RTEP Reliability Analysis Update

TEAC Meeting
March 14, 2007
RTEP Status – 2012 Analysis

• Base Case Development Complete
• Generator Deliverability thermal analysis complete.
• Load Deliverability thermal analysis complete.
• Initial results forwarded to transmission owners.
• Reactive analysis is in progress.
• N-2 Analysis is in progress. Expect to forward initial results to transmission owners within the next week.
RTEP Status – 15 Year Analysis

- Intend to incorporate potential solutions to problems identified in the 2012 analysis
- Expect to perform 15 year analysis with and without potential solutions to problems identified in 2012
RTEP – Result Overview to Date

• Mid-Atlantic load deliverability continues to stress the system
  – Mt.Storm – Doubs and Keystone – Conemaugh and Keystone – Airydale 500 kV circuits at or above conductor limit

• Significant reactive issues associated with Mid-Atlantic and Eastern Mid-Atlantic load deliverability
RTEP – Potential Issues

• Potential Issues
  – Our initial analysis has identified a number of potential issues that we are reviewing with the transmission owners.
  – We’ll continue to update the TEAC as our analysis progresses.
• AEP Zone
  – Beatty – Hall Road 138 kV
  – Darrah – Tristate 138 kV
  – Elliot – Postel Tap
  – Greentown 765/138 kV transformer
  – Martinsville – Stockton 138 kV
  – Prep Plant Tap – Conesville
  – Tri State 345/138 kV transformer
  – West Canton – Dale 138 kV

• Dusquene Zone
  – Cheswick – Logan’s Ferry 138 kV
• **APS Zone**
  - Albright – Brandon Junction 138 kV
  - Mahans Lane – Tidd – Weirton 138 kV
  - Mitchell – Shepler Hill 138 kV
  - Necessity – Texas Eastern 138 kV
  - North Union – Texas Eastern 138 kV
  - Roxbury – Greene 138 kV
  - Windsor – Tiltonsville 138 kV
• ComEd Zone
  - Byron - Wempletown 345 kV
  - Cherry Valley 345/138 kV transformer
  - Dresden 345/138 kV transformer
  - East Frankfort – Goodings Grove 345 kV
  - East Frankfort 345/138 kV transformer
  - Elmhurst – Franklin Park 138 kV
  - Glenn Ellen – Lombard 138 kV
  - Lisle – York 138 kV
  - McGir Road – Mendota 138 kV
  - Montgomery – Oswego 138 kV
  - Ridgeland 138/69 kV transformer
  - Rockwell – Humbolt 138 kV
  - Waterman 138 kV
RTEP – Potential Issues

• JCPL Zone
  – East Windsor – Smithburg 230 kV
  – Greystone – West Wharton 230 kV
  – Portland – Martins Creek 230 kV

• Met Ed Zone
  – Jackson – Baker Tap 115 kV

• PN Zone
  – Conemaugh – Airydale 500 kV
  – Keystone – Conemaugh 500 kV
  – Keystone – Airydale 500 kV
  – Blairsville 138/115 kV transformer
  – Warren – Falconer 115 kV
  – Two Mile Run – Farmers Valley 115 kV
• AE Zone
  – Cumberland – Union 138 kV
  – Monroe – Landis Tap 69 kV
  – Sheldalloy – Central North 69 kV
  – Landis Tap – Sheldalloy 69 kV

• Delmarva
  – Indian River – Omar 138 kV
  – Lank – Five Points 69 kV

• PEPCO Zone
  – Pleasant View – Dickerson 230 kV
  – Station H – Quince Orchard “23032” 230 kV
• Dominion Zone
  – Lexington – Dooms 500 kV
  – Loudoun 500/230 kV transformers
  – Pleasant View 500/230 kV transformer
  – Endless Caverns 230/115 kV transformer

• BGE Zone
  – Sollers Point – Riverside 230 kV
  – Brandon Shores – Hawkins “2344” 230 kV
  – Wagner – Solley 115 kV “34” and “35” circuits
  – Riverside – Riverside Tap 138 kV
  – Deer Park – Deer Park Tap 115 kV
  – Deer Park Tap – West Rock 115 kV
  – Harrison – Granite 115 kV
• APS / PEPCO
  – Doubs – Brighton 500 kV
• APS / PN
  – South Bend – Keystone 500 kV
• Dominion / APS
  – Mt Storm – Doubs 500 kV