

# North American SynchroPhasor Initiative (NASPI)

## Performance and Standards Task Team Meeting

**May 30, 2008**

8:00am-9:30am PT

By Teleconference and Live Meeting

## Agenda

1. (5 min) Introductions / Roll Call – All
2. (10 minutes) Update PES 2008 GM Panel Session - International experience with PMUs **H. Huang**
3. (10 minutes) June 2008 PSTT meeting Agenda items and Task Team Action Items **All**
4. (60 minutes) Review the “PSTT Activities for 2008 Goals” **All**
  - Objectives: Identify Deliverables, Timeline / Schedule for 2008, Resources

| 2008 Goals   | Task Leaders  |
|--|---|
| <b>1. Define standard PMU</b>  | <b>Ken Martin</b> , Sakis Meliopoulos, Harish Mehta<br><b>Ken to provide update</b>   |
| <b>2. Requirements to guide PMU deployment and system architecture needs, locally and regionally</b> |   |
| a) System and device requirements for combined applications  | <b>Yi Hu</b> , Jim Hackett<br><b>Review draft proposal</b>  |
| b) Phasor Tools Listing - Requirements and specifications for phasor tools                           | <b>H. Huang</b> , J. Hackett, E. Martinez, T. Weekes., Sushil Cherian; Krish Narendra; Robert Folkes<br><b>Update on possibility of a web based method for users and developers to list phasor tools</b>  |
| c) Guidelines for synchronization techniques - Accuracy and Availability                             | <b>Bill Dickerson</b> , J. Stenbakken, Alfredo Vaccaro, K. Narendra<br><b>Review latest update by Alfredo</b><br><b>Jay to comment or provide feedback to Alfredo</b>   |
| d) Requirements for hardware and firmware upgrades   | <b>S. Haveron</b> , J. Hackett, F. Galvan., E. Martinez, K. Narendra<br><b>Review draft proposal by Shane and his team</b>  |
| <b>3. Procedures for testing PMU at the commissioning level</b>                                      | <b>V. Madani</b> , T. Weekes., K. Martin, Mladen Kezunovic, Alfredo Vaccaro, K. Narendra  |
| <b>4. Standardizing PMU Configuration for IEC 61850 Applications</b>                                 | <b>Shane Haveron</b> , Roger King., Sushil Cherian<br><b>Vahid or Sushil send latest version to IEC 61850 for comments or suggestions</b><br><b>Review Actions plans developed by Shane and Sushil to move forward – Review list of development needs</b> |
| a) Implementation Agreements (Standards) for Interoperability of the Synchrophasor Values            |   |

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|--|---|
| b) Coordination with IEC Standards   | and proposal to how best achieve the desired outcome.<br>If everyone OK, Teresa to send to the entire PSTT for additional feedback  |
| <b>5. Expand guidelines for using devices with Integrated PMU Functionality</b>  | <b>D. Novosel</b> , J. Hackett, V. Madani, E. Martinez, Yi Hu<br>Krish to lead discussion of progress with his team consisting of Anurag, Damir, Jay, and Jerry               |
| <b>6. Issues with “Dynamic Phasors”</b><br>Jerry will work with Henry to distribute presentation and discussions on the use of Taylor Series for feedback from PSTT<br>Ultimately - Ken to consider the information the PRSC WG that will participate in updating the IEEE phasor standard   | <b>Henry Huang</b> , T. Weekes, J. Stenbakken, B. Kasztenny, M. Adamiak, K. Martin, Arun Phadke<br>Jerry to provide update and if any feedback received from the PSTT.        |
| <b>7. Standards &amp; requirements for Protection and Control Applications</b>   | <b>S. Haveron</b> , E. Martinez, K. Martin, J. Hackett, Virgilio Centeno, V. Madani, Yi Hu, S. Meliopoulos, Mohammad Zubair<br>Review proposal provided by Shane              |
| <b>8. Identify requirements for redundancy (part of architecture)</b>  |   |
| 9. Discussions with IEEE on COMTRADE file use with PMU – See notes from January 2008 conference call.<br>Feedback from PSRC indicates that COMTRADE standard defines only formats but not contents. An add-on configuration may be developed to satisfy the need when Comtrade is used for phasor measurements. Jim Hackett, as vice chair of PSRC WG H10, invites PSTT members to attend the next H10 meeting at Kansas City on May 13-14, 2008 or give Jim some feedback for discussion at the H10 meeting |   |
| 10. Define Functional requirements for PDC Hardware Input protocols, and protocols needed if in the future we want to go to the SE - Whether it is better to have a independent server or independent database etc. for future expansion, what data bases will match what PDCs   | Tony Weekes to provide update list of functional requirements based on collective thoughts from discussions with his team (Sushil Cherian, Robert Folkes, Yi Hu, Jim Hackett) |

5. Next Conference Call: June 27, 2008 Friday, 8:00am-9:00 am PT.

6. Adjourn

**Appendix A: Instructions for conference call participants:**

- **Local participants:** call 376-7411 and ask for the conference title "**PSTT**" or "**PRTT**".

- **Long-distance participants:** call 1-800-664-0771. When you hear the Octel voice mail system answer, please dial 0 and ask the Operator for the conference title "**PSTT**" or "**PRTT**".
- **International participants:** Please use one of the two ways: 1) call 509-376-7411 (will incur long distance charge to you) and ask for the conference title "**PSTT**" or "**PRTT**"; 2) let Teresa Carlon ((509) 375-3628, [teresa.carlon@pnl.gov](mailto:teresa.carlon@pnl.gov)) know in advance that you want to participate, and then Teresa will have PNNL Telephone Service personnel call you and connect you to the teleconference.

*(If you need assistance, please call PNNL Telephone Services at 509-375-6400)*

**Appendix B: Instructions for LiveMeeting:**

Teresa Carlon has invited you to attend a Live Meeting.

<https://www.livemeeting.com/cc/pnnl/join?id=DZKT3R&role=attend&pw=tzZ%292H%2Bjq>

Subject: PSTT Teleconference/Live Meeting  
Meeting URL: <https://www.livemeeting.com/cc/pnnl/join>  
Meeting ID: DZKT3R  
Meeting Key: tzZ)2H+jq  
Role: Attendee

Click to add to your Outlook calendar:

<https://www.livemeeting.com/cc/pnnl/meetingICS?id=DZKT3R&role=attend&pw=tzZ%292H%2Bjq&i=i.ics>

FIRST TIME USERS: To save time before the meeting, check your system to make sure it is compatible with Microsoft Office Live Meeting: <http://go.microsoft.com/fwlink/?linkid=52354>

This Live Meeting invitation is a personal invitation; it should not be forwarded.

For assistance, visit Live Meeting Help and Support:

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