



Transmission and Substation Subcommittee Updates

Brian Lynn

Secretary, TSS

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Planning Committee: December 5th, 2023

- TSS is a technical advisory group under PC [\(Link\)](#)
 - TSS Chair: Shashi Patel, PSE&G
 - Secretary: Brian Lynn, PJM
- Maintain technical guidelines for transmission facilities
 - Investigate new technologies and develop associated design guidelines
 - Track best practices of the industry
- Monthly meetings

- TSS Guideline Chapter VI Rating Guides revision to meet FERC Order 881 required AAR methods
 - Section VI.a Bare Overhead Transmission Conductor Ratings revision was completed to meet FERC Order 881 required AAR ratings
 - OHL Conductor Rating Calculation Tool (2023 Revision) is posted with enhanced report options and improved calculation efficiency for peer review
 - Section VI.e Outdoor Substation Conductor Ratings revision is near completion
 - The associated rating calculation tool will be updated by Q2 2024 in coordination with the OHL rating tool

- TSS team reviewed other rating sections and recommended applicable updates by Q1, 2024
 - Some equipment sections (Circuit Breaker, Air Switch, Line Trap, Underground Cable, etc.) may need further alignment with industry practices to include manufacturing inputs
- TSS Guideline Chapter 4 Spare Equipment Philosophy
 - 2023 periodic review concluded that no immediate revision is needed

- TSS discussed technology and engineering methods on transmission transformers' physical securities enhancement and associated resilience measures - calls for further input and best practice survey from TOs on this subject is under the way
- New TSS Guideline Section V.r GIS Facility Design Guide is approved for posting at the November 2023 TSS meeting
- New TSS Guideline Section VI.i GIS Facility Rating is approved for posting at the November 2023 TSS meeting

- Investigation, analysis and discussion on:
 - New design and O&M challenges associated with climate change
 - New materials and technologies
 - Participation at industry technical forums

Presenter:
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Transmission and Substation Subcommittee Update



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