### **NASPI Engineering Analysis Task Team**

Shaun Murphy

PJM Interconnection, Applied Innovation Dept.











#### **EATT Mission Statement**

- Facilitate the development, testing, and validation of engineering applications that use synchronized measurements systems.
- Develop recommended practices and guidelines for PMU placement, including applicationspecific recommendations.
- Regularly update Reliability Councils on the state of synchrophasor technology and its application.
- Assist in the deployment and utilization of synchronized wide-area measurement applications.
- Formulate and guide recommended R&D activities related to the advancement of wide-area synchronized measurement systems and their applications.

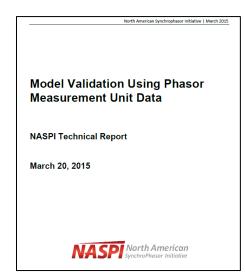


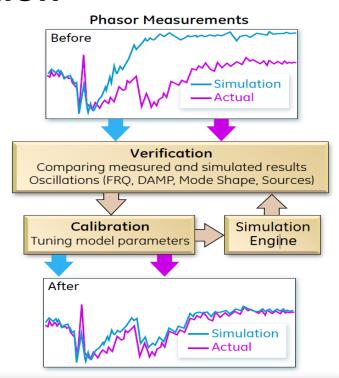




#### **Model Validation and Calibration**













## **Model Validation and Calibration**

NERC Standards	Validation Focus	Validation Method	Entities	Interval
MOD-026-1	Validate generator voltage and reactive power response	Staged test (for GO) and POI disturbance-based model validation (for TP)	TP, GO	Every 10 year or significant change to the plant that modify its response capability
MOD-027-1	Validate generator frequency and active power response	Staged test (for GO) and POI disturbance-based model validation (for TP)	TP, GO	Every 10 year or significant change to the plant that modify its response capability
MOD-032-1	Interconnected transmission system model	NA	PC, TP, BA, G LSE, RP, TO, T	Every 13 calendar months
MOD-033-1	Interconnected transmission system model	disturbance based model validation (for PC)	PC, RC, T	O Every 24 calendar months







# Thank You!

shaun **dot** murphy **at** pjm **dot** com





