Hurricane Impact: Damage
Recovery & Rebuilding / Telecommunications

Michael Parks
General Manager – C & E
AT&T Vision

• To be the only communications and entertainment company our customers will ever want
Damage

• Central Offices
  - 11 affected offices
  - 5 totally devastated (6193 customers)

• Facilities
  - Feeder: 204,000 customers affected
  - Distribution: Total customers affected unknown
Damage

• Physical Assets
  – Trucks
  – Test Equipment
  – Tools
## Damage – Central Office

<table>
<thead>
<tr>
<th>Totally Devastated</th>
<th>Customers Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delacroix</td>
<td>173</td>
</tr>
<tr>
<td>Lake Catherine</td>
<td>464</td>
</tr>
<tr>
<td>Pt-A-La-Hache</td>
<td>609</td>
</tr>
<tr>
<td>St Bernard</td>
<td>4557</td>
</tr>
<tr>
<td>Yscloskey</td>
<td>390</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6193</strong></td>
</tr>
</tbody>
</table>
## Damage – Copper Feeder Facilities

<table>
<thead>
<tr>
<th>Totally Destroyed Cables</th>
<th>Customers Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadmoor – 18</td>
<td>16,000</td>
</tr>
<tr>
<td>Chalmette – 25</td>
<td>24,000</td>
</tr>
<tr>
<td>Franklin – 34</td>
<td>45,000</td>
</tr>
<tr>
<td>Lake – 27</td>
<td>26,000</td>
</tr>
<tr>
<td>Mid City – 31</td>
<td>24,700</td>
</tr>
<tr>
<td>Seabrook – 34</td>
<td>44,700</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>204,400</strong></td>
</tr>
</tbody>
</table>

*Copper Footage Affected: 1.9M Sheath Feet*
## Damage – Distribution Facilities

<table>
<thead>
<tr>
<th>Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerial Spans</td>
<td>2,249</td>
</tr>
<tr>
<td>Poles</td>
<td>1,622</td>
</tr>
<tr>
<td>Distribution Interfaces</td>
<td>744</td>
</tr>
<tr>
<td>Pedestals / Terminals</td>
<td>33,000</td>
</tr>
<tr>
<td>DLE Remote Terminals</td>
<td>34</td>
</tr>
</tbody>
</table>
Recovery / Rebuilding

- Objectives
  - Re-establish service to all customers with a greater emphasis on First Responders and essential personnel
Recovery / Rebuilding

• Priorities
  – First Responders and essential personnel
  – Wireless providers
  – Businesses and neighborhoods based on governmental direction and repopulation
Recovery / Rebuilding Strategy

• First Responders and Essential Personnel
  – Establish liaisons with First Responders and essential personnel to determine communication needs

• Wireless
  – Establish dedicated teams to re-establish wireless service
Recovery / Rebuilding Strategy

• Businesses and Neighborhoods
  – Utilize Allocation Area maps and calculate total service orders and troubles to determine rebuild rank Wireless
Recovery / Rebuilding Technology

- Microwave point-to-point
- SLC On Wheels (SOWs)
- Fixed Wireless
- Wireless Broadband
- Reclaimed cable through the use of DaVar test equipment
- Digital Loop Electronics (DLE)
Recovery / Rebuilding Infrastructure

- Feeder route backbone with fiber in all devastated wire centers
- DLE deployed at a level above the 100-year flood plane
- Dual power source (commercial and generator)
Recovery / Rebuilding
What Was Required?

• Resources
  – Added 1400 resources (planners, designers, technicians, managers)

• Network
  – Placed 1.5M linear feet of fiber
  – Placed 1.7M linear feet of copper
  – Built 162 DLE sites by 04.15.2007
  – Placed 35 SOWs
  – Placed 4 Wireless Broadband towers
Recovery / Rebuilding Challenges

• Hurricane
• Flooding
• Access to network
• Right Of Way (ROW)
• Public sentiment
The Future

• Complete Feeder network rebuild by third quarter 2007

• Synchronize Distribution network rebuild with repopulation and governmental direction

• New Orleans will have one of the most advanced technologically based infrastructure in the United States to handle the basic needs of our customers and will serve as an incubator for advanced services