Purpose

• Summarize Needs
• Present Preliminary Solutions
• Obtain feedback on solutions
• Continue to comply with FERC open planning requirements
Preliminary Key Messages

- Load forecast growth rate similar to 2013 Assessment
- Generation assumption changes
- Some new or advanced projects
- Some projects delayed or cancelled
- Participating in Regional Studies
Assessment Process

Inputs & assumptions

Base Model

Needs, **Solutions, Sensitivity:** Yr 1

Needs, **Solutions, Sensitivity:** Yr 5

Needs, **Solutions, Sensitivity:** Yr 10

Needs, **Solutions:** Yr 15

Document Results

Communicate Results & Collect Input

Stakeholder Communication
ATC System Peak Demand Forecast Comparison

- **ATC Actual** peak data series prior to 2001 is estimated using ATC Top 5 customers' peaks and applying a typical diversity factor.

- The "reconciled" forecast adjusts the LSE forecasts downward by 239 MW to account for load "netted" in the historic EMS data but "load only" in the forecasts. This is done for comparative purposes only.
Generation Changes

- Retirements (-265 MW)
- Wind (-29 MW)
- Other increases (+10 MW)
- Other reductions (-24 MW)
## Need Drivers Summary

<table>
<thead>
<tr>
<th>Need Drivers</th>
<th>Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>G-T</td>
<td></td>
</tr>
<tr>
<td>TSR</td>
<td>X</td>
</tr>
<tr>
<td>Condition</td>
<td>X</td>
</tr>
<tr>
<td>Economic Benefits</td>
<td>X</td>
</tr>
<tr>
<td>Load Growth</td>
<td>X</td>
</tr>
<tr>
<td>Dispatch/Biases</td>
<td>X</td>
</tr>
<tr>
<td>Regional</td>
<td></td>
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</tbody>
</table>
# Load Range Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Year(s) Studied</th>
<th>2013 TYA</th>
<th>Model</th>
<th>Year(s) Studied</th>
<th>2014 TYA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Peak</td>
<td>2014, 2018, 2023, 2028</td>
<td></td>
<td>Summer Peak</td>
<td>2015, 2019, 2024, 2029</td>
<td></td>
</tr>
<tr>
<td>Minimum Load (40% peak)</td>
<td>2014, 2023</td>
<td></td>
<td>Minimum Load (40% peak)</td>
<td>2015, 2019</td>
<td></td>
</tr>
<tr>
<td>70% Load Firm Transfers (All-Projects Model Only)</td>
<td>2018, 2023</td>
<td></td>
<td>Shoulder Load (70/80/90% peak) Firm Transfers (All-Projects Model Only)</td>
<td>2019, 2024</td>
<td></td>
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</tbody>
</table>
Sensitivity Models

<table>
<thead>
<tr>
<th>2013 TYA</th>
<th>2014 TYA</th>
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</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td><strong>Year(s) Studied</strong></td>
</tr>
<tr>
<td>Not Studied</td>
<td>N/A</td>
</tr>
<tr>
<td>90% Load E-W Bias</td>
<td>2018, 2023</td>
</tr>
<tr>
<td>70% Load W-E Bias</td>
<td>2018, 2023</td>
</tr>
</tbody>
</table>

- No new public policy requirements were identified beyond what is modeled
Contributing Studies

- 1st contingency Needs – 4 years
- Multiple Outages
- Generation – Transmission studies
- Distribution – Transmission studies
- Economic Benefits studies
- Regional Reliability
- Public Policy Benefits
- Bay Lake studies
Preliminary Impacts to Capital Forecast

• First 2 years
  – 2 projects deferred
  – 8 projects advanced
  – 1 project cancelled
  – 2 projects added

• Beyond 2 years
  – 4 projects deferred
  – 0 projects advanced
  – 4 projects cancelled
  – 6 projects added

• Refer to Preliminary Network Project List for more detail
Stakeholder Communication

• February – April 2013
  – Requested load forecast from LDCs

• September 2013
  – Sent final load forecast back to LDCs
  – Process and assumptions meeting
  – Suggested new sensitivity studies

• February 2014
  – Posted preliminary needs summary

• April 2014
  – Stakeholder preliminary needs and solutions meeting
Next Steps

- Spring – Cost estimates developed
- Spring – Study write-ups drafted
- Summer – ATC Review/approval
- Autumn – Publication
Questions?

For more information, please contact
David Smith
Phone: 920-338-6537
Email: dsmith@atcllc.com
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