



NERC Standard MOD-032 Data for Power System Modeling and Analysis

July 2023

Operating Committee

NERC Reliability Requirements – Effective

- Per <u>TOP-003</u> R1, Transmission Operators (TOPs) are required to maintain a "data specification" needed for day-ahead studies and real-time operations, including "**non-BES data** and external network data **as deemed necessary** by the Transmission Operator"
- DER data is "non-BES data," whether from a NERC-registered DP or a non-NERC registered DP
- Per TOP-003 R5, Distribution Providers (DPs) must satisfy the data specification for all non-BES data needed by TOP
- NERC auditors are now <u>required</u> to ask TOPs about how situational awareness is maintained for contingency analysis, system restoration, and emergency load shed requirements with high-levels of DER



NERC Reliability Requirements – Proposed

- Per the <u>draft MOD-032</u> R1, Transmission Planners (TPs) are required to maintain "data requirements" of data needed for steady-state, dynamics, and short circuit studies including DER data, from both NERC-registered DPs and non-registered DPs, including:
 - a. Location and if DER feeder is subject to UFLS and/or UVLS
 - b. Real power capability (minimum and maximum)
 - c. Reactive power capability (minimum and maximum)
 - d. Generator type (solar, battery, etc.)
 - e. In-service date or other information to be used to make assumptions about DER capabilities related to ride-through, voltage control and/or frequency control.
- This draft is considered a <u>NERC Board Priority</u>, and is consistent with <u>FERC's NOPR</u> on <u>Reliability Standards to Address Inverter-Based Resources</u> and the <u>NERC DER</u> <u>Strategy</u>.



VX Platform Commissioning Criteria

 VELCO does not (and will not) have control of any distribution assets or distributed energy resources, including inverter-based generation and flexible load
Evidence: SCADA/EMS control points

VELCO does not (and will not) have personally-identifiable customer information in VX Platform

Evidence: Database fields

 VELCO does have operational reliability parameter and sensor data to perform transmission functions required as a NERC-registered Transmission Operator
Evidence: Database fields, SCADA/EMS analogue and indication points

 VELCO does have network model parameter and sensor data to perform transmission functions required as a NERC-registered Transmission Planner
Evidence: Database fields, SCADA/EMS analogue and indication points

