

NYSRC Defensive Strategies Working Group

March 08, 2012

@NYSERDA

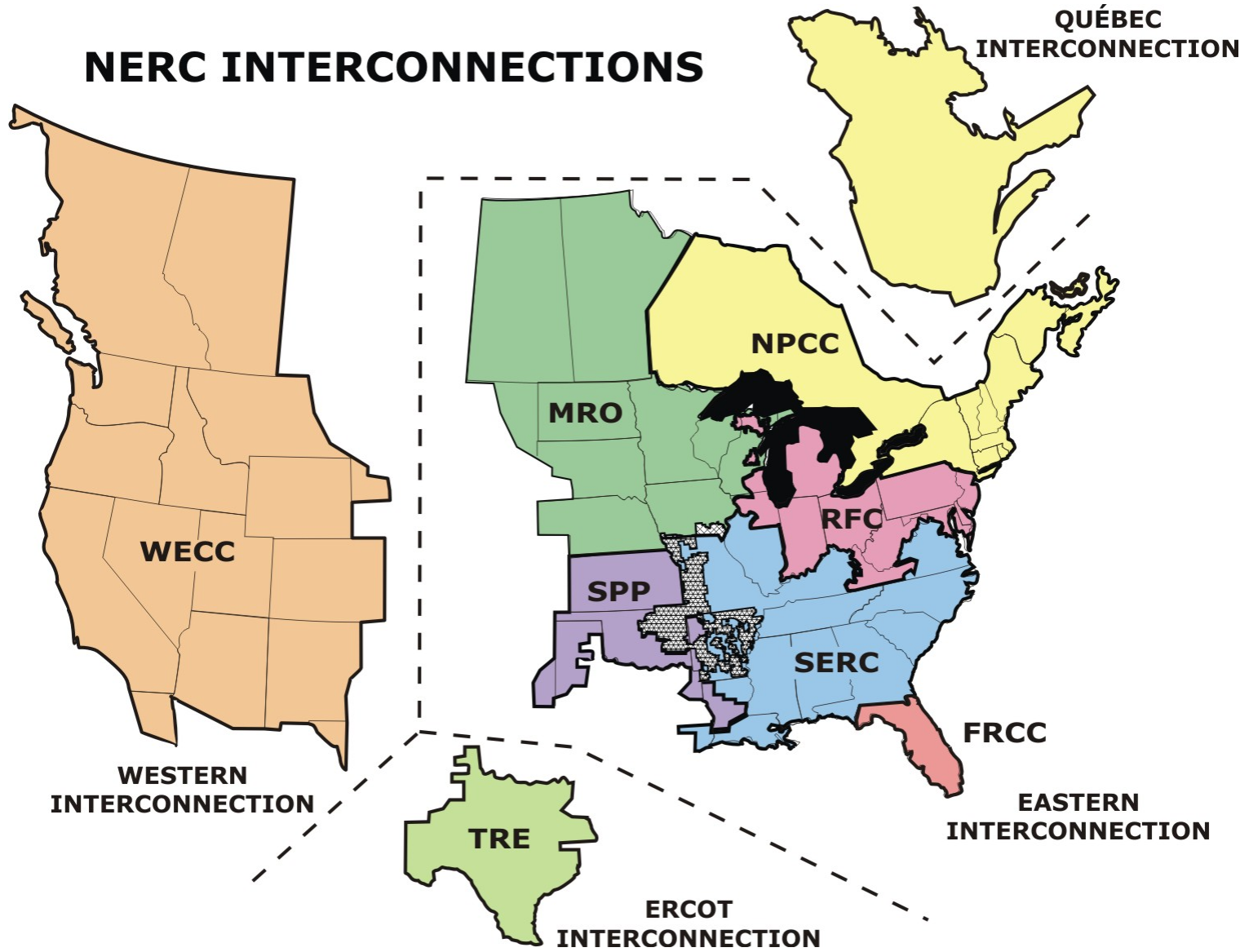
DSWG Agenda – 3/08/12

- **Opening Remarks (10:00)**
- **Presentation by Brookhaven National Labs**
- **NPCC Presentation**
 - **Blackout Study Task 5 performed by SS 38 Dynamics Working Group**
- **NYISO Controlled System Separation Study Presentation**
 - **Study Results Update**
 - **Plan and Schedule**
- **Discussion**

Events-NYSRC/NYISO/NPCC/DSWG

- **August 14 , 2003 Blackout**
- **DSWG** formed by NYSRC Executive Committee
 - Reps from TO's, NYISO, NPCC
 - Initial Controlled Separation Ideas by NYSRC EC members
- **NYISO and NPCC Blackout Studies Initiated**
- **Initial Blackout Reports Issued**
- **Vendor Presentations to DSWG – Schweitzer, GE, Siemens, ABB**
- **Controlled Separation Approach Proposed by EPRI**
 - At NYSERDA Meeting May 2009
 - Scope Refined with DSWG Input
- **NYISO Includes Study in DOE Grant Application – PMU Focus**
- **NPCC UFLS Study and Program Update**
- **NYISO RFP – EnerNex – Kickoff Feb 2011**
- **NPCC SS-38 Performs Task 5 Study**

NERC INTERCONNECTIONS



NPCC Task5/CSSS Comparison

NPCC Task 5

1. Entire NPCC Region
2. Sweeping Investigation
3. Identify Reliable Triggers
4. Several triggers/Relay Systems analyzed
5. Some triggers show promise but more testing needed - **CAUTION**
6. Light Load Case plus B/O Case
7. Work Complete – Report Issued

NYISO CSSS

1. NYS and surrounds
2. Detailed Invest w NY Focus
3. Develop Algorithms – Explore Feasibility in More Detail
4. Focus PMU based approach
5. Algorithms To Be Developed Focus on Differential Angles, Rates, Accelerations
6. Light and Heavy Load Cases
7. Work in Progress - 50% Complete