Inter-regional Planning Update

Transmission Expansion Advisory Committee

November 8, 2018
  - October 5, 2018 IPSAC
    • Interregional 2016/17 congestion TMEP study results
    • Interregional MEP study – 2018/19
      - Regional studies in progress and on schedule
      - November 1 finalize PJM models, open for proposals (regional and interregional)
    • Cleanup revisions to JOA §9.3 and §9.4 posted with September PC materials
Interregional Update

  - IPSAC completed regional issues and solutions review May 18, 2018 – NCSP posted
  - Preparation for December 10, 2018 IPSAC Agenda
    - Review interregional process
    - Review regional plans and solutions
    - Review interconnection project coordination
    - Stakeholder input

- SERTP - regional process: [www.southeasternrtp.com](http://www.southeasternrtp.com)
  - Biennial interregional review completed May 8, 2018 – Atlanta
  - Next biennial interregional review – spring 2020
• TVA – LGE/KU JRCA update
  – PJM and TVA have exchanged update suggestions including
    • Coordinated planning provisions consistent with the Order No. 1000 interregional process
    • Add more detail to existing coordinated planning provisions
    • Expand or clarify existing processes for coordination of Long Term Firm Transmission Service and Balancing Authority integrations

• IESO study of MISO and NYISO interfaces
  – In person meeting October 24, 2018
  – PJM monitoring and providing input as needed
  – Target completion Q4 2019
  – PJM objective is knowledge of projected interconnected operations
• EIPC support for NERC EI frequency response review is complete
• State of the Eastern Interconnection released by EC (posted with October TEAC meeting materials)
• Production Cost Eastern Interconnection model
  – Consultant (ABB) nearing completion of engagement to resolve remaining modeling issues and complete EI-model
• NERC discussions for potential Agreement to establish EIPC as “designee” under reliability standard MOD-032-1
  – NERC notified EIPC further discussions on hold until 2019
Interregional Targeted Market Efficiency Projects

Study Results
• 61 historically congested M2M flowgates evaluated
  ~$520 million total congestion
• Many driven by outages
• Many have already planned upgrades/system changes
• 2 projects recommended

Full study results were presented at the October 5 PJM/MISO IPSAC
Marblehead 138/161 kV

Flowgate ID(s): 23418
Historical Congestion: $15.5 million
Ownership: AMIL
Outages Impacting: None Identified
Planned Upgrades: None Identified
Current Rating: 280/287/287/287
Upgrade Type: Terminal equipment
Upgraded Rating: 300/300/300/300
Upgrade Cost: $175 k
TMEP Benefit: $12.4 million
Benefit Allocation: 0% / 100% (PJM/MISO)

Note: No PJM board approval required
Flowgate ID(s): 2047, 21530, 22613
Historical Congestion: $ 9.8 Million
Ownership: DEI – IPL tie
Outages Impacting: None Identified
Planned Upgrades: None Identified
Current Rating: 1195/1195/1195/1195
Upgrade Type: Substation equipment
Upgraded Rating: 1374/1374/1798/1798 MVA
Upgrade Cost: $4.3 million
TMEP Benefit: $ 19.5 million
Benefit Allocation: 7% / 93% (PJM/MISO)
Upgrade ID: b3053