Transmission & Substation Subcommittee Update

Ray Rouault, TSS Chair
Jay Liu, TSS Secretary
Planning Committee
• TSS Guideline Review Special Call has completed technical review and updates of Transmission Owner Guidelines (2017 version) [http://www.pjm.com/planning/design-engineering/maac-to-guidelines.aspx](http://www.pjm.com/planning/design-engineering/maac-to-guidelines.aspx)
  – Two rounds of technical reviews:
    • TSS member review (1/2014- 9/2016)
    • TSS member company peer review (9/2016 – 7/2017)
  – Added design parameters for 765kV, 115kV and 69kV
  – Reviewed and updated technical references
  – Reviewed and updated technical guidelines in the areas which have undergone changes in “best utility practices” since last revision of Chapter I-V, Chapter VII-VIII (2002 or before).
  – Chapter VI Rating Guides (2012) has no change at this stage but rating methodology workshops have been scheduled for further technical review.
Other Major TSS Activities in 2017

- IEEE Power & Energy Society General Meeting Supersession Panel presentation on power grid resiliency and transmission system design (7/2017)
- Technical Workshops
  - CTC Global Technical Workshop on ACCC Conductor (8/2017)
  - Resiliency related topics (10/2017):
    - Smart Inverter and its potential impact in power grid design
    - Updates on IEEE 1547 development and potential grid impact on power grid design
- TSS member survey on STATCOM and SVC station service power design per request by PJM Operation following “NERC Lesson Learned - Auxiliary Power Loss to STATCOM Leads to UVLS Operation” (9/2017-10/2017)
• TSS Special Call of *Confirmative OHL Rating Assessment Methodology*
  – Technical workshops in March 2018

• TSS Guideline review on
  – Potential updates per CIP compliance
  – Potential updates per Resilience requirements