in the entire area
- **Congestion of Work sites were minimal**
 - ◆ Large number of evacuees and keeping evacuees from returning early kept traffic and public activity from hindering early restoration efforts.
- **Aerial Patrols expedited Damage Assessment – Especially when it is wide spread**
- **Special equipment such as large cranes and helicopters proved invaluable for restoration in inaccessible areas.**
- **Logistics**
 - ◆ Use of tents for mass housing
 - ◆ Alternate housing Civic Auditorium, gymnasiums
 - ◆ Flexible to changing situations

Post-Storm Activities

- Remove damaged or danger trees from outside the right of way
- Remove hanging limbs over power lines
- Environmental clean up from transformer damaged as needed
- Right of Way clean up as needed
- Patrols of distribution lines with all damages and temporary repairs corrected
- Conducted post-storm evaluation

Moving Forward

- Continue existing programs
 - ◆ Distribution pole inspection program
 - ◆ Reliability reviews and targeted enhancements
 - ◆ Cycle tree trimming
 - ◆ Danger tree & skyline activities
- Study construction standards for coastal regions
- Continued use of Automated Load Transfer Systems