Synchronized Measurement Subcommittee Update

Tim Fritch, TVA, SMS Vice Chairman
NASPI Work Group Meeting
April 2018
• Reliability Assessment: Interconnection-Wide Oscillation Analysis

• Primer on PMUs and State Estimation

• Compliance Implementation Guidance: Cyber Designation for Synchrophasor Systems
• Inter-area mode determination (ringdown analysis)
   Mode frequencies, damping ratios, mode shapes
   Locational aspects, transfer path considerations

• Benchmarking with models
For engineers and system operators

Focus on:

- Challenges with Traditional State Estimation
- Benefits of utilizing PMU data for SE
- Comparison of Traditional SE with LSE
- Challenges and Benefits of LSE
- Future uses of LSE
Implementation Guidance: CIP Designation for Synchrophasor Systems

- CIP designation for synchrophasor systems and components
- Example scenarios of applications and how that impacts cyber asset designation

Illustration purposes only
Questions