**IBRTF Report To ROS**

**March 2023**

**Chair: Mohammad Albaijat, Vice-Chair: Julia Matevosyan**

**IBRTF last met on February 10th, 2023 (Webex)**

**It was only open meeting session.**

**Discussion Items:**

**Open meeting IBRTF Discussion**

**IBR Ride-Through Feedback and Comments on NOGRR245**

**Presented by Stephen Solis (ERCOT)**

**Parameters Verification Reports**

**Presented by Jonathan Rose (ERCOT)**

* Purpose:
  + To confirm dynamic model matches field settings
  + To expand the NERC MOD-026/027 efforts
    - Requires confirmation of PROTECTION MODELS (voltage, frequency, V/Hz)
    - Requests numerical confirmation of key control gains
* Implemented with PGRR-085 (effective 3/1/2021)
* Planning Guide 5.5 and 6.2
* Required:
  + 30 days following and again 1-2 years after Part 3 approval
  + 30 days following a setting change at the plant
  + Every 10 years
  + By 3/1/2023 for existing plants

**January 23 Event Brief Update**

**Presented by Patrick Gravois (ERCOT)**

* + On January 23, 2023, @ 12:19 PM CST, Phase-A-to-ground fault occurred on 138 kV line in West Texas
  + Fault cleared normally in 3 cycles
  + Preliminary analysis shows approximate non-consequential loss of 298 MW of solar generation from 8 different facilities
  + Aggregate MW loss includes facilities that did not return to pre-disturbance output within 1 second
  + 7 of 8 facilities involved in Odessa events
  + ~208 MW of load reduction occurred at four different LFL sites immediately following fault
  + System frequency dropped to 59.955 Hz and recovered in 6 seconds
  + PMU/ relay event data requested from 25 surrounding solar facilities; 20 submitted PMU data
  + Wind/BESS reduction insignificant
  + RFIs sent to 8 facilities with due date of Feb. 24
  + Several facilities involved in Odessa events did not see voltage excursions large enough to test mitigation actions; others initially show an improvement in performance (less inverter tripping)

**Industry Update**

**Presented by Julia Matevosyan (ESIG, IBRTF vice-chair)**

* FERC NOPR E-2 to direct NERC to develop new or modified Reliability Standards that address four reliability gaps related to IBRs. Now the comment period is over and 25+ comments were submitted around half of the comments **are in support of adequate consideration of IEEE 2800**
* NERC Inverter-Based Resource Performance Subcommittee’s (IRPS) EMT Guideline Volume 1 is out for comments, the comments are due by Feb 20th but preferred asap, since IRPS has very short timeline to turn comments around and get it back to NERC Reliability and Security Technical Committee for approval during their March meeting.
* A G-PST/ESIG webinar is coming up on 2/21 on Grid Forming Specifications developed by the DOE-funded project UNIFI
* ESIG Technical Workshop is coming up in Spring March 27-30 in Tucson, with two sessions relevant for this stakeholder group.