



Designated Entity Design Standards Task Force Update

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PJM Planning Committee
December 15th, 2016

- Issue Charge/Problem Statement:
 - Develop minimum engineering design standards, which would take into consideration geography, physical and other local needs (noise level, undergrounding requirements, etc.) of the project. The design standards would apply to projects that are competitively solicited and address the following areas:
 - a. Transmission Lines
 - b. Substations
 - c. System Protection and Control Design and Coordination
 - <http://pjm.com/~media/committees-groups/task-forces/dedstf/postings/20150818-dedstf-issue-charge.ashx>

- Q1 2016 the DEDSTF elected via informal poll to divide into the following three subgroups to focus attention on specific minimum design standards:
 - Transmission Lines
 - Substations
 - System Protection and Control Design and Coordination
- These groups are currently in the process of utilizing existing documentation, M07 and TSS guidelines as a strawman to develop minimum design standards.



Transmission Lines Subgroup Update

- Scope A – Overhead Transmission Steady Progress continues
 - Created a solid working draft
 - Approximately 80-90% through subgroup review
 - Plan to solicit comments from respective companies in February/March and post a draft for PC endorsement by May
- Scopes B & C (Underground and HVDC) need to be developed
 - Group has had preliminary discussions regarding the effort for Scope B - underground.
 - We anticipate that we will need DC expertise to assist in Scope C.

Protection and Control Subgroup update

- General consensus that PJM Manual M7 is a strong starting point
- Additional items, not covered in PJM Manual 7 to be discussed
 - Rack design (terminal block reqs, wire sizing, general rack layout/arrangement)
 - Protection design (CT, VT selection, supervisory relays, test switches, etc)
 - Metering requirements
 - SCADA
 - Alarm requirements
 - Commissioning procedures
 - Disturbance Monitoring Equipment (PRC-002, 018??)
 - 69kV solutions

- DEDSTF will recommend that majority of topics are already covered in M7
- Develop additional documentation to address things not covered in M7
- Coordination with Relay Subcommittee on several topics
- Expect to deliver draft documentation Q1 2017



PJM DEDSTF Substation Subgroup

- Engaged support from the TSS committee
- Review of Transmission Owner Guidelines
- Detailed review of sections - Completed
 - AC Design
 - DC Design
 - Functional Criteria
- Continue to work on updating existing language and develop various sections
- Ensure document is functional
- Expect to deliver draft around March/April 2017
 - Some sections may require additional work and a second round of PC review

- Please direct all questions to the PJM DEDSTF facilitation team:
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