**DMTF**

**April 13, 2017 Initial Meeting to discuss MOD-026 & MOD-027 & dynamic modeling**

Chair – Chris Weldie (Oncor)/Juan Santos – Garland

Vice Chair – Aruna Ranaweera (EON)

Overview of the task force scope – Fred Haung (ERCOT)

This group’s focus is on the models – need a process to manage the modeling process. Task force will not address specific models or studies. This task force reports to DWG. How will an update be provided to DWG since they only meet quarterly?

The task force will create a list of action items with volunteers to work on those and provide updates to the group. Scope will be kept at a high level and then create detailed action items.

Scope:

* **Process for submitting, reviewing and maintaining dynamic models:**

*MOD-026/MOD-027 RARF model process review*

(MOD standards applies to GO/TPs – not ERCOT, ERCOT gets the dynamic models through the RARF). ERCOT concerned REs providing models to TP and ERCOT. They need to be consistent models. Model must be vetted by TP; ERCOT has received inconsistent model data between what was submitted in RARF vs. what was provided to TP. ERCOT spends time trying to figure out which model is the right one so establishing a process will help with consistency.

Two types of RARFs: planning stage RARF, commissioning stage RARF. For planning RARF just providing generic info. The commissioning RARF more detailed. MOD-026/MOD-027 model must be updated every 5 – 10 years. It is up to RE to update RARF and provide the latest version

* **Acceptable/Obsolete model list development**
  + *Review NERC/WECC other regions list*
  + WECC developed a list of acceptable models. Should ERCOT come up with an acceptable list/list of obsolete models? Currently, ERCOT just accepts models and uses them.
* **Specialized dynamic models – EMTP (PSCAD) model**

*RARF PSCAD.*

*Formalize model specification (guideline)*

For new projects, ERCOT will ask for PSCAD models all the time for SSR, for areas with system stress. How to manage those models in the RARF and are they available among TPs. OEMs may object to having their PSCAD models. ERCOT has no process now for sharing with TSPs and they need the models.

* T**he requirement and limitation of User-Defined dynamic model**

WECC process

Generic/User Defined models (Black Box)

PSSE issue. Older version will not be compatible for new version of PSSE. ERCOT had to request updated PSSE models – took 8 months. Costly to get an updated model. In ERCOT they have more than 100 user defined models. WECC example (they have a list of acceptable models).ERCOT gave the example of wind GO giving PSCAD model that didn’t have voltage regulation modeled.

Group will have 10 days to review the draft scope document. We will finalize the scope at the next meeting. Brief discussion of possible hiring a consultant to assist the task force depending upon the amount of work.

Next meeting date? May 9th possible – await confirmation

Jennie Weatherill volunteered for MOD-026/MOD-027 RARF process review task assignment with CenterPoint.

* Process for submitting, reviewing, and maintaining dynamic models
  + MOD-26, 27, RARF model process review (ERCOT, Jun Li CNP, Jennie E.On)
* Acceptable/Obsolete model list development
  + Review NERC/WECC/Other regions list (Chris, Oncor)
* Specialized dynamic models - EMTP (PSCAD) model
  + RARF PSCAD (Juan, GPL)
  + Formalize model specification (guideline)
* The requirement and limitation of User-Defined dynamic models
  + WECC process (Seyi, CPS)
  + User Defined models (Black Box):