Transmission Expansion Advisory Committee

Interregional Planning Update

August 13, 2015
• 2025 summer and winter scenario build – on schedule
  – June preliminary builds
  – July-August validation and final case posting
  – October transfer analysis
  – December presentation & stakeholder input

• TC & EC recommendations
  – Commit to “step 1” - construct validated model for EI transmission studies. PC’s choose level of commitment
  – No commitment to NERC MOD 32 activity – monitor NERC progress

• Grant Work
  – Complete. Last invoice to DOE by August 15
• Order 1000 interregional Compliance filings complete
  • Focus turns to implementation

• NCTPC
  – Operating guide discussions - September 30

• PJM/MISO JOA
  – Quick Hit upgrades
    • Commitment on Beaver Channel – Sub 49 upgrade – 2013/14 benefit $7M
    • Michigan City – Laporte discussions continue – 2013/14 benefit $3M, 2015 DA congestion to date $7.3M
    • Tracking RTEP and MTEP upgrades addressing $300M congestion
• PJM/MISO JOA
  – IPSAC August 21 – focus Metrics & Process
    • Engage discussion to accomplish near-term improvements
    • Outline longer-term enhancements
    • Michigan interface targeted ad hoc study
  – Reply to FERC August 14 – NIPSCO proceeding
  – MISO MEP Coordination
    • MISO Duff – Coleman MEP
    • MISO board recommendation in December
    • Alternatives involving Rockport have been suggested – potential PJM reliability operational performance benefits
Rockport – Coleman 345kV Option

• MISO focus MEP under study early 2015
  – MISO evaluated Duff – Coleman 345 kV $67.2M
    • Extensive work and analysis in MTEP 2014 and 2015
    • Newtonville-Coleman 161kV congestion in Southern Indiana
    • Duff-Coleman B/C = 15.9
    • MISO evaluated single circuit Rockport-Coleman had higher benefits but higher costs for B/C=14.4
    • Rockport – Coleman 345 kV $76.3M (1ckt, 1xf)
• PJM recently informed of Rockport – Coleman option
• PJM – Rockport long standing operational complexity
  – SPS long part of Rockport operation
  – 4400 MW event in 2007 & subsequent NERC review
  – 2009 implemented additional SPS controls to mitigate 2007 event
  – Surrounding area flows and generation increase faster than transmission
  – PJM only alternatives are long HV lines
  – Due to electrical topology Interregional solutions are more cost effective
• Initial PJM review suggests MISO solutions involving Rockport may also address the operational performance issues at Rockport in addition to addressing MISO’s regional need
Other Alternatives

• Rockport – Coleman 345 kV option
• Duff – Rockport – Coleman 345 kV
Next Steps

• Complete evaluation of Rockport alternatives
  – Complete “No Harm” analysis
  – Finalize validation of SPS removal

• Cost sharing between PJM and MISO - TBD

• MISO Schedule
  – July 29 PAC – PJM option discussed with PJM support
  – August 19 PAC – PJM initial results
  – September – November MISO reviews (MISO PAC and SPC)
  – December 10 MISO BOD meet
Questions?

Email: RTEP@pjm.com
• Revision History
  – Original version distributed to the PJM TEAC