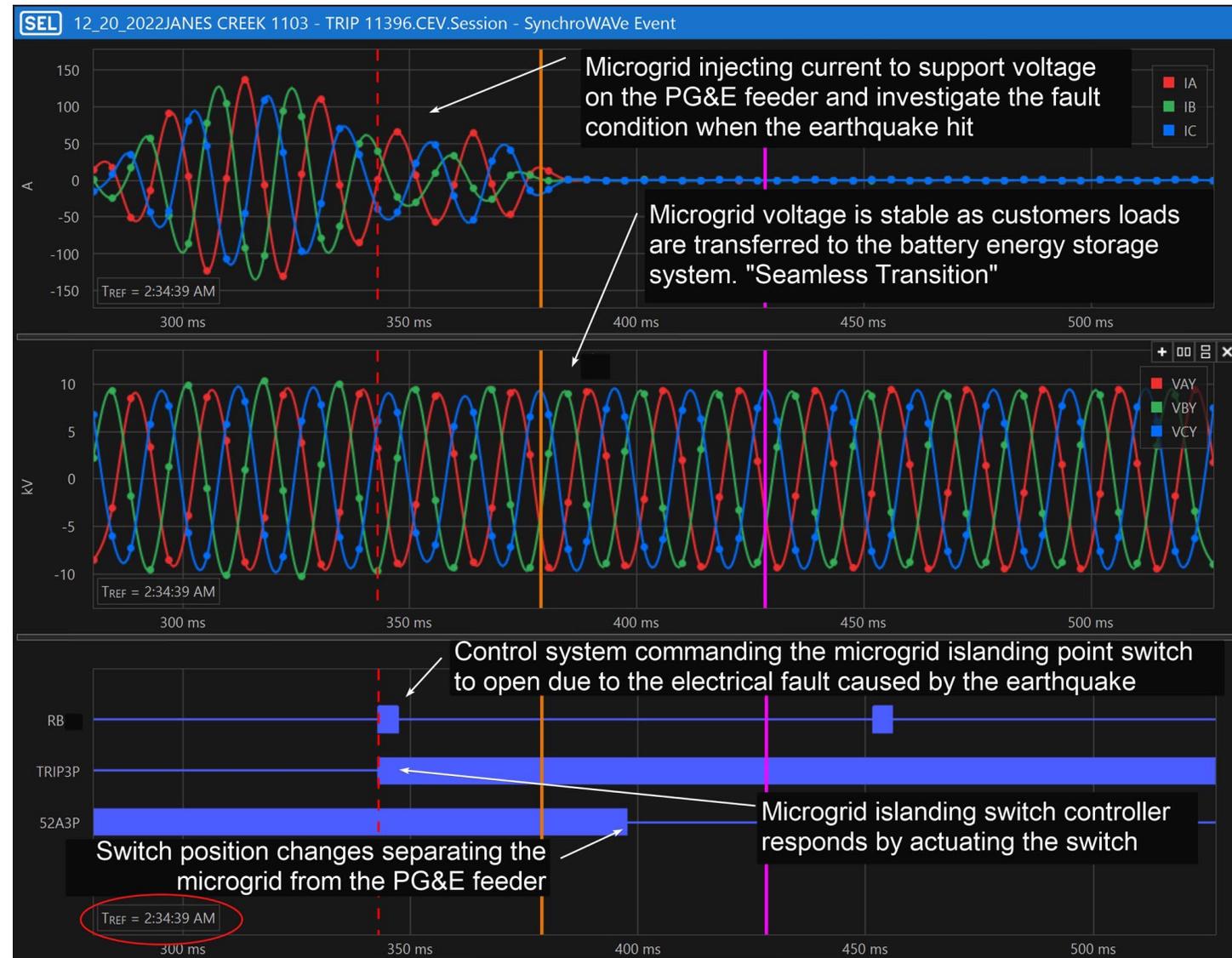


# DER Integration- Intersection of FTM and BTM

- Operational Data: Redwood Coast Airport Microgrid (RCAM)- Response to December 20<sup>th</sup> 2022 6.4M Earthquake in Humboldt County
- Seamless islanding demonstrates FTM voltage and frequency regulation capability, which can be leveraged for distributed BTM DER control without reliance on network communications
- Utilize Rule 21 Section Hh smart inverter operating requirements



# Frequency-based BTM DER control in FTM Microgrids

Two pilot projects planned at the Redwood Coast Airport Microgrid (RCAM):

1. 300 kW BTM PV Array controlled with frequency shift-up for islanded overgeneration protection
2. Four V2X EV chargers will increase charge rate when frequency is shifted up and discharge to microgrid when frequency is shifted down

- Frequency-based BTM DER control is a planned for several FTM microgrids and one large BTM microgrid proposed under the California Tribal Energy Resiliency Alliance

