

# Control Room Solutions Task Team Monthly Meeting

March 30, 2021



# Agenda

- Introductions
- Review Proposed Revisions to CRSTT Work Plan
- Discuss System Inertia Monitoring Ops Use Case
- Provide Update on Time-Synchronized Measurements Training

# CRSTT Work Plan

Open Discussion: Review suggested revisions to work plan and discuss whether we need to alter our priorities and goals.



## 1 Introduction

This document defines the CRSTT's mission, priorities and goals, and planned activities for 2019.

The CRSTT will review and update this plan annually to ensure a common understanding of the team's purpose and direction.

## 2 Mission Statement

This task team's mission is to work collectively with other NASPI task teams to advance the use of real-time synchrophasor applications for the purpose of improving control room operations and grid reliability. This team will utilize its experience and regional diversity to provide advice, direction, support and guidance to NASPI stakeholders and other organizations involved in the development and implementation of real-time synchrophasor applications.

## 3 Priorities and Goals

This team's priorities are to:

1. Identify and help to address issues that are impeding the implementation of synchrophasor-based applications in the Operations Horizon.
2. Develop documentation that defines the safety, reliability and economic benefits that synchrophasor technology provides.
3. Recognize and share industry best practices.
4. Support the design, development and delivery of synchrophasor-based application training for end users.
5. Promote operational event analysis to demonstrate the value of synchrophasor technology.

This team's goals are to:

1. Develop a series of use case summary documents that define how grid operators and electric utilities are using synchrophasor data to provide operational value.
2. Create additional video event files for use cases and simulated events.
3. Gather operator feedback on synchrophasor-based applications (best practices).
4. Support the design, development and delivery of synchrophasor-related training for operations staff.
5. Develop a series of Lessons Learned documents related to the use of synchrophasor technology in the operations environment.
6. Draft new and update existing focus area documents as the need arises.

# 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.

# 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.

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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

March 30, 2021



# DisTT Agenda

Discussion: Distribution PMU use cases and associated measurement requirements



# Distribution PMU use cases and associated measurement requirements

Purpose of discussion:

Support IEEE Working Group WG C41 in compiling information about

- types of measurements and their uses
- the measurement environment and its impact on PMU performance requirements
- applications and their data needs.

Priority: *field-deployed applications*

but information about lower-TRL research applications is also relevant.

## From the Draft Scope of WG C41

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1. Analyze the measurement background for the distribution system and determine the differences between this and the transmission system. This should quantify the impact on PMU measurements and the associated performance and uncertainties.
2. Gather information on applications intended for distribution systems and requirements for PMU measurements that feed them. This examination needs to differentiate between applications that have been developed and tested and those hypothesized. It also needs to investigate the impact of degraded data.
3. Summarize the uses and limitations of different kinds of data as it is used with different applications including phasor and sampled values (Point-On-Wave).
4. Coordinate with other groups examining distribution PMU measurements and applications including NASPI and other groups.
5. This report will not address communication details or protocols other than to summarize the requirements indicated by the applications for data transfer.

# NASPI Reminders

- NASPI Webinar March 31, Synchronized Measurements in Distribution Systems - Paul Pabst, register here:  
[https://pnnl.zoomgov.com/webinar/register/WN\\_bLO75xVbRsetTLLXp0JJxQ](https://pnnl.zoomgov.com/webinar/register/WN_bLO75xVbRsetTLLXp0JJxQ)
- NASPI Work Group Meeting April 13-15 registration is open. Learn more here:  
<https://www.naspi.org/node/876>

# DisTT Contacts

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