

ERCOT VOLTAGE PROFILE WORKING GROUP (VPWG)

June 2021 Report to ROS

1. Recent Webex June 8

- ERCOT is developing a monthly report to show voltage control performance for all ERCOT generators. VPWG and ERCOT brainstormed to help identify necessary considerations. For example, before comparing set point and measured POI voltages, a preliminary screen was suggested to eliminate times when generators cannot physically perform voltage control, like when an IRR plant is generating at less than 10% of capacity. ERCOT plans to finalize the draft tool in August.
- VPWG further discussed the topic from the April 6 joint meeting with Resources and Transmission Operators about better voltage coordination at times when generators stay close to their tolerance band limits. TOs have resolved several telemetry issues and held joint discussions with some plants to improve ongoing communication. The tool above should help identify which areas or units may perennially be operating close to tolerance band limits.
- A review of ROS' Emergency Conditions List did not find any issues to be addressed by VPWG. And TOs verified that even during maximum load shed conditions in February, no transmission voltage issues were observed that were uncorrectable through minor reactive device adjustment.
- The group discussed potential new techniques to be developed for TO monitoring of Energy Storage Resources (ESRs). Unless it's being contracted entirely for MWH sales, ESR MW output cannot be anticipated in the upcoming hour as readily as other existing generator types because ESR output results directly from market opportunities. This combined with the fact that TO operators monitor during random scan points during the day make it hard to see the maximum MW ESR flows and the resulting voltage implications. Consideration is being given to increasing the scan rate, saving all intermediate scans and developing display alarming calculations from the scan string.

2. Future Planned Webex

- Next VPWG will be held August 10.

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VPWG Chair

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VPWG Vice-Chair