**DMTF Minutes**

**May 09, 2017**

**Attendance:** Attached below.

**Australia Blackout** (Cole Dietert/LCRA ):

ERCOT: Australia Blackout was not a typical voltage ride through issue, rather several voltage dips happening within a few minutes. It appears some wind farms didn’t ride through the multiple events as expected. Following this, ERCOT sent an RFI in February 2017 to all RE’s in ERCOT. ERCOT is compiling the responses, and will present a report in near future. Fred will provide a status update on this to DMTF.

**Process for submitting, reviewing and maintaining dynamic models** (Jun Li/CNP):

ERCOT: MOD 27 & 28 apply to GO and TSP. ERCOT does not involve.

Jun Li: TSP gets the numerical models, do the simulations and review and report results. Questions:

* Do they work the same way in the field?
* Do RE’s check if the models are valid, obsolete etc?
* Are GO’s providing field tested data?
* How do we improve the process?
* How to screen models for new or obsolete?

**Austin Energy submits results to ERCOT & TSP Per MOD 26/27. Models should be submitted to the TSP.**

**ERCOT: Lots of communication needed to make sure the stability model is in the RARF. This is a problem for ERCOT. Models are commonly provided in pdf format, including PSS/e data sheet. This requires a lot of manual processing to transfer data into the dynamics cases (creating the potential for data errors) and is burdensome to review for potential data updates. ERCOT proposes developing dynamic model templates to be used for submitting dynamic model data.**

**E.ON: Most GO’s don’t have PSS/e in-house, and therefore will not be able to complete a separate table of data as displayed in PSS/e. Submitting the PSS/e dyre file as they do now would be a better option for GO’s.**

**Oncor/EON: Submission of the stability model used in the FIS by the TSP who performed the study to ERCOT will ensure that ERCOT has the same model used in the FIS. This will also ensure data consistency.**

**Acceptable/Obsolete model list development** (Chris Weldy/ Oncor):

 DWG does not accept ‘black-box’ models in system wide studies. There are number of non WECC approved/NERC deprecated models in ERCOT cases:

* 114 Generator models
* 110 Governor models
* 3 Exciter models

PSS/e is still including some models deprecated by NERC & IEEE. We should request PTI/PSS/e explanation of this. Very reputable manufacturers are still using some of the deprecated models such as “genroe”

Black-box models are acceptable if they come with block diagrams showing all functionalities.

TRE: Cases Texas RE provides to NERC cannot have black-box models which were provided to ERCOT without block diagrams and documentation.  This is consistent with the requirements in section 3.1.4 of the DWG manual for user-written dynamic models.

Action Items:

1. Request explanation from PTI/PSS/e regarding NERC/IEEE deprecated models in PSS/e – Juan Santos/GPL
2. Provide links to NERC presentations on “Unacceptable” models- Brad Woods/TRE
3. Replacement models for deprecated models - Chris Weldy/ Oncor

**Specialized dynamic models – EMTP (PSCAD) model** (Juan Santos/GPL)**:**

Proposal: ERCOT issues an RFP and selects a consultant. All models are sent to the consultant for review. NDA’s may have to be signed by ERCOT & TSP’s with generator/turbine manufacturers.

ERCOT experience is that, NDA’s have to be signed even for black-box models.

ERCOT: Plant level control model is an important part of the PSCAD model. It is necessary to have a document for ‘PSCAD Model Specifications’.

**User Defined models** (Oluwaseyi Olatujoye/CPS):

* Main issue: They have to be updated whenever a PSS/e version upgrade is made. This is an extra burden on GO’s.
* GO’s should work with manufacturers to get Used Defined models converted to PSS/e
* WECC has found User Defined models as very problematic

**Action Items**:

1. Request explanation from PTI/PSS/e regarding NERC/IEEE deprecated models in PSS/e – Juan Santos/GPL
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3. Replacement models for deprecated models - Chris Weldy/ Oncor

**Attendance:**

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| **Web Participation** |  |  |
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|  |  |  |  |
| **In person** |  |  |  |
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