Removal of the Quad Cities Remedial Action Scheme (RAS)

ComEd / Exelon Corporation
Transmission Planning
April 2019
Quad Cities RAS

✓ Original Purpose

• Stability trip was installed to prevent instability for three-phase fault during a line outage
• Multi-line outage trip was installed to prevent thermal overloads during outages of multiple lines
• Described in ComEd System Planning Operating Guide (SPOG) 1-3-C and PJM Manual 3
• RAS is normally in-service. Multi-line trip can be disabled based on operating conditions

✓ RAS Action

• Trips Quad Cities Unit 2 for specified three-phase faults in combination with a line outage
• Trips Quad Cities Unit 2 and generation at TSS 940 Cordova for specified multiple line outages
Quad Cities RAS Removal

✓ Analysis by ComEd and PJM has determined that RAS is no longer necessary to meet planning criteria.
  • Attributed to incremental reinforcements implemented since this RAS was first placed in service.
  • Stability is monitored in TSA by PJM Operations

✓ The Quad Cities RAS is planned to be disabled by year-end 2019 with physical removal completed in 2020.

✓ Reliability First has been informed of the RAS removal per RF RAS Review Procedure
Questions?