



## PSCAD Model Confidentiality and Usability Challenges

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# Need For PSCAD Models

- SSO Evaluations
  - Inverter-based resources
- Reliability Assessments Under “Weak Grid” Conditions
  - New application for EMT (PSCAD) simulations/modeling
  - Positive sequence (PSS/e) models not adequate

# Confidentiality of PSCAD Models

- Non-Disclosure Agreement (NDA)
  - Often required by manufacturers and individually negotiated
  - Inhibits collaboration between ERCOT and TSP(s) when evaluating system reliability
- Confidentiality Proposal
  - ERCOT will no longer sign NDAs with individual manufacturers/model developers
  - Resource Entities responsible for providing necessary PSCAD models (through RARF)
  - PSCAD models considered protected information under standard confidentiality rules (ERCOT Nodal Protocols, Section 1.3)

# What Should Be Included in a PSCAD Model?

- DMTF is considering PSCAD model guideline proposals
  - Model Accuracy Features
  - Model Usability Features
  - Model Efficiency Features

# Where Should PSCAD Model “Rules” Reside?

- DMTF Is Considering Options
  - DWG Procedure Manual
  - Planning Guides
  - Nodal Protocols
  - “Checklist” incorporated into RARF
  - Non-binding stand-alone guidelines document
  - A combination of the above

# QUESTIONS?