

ERCOT VOLTAGE PROFILE WORKING GROUP (VPWG)

October 2021 Report to ROS

1. Recent Webex September 7

- Joint Webex with Resources and Transmission Operators held Sept 7 for feedback on Voltage Profiles or operational voltage issues.
- ERCOT gave a short introduction to their new Generator Voltage Performance Report. This monthly report shows by POI which plants were outside the tolerance band of the TOs' voltage set point, and lists magnitudes of exceedances and how often they exceeded it. ERCOT wants VPWG to take this information and work with the QSE/REs to work through the communication, process or plant operational issues to help the generators stay within tolerance band. ERCOT said it's not intended as a compliance tool, but should flush out individual plant issues to be resolved between the Resources and Transmission Operators.
- Stephen Solis mentioned two ancillary issues ERCOT observed during the May 9 event analysis that ERCOT is following up on. The issues were the impact to ERCOT area studies for any solar plants that leave their AVRs on at night when not operating, and about any IRR plants not switching in their automatic shunts when at high MW output. Unless the shunts automatically switch in properly at high output, generator reactive capability is largely absorbed by the plant's collector system and becomes unavailable to support the system in real time.
- ERCOT is transitioning from using RARFs for generator information to accessing it through RIOO-RS. Several TSPs had questions about obtaining reactive data used for EMS displays between yearend when the RARFs go away and spring 2022 when RIOO-RS becomes available to TSPs. ERCOT RIOO builders are on a tight schedule to develop RIOO Create, but are working on a temporary way to provide this critical generator reactive data to the TSPs during the transition.
- VPWG kicked off the Winter/Spring Voltage Profiles study.

2. Future Planned Webex

- Next VPWG Webex is November 9.

Scot Williams
VPWG Chair

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VPWG Vice-Chair