Clay Electric Cooperative, Inc.

- Headquarters in Keystone Heights
- Serving into 14 North Florida Counties
  - Alachua, Columbia, Levy, Union
  - Baker, Flagler, Marion, Volusia
  - Bradford, Gilchrist, Putnam
  - Clay, Lake, Suwannee
- Operates from 6 District Offices
  - Gainesville, Orange Park
  - Keystone Heights, Palatka
  - Lake City, Salt Springs
<table>
<thead>
<tr>
<th>Statistic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miles of Overhead Distribution Line</td>
<td>10,698</td>
</tr>
<tr>
<td>Miles of Underground Distribution Line</td>
<td>2,129</td>
</tr>
<tr>
<td>Miles of Transmission Line</td>
<td>213</td>
</tr>
<tr>
<td>Number of Substations</td>
<td>46</td>
</tr>
<tr>
<td>Number of Services Connected</td>
<td>173,579</td>
</tr>
</tbody>
</table>
Standards of Construction Distribution

• National Electric Safety Code Compliance
• Extreme Wind Loading Not Utilized
• Flooding and Storm Surges – Clay is a non-coastal utility
• Attachments by Others – agreements require attaching party to verify clearances and strength designed by Profession Engineers.
Standards of Construction Transmission

- Extreme wind loading used on all lines built or rebuilt after 2007.
- New lines built using concrete poles with polymer insulators.
- 5 miles wood pole lines replaced with concrete.
- Clay now has 100 miles of concrete poles versus 113 miles of wood poles.
Facility Inspections Distribution

• Performed ground line inspection on 10 year cycle per RUS guidelines prior to 2007.
• Beginning 2008 Clay began migration to 8 year cycle. Beginning 2013 Clay will be completely on 8 year cycle.
• Clay has approximately 206,000 wood distribution poles.
• 2011 Clay inspected 21,549 poles (10.46%)
• PROGRAM IS ON SCHEDULE!
Facility Inspections Transmission

• 1,688 wood poles, 908 concrete poles, 14 steel poles.
• Groundline inspection every 8 years, next inspection 2014.
• Helicopter inspection 3 times annually completed March, July, November 2011.
• Ground Visual patrol every 2 years. Last 2010, Next 2012.
• Climbing inspection every 4 years. Last 2008, Next 2012.
• PROGRAM IS ON SCHEDULE!
Vegetation Management
Distribution/Transmission

• Feeder recut cycles 3, 4, 5 years based on right-of-way width and growth.

• 3 year – 25%
  4 year – 40%
  5 year – 35%
  System Average 3.9 years

• Program includes trimming, mowing, and chemical spraying

• PROGRAM IS ON SCHEDULE!

• Clay educates customers with “Keep the Lines Clear” and “Landscape Planning” brochures.
STORM PREPAREDNESS

Annual Activities:

• Emergency Plan Reviewed & Revised
• Internal Resources Assigned
• Outside Contractors Identified
• FECA Mutual Aid Agreements Updated
COMMUNICATIONS

• Establish Communication Lines for County EOC’s with CEC Member Relations
• Establish Communication Lines for Local Law Enforcement with CEC Control Center.
• Daily updates on storm restoration progress and work areas.
  
  State EOC
  Local EOC
  Local Media
  Cooperative Web Site

• Web Based Graphical Outage Map
SUMMARY

• Transmission/Distribution System Inspected and Maintained.
• Storm Plan Reviewed & Revised
• Communication Plans continuously Reviewed and Revised.
Areas of Vulnerability

• Heavy Right-of-Way – Large amount of Distribution in rural wooded areas.
• Insufficient Outside Crews
• Multiple Storms