

Synchronized Measurement Working Group Update

NASPI Fall meeting Tim Fritch 10-19-2022

RELIABILITY | ACCOUNTABILITY











- Oscillation report subcommittee
 - Criteria and process for creating oscillation report
 - Confidentially guidelines
 - Data gathering
- Hydro Unit Oscillation Event on 3/21
 - One of the seven hydro units started oscillating due to a faulty current transformer connection
 - Finalizing report and key findings
- SMWG Scope Review and Update



Parameters

Oscillation Type: Fundamental characteristic of oscillation
(Please choose one): Choose an item.
(Click or tap "Choose an item" to activate drop down box)

Duration: The time-period for the reported oscillations.
 Start: Click or tap here to enter text.

Stop: Click or tap here to enter text.

Duration (UTC Only): Click or tap here to enter text.

3. Repeated: A one-time phenomenon or observed several times.

Yes: No:

a. If Yes: How often? Choose an item.

(Click or tap "Choose an item" to activate drop down box)

b. If Conditional, please specify: Click or tap here to enter text

 Oscillation Frequency: List dominant fundamental and harmonic (if any) frequency component(s) in observable PMU waveforms during oscillation.

Magnitude: Overall maximum pk-pk amplitude in observable PMU active power, reactive power and voltage magnitude during oscillation.

Oscillation frequency close to known mode(s): Whether a fundamental or harmonic frequency is

res: 🗌 No: 🗆

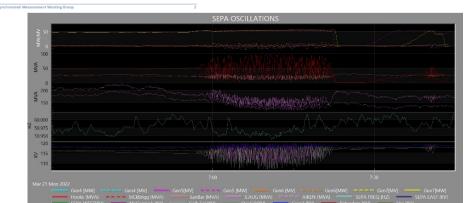
. If Yes: Name the excited mode

Interconnection: Choose an item. Mode: Choose an item

(Click or tap "Choose an item" to activate drop down box)

b. If "Other" please list here (include interconnection): Click or tap here to enter text.

7. Damping Ratio of Excited System Mode: Click or tap here to enter text.







- October 20th SMWG Meeting (Hybrid)
 - Task Updates and Review
 - Realtime Events Review
 - o 3/21 Hydro Event
 - TVA Hydro Oscillation Event
 - Integrating PMU Applications into Real-time Panel Discussion
 - Inertia Estimation
 - IEEE C37.242 Guide 2021
 - ESAMs Update
 - Utility Report-outs
 - SMWG Future Work Plan
- Spring SMWG Meeting

