All injuries can be prevented
Fall Protection Pilot Program

- One Core responsibility of a Lineworker is to Climb Wood Poles and Work Aloft
- Over the Years First Energy has Experienced a Number of Cut-outs on Wood Poles Resulting in Falls
- Several of those Falls Resulted in Serious Injuries

All injuries can be prevented
Product Evaluation

- 2007, Line personnel in three states were provided samples of the Buckingham and Bashlin products for trial use and evaluation.
- After 6 months of evaluation by numerous participants, employees indicated that they Preferred the Buckingham system.

All injuries can be prevented
Fall Protection Pilot Program

- FirstEnergy’s Safety Goal is Zero Accidents and Injuries
- Our Plan to Reduce Injuries Due to Cut-Outs on Wood Poles, Includes Implementing a 100% Fall Protection Program

All injuries can be prevented
Fall Protection Pilot Program

Strategy:

- Review FE Cut-out Injury Data
- Review Current Regulatory Initiatives, Work Practices, and Available Technology
- Discuss fall statistics with Bargaining unit leadership to achieve buy in for wood pole fall protection.

All injuries can be prevented
FE Cut-Out Injury Data (2002-Present)

24 Pole Cutout Injuries that were reported.

- 67% of all cut-outs resulted in an OSHA recordable event (16 incidents)
- 13% of all cut-outs resulted in medical attention (3 incidents)
- 20% or all cut-outs resulted in minor injuries (5 incidents)

All injuries can be prevented
# FE Cut-Out Injury Data (2002-Present)

<table>
<thead>
<tr>
<th>Year</th>
<th>Line</th>
<th>Injury Description</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>Line C&amp;M</td>
<td>Fell from pole approx. 30' following crossarm replacement; stepping over crossarm during unbelted descent; lost grip</td>
<td>Back fracture; concussion; head injury</td>
</tr>
<tr>
<td>2003</td>
<td>Line C&amp;M</td>
<td>Cut out on pole during storm; did not fall to ground</td>
<td>Splinter in neck; laceration</td>
</tr>
<tr>
<td>2005</td>
<td>Line C&amp;M</td>
<td>Fell from H-structure pole approx. 15’-18'; unbelted to get around X-brace; free climbing descent; gaff hit knot in pole</td>
<td>Back fracture; permanent disability</td>
</tr>
<tr>
<td>2005</td>
<td>Line C&amp;M</td>
<td>Fell from pole approx. 25’-30'; unbelted to climb over lower set of double buck arms; lost grip or footing</td>
<td>Multiple fractures - shoulder, ribs, knee</td>
</tr>
<tr>
<td>2007</td>
<td>LC&amp;M-D</td>
<td>Fell from 65' pole while descending approx. 15' when student lost balance</td>
<td>Fractured rib; chest wall contusion</td>
</tr>
</tbody>
</table>

All injuries can be prevented
Results of Survey Conducted on Employees Who Were Injured

• The Majority Were Ascending or Descending Pole When Cut-out Occurred
• The Majority Were Belted Around the Pole While Ascending and Descending
• All Were Considered to be Average or Above Average Climbers

All injuries can be prevented
ANATOMY OF A FALL

- .33 Sec  Aware  2 feet
- .67 Sec  React  7 feet

Generating 1700 to 2500 lbs of Force

1 Sec  = 16 feet
2 Sec  = 64 feet
Evaluation Comments

- Buckingham device is closest in design to traditional pole strap.
- Veteran climbers indicated they will have few concerns with transition to Bucksqueeze.
- With extensive use of bucket trucks throughout the industry, veteran climbers do not climb frequently and will welcome fall protection.

All injuries can be prevented
Strategy Going Forward

• Current Students in PSI programs will learn to climb with Bucksqueeze and use throughout their career. They will also be trained and qualified in free style climbing.

• Incumbent climbers will be trained in use of Bucksqueeze and its use will be phased in through July, 2009.