



# System Reliability

Feeder Maintenance Program

Pedernales Electric Cooperative

# The Mission

To provide reliable electric service is our core business at Pedernales Electric Cooperative. A comprehensive maintenance program has been created to help all districts follow the same long-range preventative measures and improve our overall system reliability.

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# Scope Of Work

Scope of work developed including:

## Poles

- Identify severe leaning poles
- Check structure integrity
- Identify bad order poles
- Feeders

## Hardware

- Identify shelled/cracked insulators
- Identify aluminum bells
- Identify non-porcelain cutouts
- Identify deteriorated or damaged cross arms and braces
- Identify damaged lightning arrestors
- Identify stacked arrestors
- Inspect for any flash damage



# Scope of Work (cont'd)

## Inventory Facilities

- GPS primary poles
- Identify ownership of foreign poles with Co-op's primary contacts
- Devices: OCR's, Regulators, Capacitors, ABS, Disconnect Switches
- Overhead conductors: type, size, quantity, etc
- Construction Units

## Minor Construction

- Inspect guy wire for proper tension and grounding
- Ensure guy markers are present and connected
- Inspect/install wildlife protective equipment
- Pole grounds





# Feeder Maintenance

## Getting Started:

- Rank the Feeders – Worst performing to best
- Divide into Groups of 25 Feeders
- Begin Inspection

PEC hired Utility Support Systems (USS) to perform the Feeder Maintenance inspections and inventory.



# Feeder Maintenance

Maintenance Work:

PEC Reliability & Can-Fer Construction Crews

- Crews will be assigned work orders generated by USS inspection process.
- Perform the field work and return construction packet to office personnel for final completion.
- Invoice approval, work load and progress monitoring are centralized from one department within PEC.



# Conclusion

As of Spring 2010, PEC is approximately half way through this maintenance plan. The results of this program are evident in our reliability numbers. Our members have experienced fewer outages and as a result remain satisfied with their electric service.

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