**DMTF Minutes**

**Sept 11, 2017**

**Attendance:**

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| In Person: |  |
| **Name** | **Company** |
| Aruna Ranaweera | E.ON |
| Joe J Trevino Jr | CPS Energy |
| Jun Li | CNP |
| Cole Dietert | LCRA TSC |
| Brad Woods | TRE |
| Gavin Bone | CPS Energy |
| Cody Phipps | WETT |
| Muhammad Khan | ERCOT |
| Shun-Hsien(Fred) Huang | ERCOT |
| Christina Minchew | WETT |
| Lauri White | AEP |
| Jonathan Rose | ERCOT |

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| Webex: |  |
| **Name** | **Company** |
| Dwight Beckmann | Brazos |
| Dylan - LCRA TSC | LCRA |
| Blake Gross | AEP |
| Randy\_CPN | Calpine |
| Ransome | LCRA |
| Esteban Santos | DNVGL |
| Satish Natti | DNVGL |
| Samantha Indalecio | AEP |
| Lauri | AEP |
| invenergy | Invenergy |
| Tim Cook (CTT) | CTT |
| Jennie Weatherill - E.ON | EON |
| Chris Matthes AEP | AEP |
| Casey Petty | Centerpoint |
| Reza | DNVGL |
| yunzhi cheng | ERCOT |
| David Johnson | IVG |
| Christopher Weldy (Oncor) | Oncor |

Minutes of the August 14 meeting approved as posted.

**ROS update:** ROS approved Christina Minchew as Chair in the Sept meeting.

Fred/ERCOT: We will finalize the scope and submit to ROS.

Brad/TRE: NERC is working on model guideline documents for GO’s and TSP’s. The documents are posted here: <http://www.nerc.com/comm/Pages/Reliability-and-Security-Guidelines.aspx>

Links to NERC’s Power Plant Modeling and Verification Task Force reliability guideline **DRAFT**’s are posted here. These will be moved to the above location once finalized:

<http://www.nerc.com/comm/PC/Power%20Plant%20Modeling%20and%20Verification%20Task%20Force/Reliability_Guideline_-_PPMV_for_Synchronous_Machines_-_2017-07-31.docx>

<http://www.nerc.com/comm/PC/Power%20Plant%20Modeling%20and%20Verification%20Task%20Force/Reliability_Guideline_-_PPMV_for_Inverter-Based_Resources_-_2017-07-28.docx>

Chapter 8 of the PPMVT for Synchronous Machines document has a lot of useful information that can be used even now.

**Model Validation**:

LCRA and CPS TSP’s will share model validation reports based on generator testing. This is targeted for the next meeting.

Validating the model requires validating all parts of the model.

MOD 26/27 places the responsibility on the GO to show that the model test results match with simulation results. It is not the responsibility of the TO.

**Dynamics Template**:

Jonathan Rose made a presentation on the draft dynamic template that was tried out with volunteer GO’s. Response was very positive. ERCOT is soliciting additional feedback from TSP’s and GO’s on this proposal. Purpose is to effectively track the data exchange which is currently unstructured compared to the rest of the RARF. Muhammad Khan sent the template to the DMTF distribution on 09/15/17. Eventually, the RE will be attaching the completed template in the ‘Dynamics Data’ tab of the RARF. The library and DLL files are needed in addition to the template especially for IRR’s, so they will have to attach the PSS/e model too along with the template. ERCOT will insert the correct bus numbers in the template and run it to generate the dyr file.

* **Please provide feedback before the October DMTF**

We will discuss next week organizing a workshop to go over the the template and get more feedback.

Fred: Mod 26/27 require GO’s confirm once every 10 years if the model has changed. Requirement R3 has to be followed if the model has changed.

RARF guideline 6.8.2 require RE to inform ERCOT within 10 bd’s of known changes to RARF data which include models. Should RARF guidelines to be updated to match with MOD 26/27 requirements?

**UDM’s vs Generic Models (GM’s):**

When PSS/e updates to a new version, the UDM’s may need to be updated. ERCOT would like to check this with UDM’s they have, but not sure what exactly has to be checked.

Can ERCOT provide a mock dynamics case for RE’s to upload the dyr file and check?

UDM’s always have more details than a generic model.

NERC has a list of acceptable models. ERCOT’s current focus is on unacceptable list.

We can send a survey to all turbine manufacturers again for obtaining their input.

We will discuss this more in the next meeting to be reported to the DWG.

**DWG Manual:**

Plan is to send the DWG manual for ROS approval by the end of the year. It will list models ERCOT has determined to be unacceptable considering NERC and other recommendations.

**PSCAD models**:

* Some regions in ERCOT need PSCAD model for stability assessments.
* Can DWG do PSCAD model review?
* Some manufacturers request an NDA even from ERCOT to submit their model to ERCOT. This is a problem. This should be made the responsibility of the generator owner. ERCOT protocol revision may be the way to address this.

**Next meeting: October 9th**

**New/Open Action Items**:

* Aruna will get MHRC (developer of PSCAD) feedback on the ERCOT PSCAD specifications document.
* Chris Weldy will prepare a PSS/e model validation document
* LCRA & CPS to share their process and experience in regards to MOD-026/027 Validation Process
* ERCOT to develop a model testing standard for UDM
* Christina/TF to make a list of pros and cons for 3 scenarios:
  + Generic Models only
  + Allow UDM OR Generic to RE’s preference
  + Hybrid – Generic AND UDM
* TF to create an Unacceptable model list
* TF to prepare feedback to pass on to DWG at their November meeting
* TF to create list of survey questions for manufacturers
* ERCOT/TF to revise protocol language to require PSCAD models in RARF

**Closed Action Items**: