

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

SMS Update

NERC Synchronized Measurement Subcommittee (SMS)

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NASPI Meeting

October 15, 2015

RELIABILITY | ACCOUNTABILITY



- Approved by PC – December 2012
- Dormant until recently
- Formation Announcement – July 2
- First Meeting – September 2-3 in Golden, CO (NREL)
- Next Meeting – November 3-5 in San Diego, CA (SDG&E)
- Roster – 90+ (50/50 split vendors/operating entities)
- First meeting – 20+ in-person, 25+ on phone

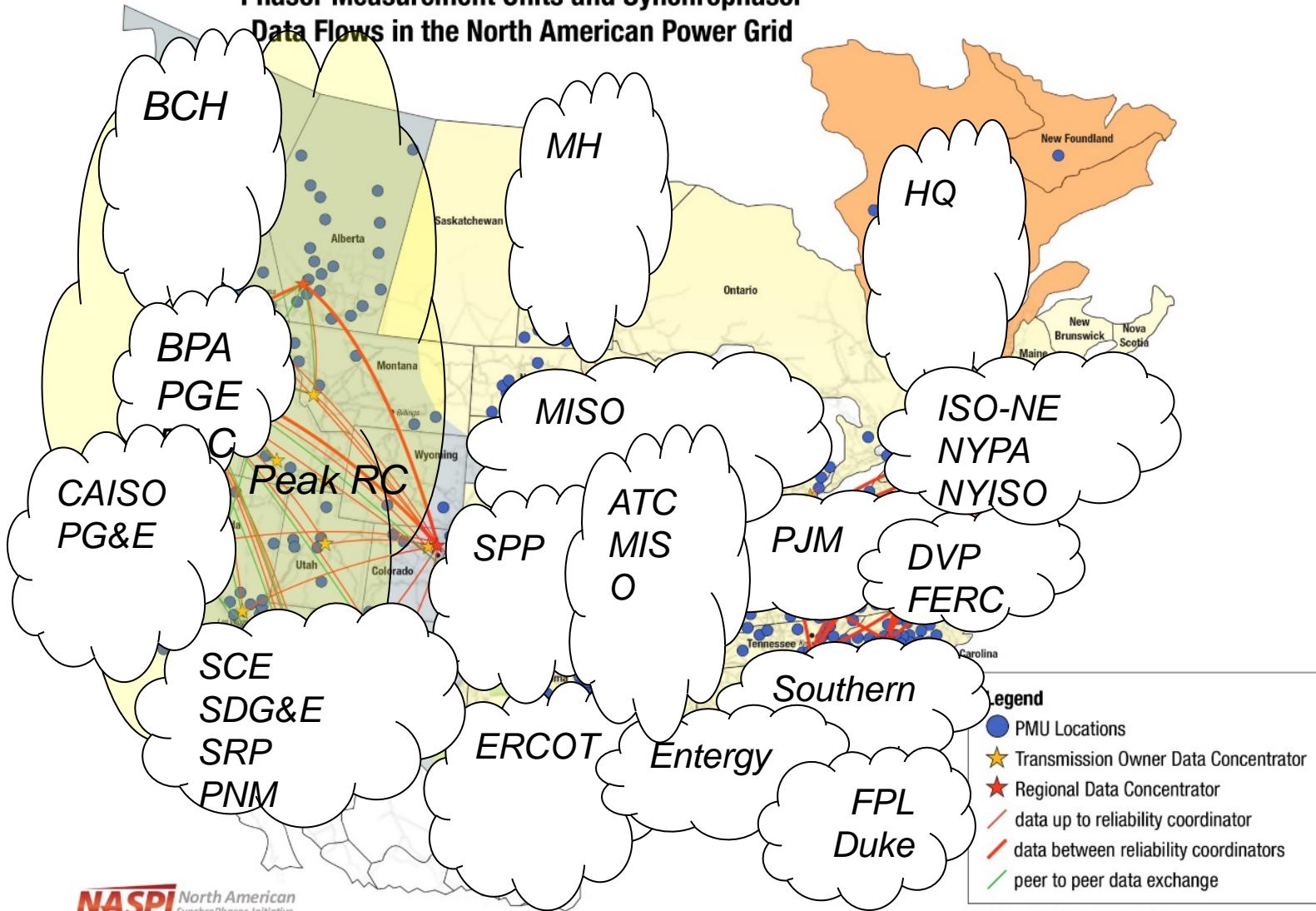
- Strong industry support for efforts underway!
 - NERC PC and OC very interested in SMS moving forward

- SMS brainstormed key tasks to tackle first and developed tentative timelines for those deliverables

#	Task	Frequency	Due Date
1	PMU Placement Guidelines	Once	Q2 2016
2	SW Outage Recommendation 27: Angular Separation	Once	Q2 2016
3	Utilizing PMUs for NERC Reliability Standards	Once	Q3 2016
4	Model Verification Using PMUs	Once	Q4 2016
5	Technical Workshop on PMU Utilization	Once	Q2 2016
6	PMUs for Cascading Outages	Once	Q2 2017
7	Monitoring IEEE C37.118 Certification Process	Ongoing	N/A
8	Monitor Operator Training Practices	Ongoing	N/A

- North American Synchrophasor Initiative (NASPI)
 - Driving light of technology advancement for synchronized technology
- WECC Joint Synchronized Information Subcommittee (JSIS)
 - High value application development for West, seek to build off JSIS efforts and share practices amongst interconnections
- IEEE/IEC
 - Coordinate with industry standards development and certification
- NERC Registered Entities
- Vendors, Consultants, Solution Providers
 - Bring together development expertise and utility members
- Other NERC Subcommittees (OC & PC)

Phasor Measurement Units and Synchrophasor Data Flows in the North American Power Grid



- Practitioner-focused:
 - Reliability Guidelines – share practices to bring value to operating entities
 - Act as SMEs for PMU technology within NERC
- Participation from operating entity SMEs requested (full coverage)
 - West – Eastern Side (WAPA, Excel, APS)
 - Midwest – AEP, ComEd, ITC, OG&E
 - Southeast – Duke Progress
 - Canada – Maritimes, Alberta, Sask Power
- Feel free to reach out to Ryan Quint (ryan.quint@nerc.net), SMS Staff Coordinator if interested or with any questions



Questions and Answers