**DMTF Minutes**

**Oct 09, 2017**

**Attendance:** Attached below.

Minutes of the Sept 11 meeting approved as posted.

**LCRA TSC Dynamics Model Usability Test (Cole Dietert/LCRA TSC)**

* Contingencies run: P1 & P7
* Check if there are NERC unacceptable models. If so inform the generator.
* LCRA website give links to NERC unacceptable models list
* LCRA will also send the list to generators

**Model Validation Template (Jonathan/ERCOT)**

* Template was sent to the DMTF distribution by Jonathan after last meeting. Any feedback? Volunteer Task Force feedback was positive.
* This was forwarded to Wind Coalition also by Aruna. Haven’t received any responses.
* ERCOT will start rolling this out to new generators to try out in hope of getting feedback.
* A visual guide on how to use it would be very useful.
* **DMTF agreed a workshop should be set up in early 2018 to explain generators where we are heading and get more feedback.**
* Chris/Oncor will start calling all his generators to get a feel for dates for the workshop.
* Laura/AEP: Try to schedule close to another meeting for generators.
* Announce the workshop in ROS.
* RARF owned by ERCOT RDWG (Resource Data WG) Aruna. ERCOT will inform them about the plans.
* Inform the DWG in the next meeting.
* ERCOT will ask new generators to try the new template meantime.
* Do we need the template data completed eventually by existing units too?

**Model review/validation (Mohammad/ERCOT)**:

* Quarterly model review at the DWG. Spreadsheet that is used at the DWG for model review was presented for discussion. Intent is to inform ERCOT what was updated per MOD 26/27.
* Generators usually update dynamic models per MOD 26/27. ERCOT will be informed by the TSP what models were updated in the previous quarter. ERCOT QSA (Quarterly Stability Assessment) will use the model that was used in the FIS by the TSP.
* RARF’s are posted or TSP review. How would the TSP know if the new RARF includes a new dynamic model? Last date of model change is entered in the RARF. TSP does the model review and add to the spreadsheet for ERCOT information.
* How do we track this? RARF updated-🡪 Did the TSP review the model per MOD 26/27? May need an additional column to the spreadsheet. Remove current column G and add a ‘Model Verified’ column.
* TSP to complete column H, Date MOD 26/27 verification of model usability sent to RE. Note TSP is required to respond to RE within 90 days per MOD 26/27.
* Column I: Did ERCOT receive an updated model ?
* Add a top row showing who is responsible for completing the column.

**UDM Review & Validation Document (Jonathan/John/ERCOT)**

* Chris Weldy sent the document for review. Fred Huang sent his review comments.
* Sometimes the model doesn’t have the capability generator claims it has.
* Do PSSe/PTI guidelines listing key words that should not be used by UDM’s? In the past PSS/e dynamic simulations have crashed at run stage because the UDM had a routine with the same name that a routine used by the PSS/e FORTRAN engine. Can PTI provide a UDM guide?
* Can MOD-32 tool be used for model validation?
* What is the next step for this document? This can be a guideline that will be sent to generator manufacturers and developers. Send to DWG at the Oct 7th meeting and get feedback. ERCOT will do this.
* ERCOT Model Testing Standard – This is still a R&D topic
* Not accepting UDM’s is not the right solution. They should come with dll’s and library files.
* Brad/TRE: TSP should not limit itself to UDM’s, they can ask generic models anytime.
* If the UDM represents the generator accurately and works well, there is no issue.
* Can manufacturers provide the UDM in dll format instead of lib format?

Need to create a validation checklist that can be used as a guideline by generators. Subcommittee to be set up under DMTF. Christina/WETT volunteered. Need more TSP volunteers.

**Brad/TRE: NERC Acceptable Models List:**

* **Orange** highlights; Use of these models is **Prohibited**
* **Yellow** highlights: Use of these models is **Not recommended**

**Model Validation Template Workshop:**

* Jonathan to prepare a draft plan for the workshop and circulate for review
* Include demo of filing the template
* Check with manufacturers if they have generic models
* Check how many generators have signed up for DMTF

**DWG Manual:**

* Send any feedback to Cole Dietert before next meeting to save time.

**PSCAD Models:**

* PSCAD models should be used for SSR studies and studies on weak grids
* ERCOT experience is that when an RE submits an interconnection request, they have about 70% of the models
* Going forward, all new generators will be required to provide PSCAD models

**Next Meeting:**

* Model requirement testing standards

Attendance (10/09/17):

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| **WebEx Participants** |
|  | **Name** |  | **Email** |
| 1 | ERCOT | ERCOT | jschmall@ercot.com |
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| 14 | Ravi Teja Reddy Beeravalli | First Solar | ravi.beeravalli@firstsolar.com |
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| **In-person Attendance** |
| 1 | Aruna Ranaweera | EON |  |
| 2 | Cole Dietert | LCRA-TSC |  |
| 3 | Brad Woods | TRE |  |
| 4 | Oluwaseyi Olatujoye | CPS Energy |  |
| 5 | Chris Weldy | Oncor |  |
| 6 | Muhammad Khan | ERCOT |  |
| 7 | Christina Minchew | WETT |  |
| 8 | Jun Li | CNP |  |
| 9 | Cody Phipps | WETT |  |
| 10 | Ransome Egunjobi | LCRA |  |
| 11 | Lauri White | AEP |  |
| 12 | John Schmall | ERCOT |  |
| 13 | Jonathan Rose | ERCOT |  |