

**PREP WORK**

Subgroup members review agenda and provide the following to staff by 3/16/18 (If providing slides, final slides due 3/21/18):

- 1) If you do not support the Regulated Utilities' Draft Proposal, a proposed discussion topic outline or red-lined/track changes draft of Regulated Utilities' TIIR proposal;
  - a. Include a description of the purpose/role of the statewide technical requirements
- 2) Rationale and list of topics with summary/examples of content considered in scope of a utility TSM
- 3) List of definitions that need to be discussed
- 4) Review the proposed Phase II Agenda/Topics for 7 meetings (attached)

**Technical Subgroup Meeting 1 DRAFT AGENDA**

**Friday, March 23<sup>rd</sup>**

**9:30am – 12:30pm**

WebEx: <https://global.gotomeeting.com/join/432598661>

Dial in option (webex preferred): 1-571-317-3112; 432-598-661#

- 1) Introductions – 15 mins
  - a. Welcome and Subgroup Expectations
- 2) Discussion: What is the purpose/role of the statewide technical requirements? – 15 mins
- 3) What's in and out of scope for statewide technical requirements document? – 2 hours
  - a) Regulated Utilities' TIIR Draft Proposal – Regulated Utilities Representative(s) – 25 mins
  - b) Proposed discussion topics or changes related to the Regulated Utilities Draft Proposal – Others – 25 mins
  - c) List of topics with rationale and summary/examples of content proposed for utility specific TSMs. What level of transparency and approval is appropriate and why? – Utilities – 20 mins; Non-Utilities – 20 mins.
  - d) Discussion/Questions – 30 mins
- 4) Inventory of Definitions we need to address in future meetings – 5 mins
- 5) Check in on the Phase II Outline – Agendas/Topics for 7 meetings – any changes? – 15 mins
- 6) Next Steps/Homework – 10 mins

First GoToMeeting? Do a quick system check: <https://link.gotomeeting.com/system-check>

Phase II Technical Subgroup Roster:

Jeff Schoenecker/Craig Turner, Dakota Electric	Robert Jagusch, MMUA	Patrick Dalton/John Harlander/Alan Urban, Xcel Energy
Lise Trudeau, Dept of Commerce	Kevin McLean, MN Power	Natalie McIntire/TBD, Wind on the Wires
Mike McCarty/Katie Bell, EFCA	Kristi Robinson, MREA	John Dunlop/Chris Jarosch, MNSEIA
Brian Lydic/Sky Stanfield/Laura Hannah – Joint Movants	Dean Pawlowski, Otter Tail Power	Commissioner Matt Schuerger; Michelle Rosier; Cezar Panait
Tam Kemabonta/Professor Mahmoud Kabalan, St. Thomas Affiliation		Technical Assistance*: Michael Coddington and Michael Ingram, National Renewable Energy Laboratory Tom Key, Jens Boemer, Nadav Enbar; Electric Power Research Institute Possible DOE Solar Energy Innovator Fellow

\*Technical assistance is not a participant or party to the docket and does not advocate for specific outcomes in the proceeding. The role of technical assistance is to support Commission staff in the process for these proceedings, and to provide an objective source of information or data, as requested, by Commission staff to understand areas of disagreement amongst participants.

Draft Meeting Topics Proposal:

<u>Date</u>	<u>Topic</u>
3/23/18	Meeting 1 Scope/Overview** (Walk-through with explanations: Red-lined TIIR; List of topics in scope of TSMs; Definitions
4/13/18	Meeting 2 Performance Categories**, Response to abnormal conditions; MISO Bulk Power System
5/18/18	Meeting 3 Reactive Power and Voltage/Power Control Performance**; Protection Requirements
6/1/18	Full DGWG Meeting Technical Subgroup update; Phase I Update/Next Steps
6/8/18	Meeting 4 Energy Storage**; Non-Export and Inadvertent Export**
7/20/18	Meeting 5 Interoperability** (Monitor and Control Criteria); Metering**; cyber security
8/10/18	Meeting 6 Test and Verification**; Witness Test Protocol
9/14/18	Meeting 7 References; Definitions*; 1-line diagram requirements; Agreements*
9/21/18	Full DGWG Meeting 2