Incorporating PMU Requirements into Manual – M01 & M14D

Nancy Huang

SOS Meeting
March 26, 2014
The DOE Grant project will provide a highly reliable data collection network.

SynchroPhasor Measurement Devices at 82 Substations

Production Grade Data System to Support 150+ Monitored Substations
Challenges & Benefits:

- No Generator Buses with PMUs
- For generator model development and verifications, we need high resolution data (SynchroPhasor data) at generator buses
  - Potential On-line model testing instead of traditional off-line testing
  - Improve the accuracy of the generator model
  - Forthcoming NERC standards
- Generation Primary Frequency (Governing) and AGC Response Performance Monitoring
- Oscillation Monitoring and Detection
• Problem/Opportunity Statement presented and approved
  • Seeking to make a policy change to the ISA and manuals to add explicit requirement of installing SynchroPhasor Measurement Units (“PMU”) at new Generation Interconnections.

1/22/2013
• Final report reviewed
  • Seven meetings
  • Education on PMU-related issues covering eleven topics
  • Two packages proposed

• PJM MC endorsed the proposed Tariff language on 6/27/2013
• PJM submitted the filing to FERC on 10/28/2013
• FERC accepted PJM’s compliance filing on 2/27/2014
- **Impacted manual:**
  - M01: Control center and data exchange requirement
    Changes are in section 1.3, 2.2 & 3.3
  - M14D: Generator operational requirement
    Add a new section 4.3