

**Operations Implementation  
Task Team  
Breakout Session Report**

**NASPI Workgroup Meeting**

**May 10, 2007**

**Terry Bilke, Midwest ISO  
David Hawkins, California ISO**

## *Team Scope*

- Deployment of and training and tools enabling operators, reliability coordinators and others engaged in operational aspects of grid reliability to effectively monitor and assess the real-time operations of the bulk power grid on a wide area basis.
- Tools include applications that utilize PMU data for state estimation and other real-time applications.

# *Key NASPI 2007 Deliverables*

## ➤ OI Team

- Develop prototype wide-area visualization tool
- Obtain user feedback from operations staff on visualization displays
- Develop visualization guidelines (posted on NASPI website)

## ➤ PI Team (where OI team can provide support)

- Baseline, gather statistics and report on phase angles and small signal stability performance
- Get familiarized with the tools & techniques to perform small signal stability analysis using PMU data. Identify dominant frequency modes and associated damping for system ambient conditions.

## *Breakout Session Review*

- **Update on team efforts (slides will be posted)**
- **Manu Parashar gave a demonstration of RTDMS an its significant new features**
  - **Flexible and very configurable**
  - **Daily reports on PMU and grid performance**
  - **Event capture and archive**
  - **Replay capabilities**
  - **Damping and oscillation detection**
  - **Waterfall plots**
  - **Information hub (ability to import messages and export to others' tools)**
  - **Takes advantage of C37.118**

# *Areas Where We Need WG Support*

- Grow the infrastructure
- Provide input on taxonomy (new ideas on future capability)
- Complete vendor / researcher template
- Provide information messages to RTDMS hub
- Training information
  - Cues and suggested actions
  - Events
  - Engineer
- Participants from other Interconnections