**Meeting Minutes**

**ERCOT Planning Geomagnetic Disturbance Task Force**

**November 03, 2020, 9:30 am – 12:30 pm, WebEx only**

**Review of minutes from October 06, 2020 PGDTF meeting**

* No additional comments.

**Frequency to develop GIC models**

* Based on the feedback from the Task Force there were no additional end users of the GIC models other than for TPL-007 purposes.
* Last GIC model build took 4 months to complete.
* Leslie Williams (ERCOT):
  + We need to engage with other working groups such as SSWG or NDSWG and possibly maintain some of the GIC data at their level.
  + If we were to develop the models every 20 months (similar to Gen 1 and 2) then we need to make the decision soon. Starting with SSWG update 2 cases in March 2021.
  + SSWG is already developing too many cases a year and it will be difficult to add more
* Larisa Loyferman (Centerpoint): We need to develop the models more than the standard requires:
  + To maintain the knowledge and skill set necessary to perform the GIC model building and produce good models.
  + To maintain an updated model to perform internal GMDVA studies, especially if ERCOT recommended CAPs
  + Suggested to develop one case a year instead of two
* Aster Amahatsion (AEP): Recommended to build the models as the standard requires:
  + GIC flows are low within ERCOT system
  + Performing GMD vulnerability assessment also requires calculating GIC flows as well as a updating the list of equipment vulnerable to trip during GMD events for every case build.
* Brian Hithersay (BEPC): Suggested to set up a workshop a few months prior to the next GIC model building effort for the concerns about the experience lost.
* Ping Yan (ERCOT): GMDVA efforts takes around 30 months to finish. (GIC flows, Transformer Thermal impact assessment, vulnerability assessments, and CAPs)

**GMD Vulnerability Assessment activities**

Amjed Kandah (Oncor)recommended disabling LTCs and generator voltage change to take into account the initial system dip. Since many LTCs are not under automatic control and voltage regulator setting does not get changed until the TSP requests the plant change the setting.  Which typically requires minutes to occur.

Ping (ERCOT) will look into this.

* **Possibility of recommending a Corrective Action Plan**

ERCOT is still working with the TSP to resolve the voltage violation.

**Other Business**

* **2021 PGDTF Schedule**

PGDTF will schedule meetings every other month in 2021 starting in January. Chu Liang (WETT) will work with other working groups to avoid conflictions

* **2021 PGDTF Leadership Nominations**

No one volunteered during the meeting, PGDTF Chair will send an email to the Task force asking for volunteers

* **Market Notice for Supplemental GMDVA Equipment Outages**

The market notice was sent out on October 9th.

Amjed Kandah (Oncor) is encountering the GICHarm tool to crash when trying convert a PSSE \*.raw into OpenDSS file and an error message about GIC file inconsistencies for transformers.

Aster Amahatsion (AEP) mentioned that EPRI is releasing an update to the tool by the end of November.

Eric Meier (ERCOT) mentioned that he is not observing those issues.

**Future Meetings**

* December 01, 2020

**Rollcall November 3rd, 2020**

|  |  |  |  |
| --- | --- | --- | --- |
| **Attendee** | **Company** | **Attendee** | **Company** |
| Amjed Kandah | ONCOR | Chu Liang | WETT |
| Bob Wittermeyer | BEPC | Aster Amahatsion | AEP |
| Ping Yan | ERCOT | Eric Meier | ERCOT |
| Leslie William | ERCOT | Doug Evans | STEC |
| Phil Bracy | ERCOT | Christian Danielson | EPE/REC |
| Jianhui Zhang | AEN | Ramya Nagarajan | Sharyland |
| Jun Li | CenterPoint | Walter Reid | APA |
| Omer Siddiqui | CPS | Larisa Loyferman | CenterPoint |
| Takayuki Ito | AEP | Kim Rainwater | LCRA |
| Ash Chakravarthy | BMCD | Charles Dewitt |  |
| Cole Dietert | EPE/LPL | Omar Urquidez | BMCD |
| Charles Gibune | DNV GL | Chenyan Guo | Lone Star |
| Brian Hithersay | BEPC |  |  |