

# **NASPI** *North American SynchroPhasor Initiative*

Control Room Solutions Task Team  
Monthly Meeting

July 27, 2021

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# Agenda

- Panel session on real time uses of synchrophasor data at the Spring 2022 NASPI meeting
- System Inertia Monitoring Ops Use Case development
- Update on Time-Synchronized Measurements Training
- Aloha

# Spring 2022 NASPI Panel Session

- Original plan to pull together a panel session for the Fall 2021 meeting to provide an update to the community on real time uses of synchrophasor data to support reliability/control room functions
- Several entities interested but would have more to share if we delayed until Spring 2022
- Panel session will have operations personnel presenting and commenting on how they are using the data
- The following have expressed an interest in participating on the panel session
  - AESO, CAISO, Dominion, Entergy, PJM, SPP, SRP.
  - Waiting for feedback from several others

# Spring 2022 NASPI Panel Session (cont'd)

Plan is to have all the panelists use the following rough agenda with the presentations lasting around 10 minutes.

- Quick company overview
- High level review of your synchrophasor system (number of PMUs, maps showing locations if allowed, drivers for new installs, etc..)
- Applications being used to support real time Operations
  - Including specific needs addressed by the tools that weren't supported before
  - Provide screen captures if possible
- Discuss obstacles encountered implementing in the control room environment and how you have, or plan to, overcome them.
  - CIP specifically would be good to speak to.
- Share lessons learned and pitfalls to avoid

# Spring 2022 NASPI Panel Session (cont'd)

- At the end of the session we'll set aside time for Q&A.
  - I'll put together some questions ahead of time and share them with the panelists in case we don't get feedback from the audience but I'm hopeful that won't be an issue.
- Any questions on or concerns with the approach?
- Am I missing something / someone that you think would add value to the panel session?
- Please let me know if you have any feedback so I can share that with the panelists.

# System Inertia Monitoring Ops Use Case

**Title:** Use of Time-Synchronized Measurements for System Inertia Monitoring

**Primary Objectives:**

- Identify traditional methods used by grid operators and electric utilities to monitor system inertia.
- Consider significant changes taking place as a result of grid modernization.
- Explain how time-synched measurements can be used to monitor actual inertia levels.
- Describe how these measurements can be used by System Ops staff to manage risk and identify potential stability issues before they occur.

Real world examples we can leverage to start?

# Time-Synched Measures Training Update

**2019:** TRS and PNNL collaborated to develop a *Use of Time-Synchronized Measurements in the Real-time Operations Horizon* training course (8 CEH).

**2020:** TRS and PNNL began developing a *Time-Synchronized Measurements Simulation Training* course (8 CEH).

**2021:** TRS and PNNL to finish developing *Time-Synchronized Measurements Simulation Training* course and create a “train-the-trainer” video for interested parties. (Still in progress)

# CRSTT – Primary Contacts

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If you want to be added to the CRSTT or DisTT email list or have questions about the NASPI website please contact [teresa.carlon@pnnl.gov](mailto:teresa.carlon@pnnl.gov)



# Distribution Task Team Monthly Meeting

July 27, 2021



# DisTT Agenda

- Presentation by Julio Romero Agüero, Quanta Technology:  
*Roadmap for distribution projects using synchronized measurements, including cost / benefits, difficulty of implementation, and value of the synchronized measurements in the application*
- Roundtable

# NASPI Reminders

- NASPI Webinar July 28<sup>th</sup> - FOA 1861 Awardees report out on Machine Learning and AI. Register here: <https://www.naspi.org/node/910>
- Save the date! NASPI Work Group Meeting October 5-7, 2021.

# DisTT Contacts

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