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**Generator Model Data  
Management:  
NERC Standards  
MOD-026-1 and MOD-027-1**

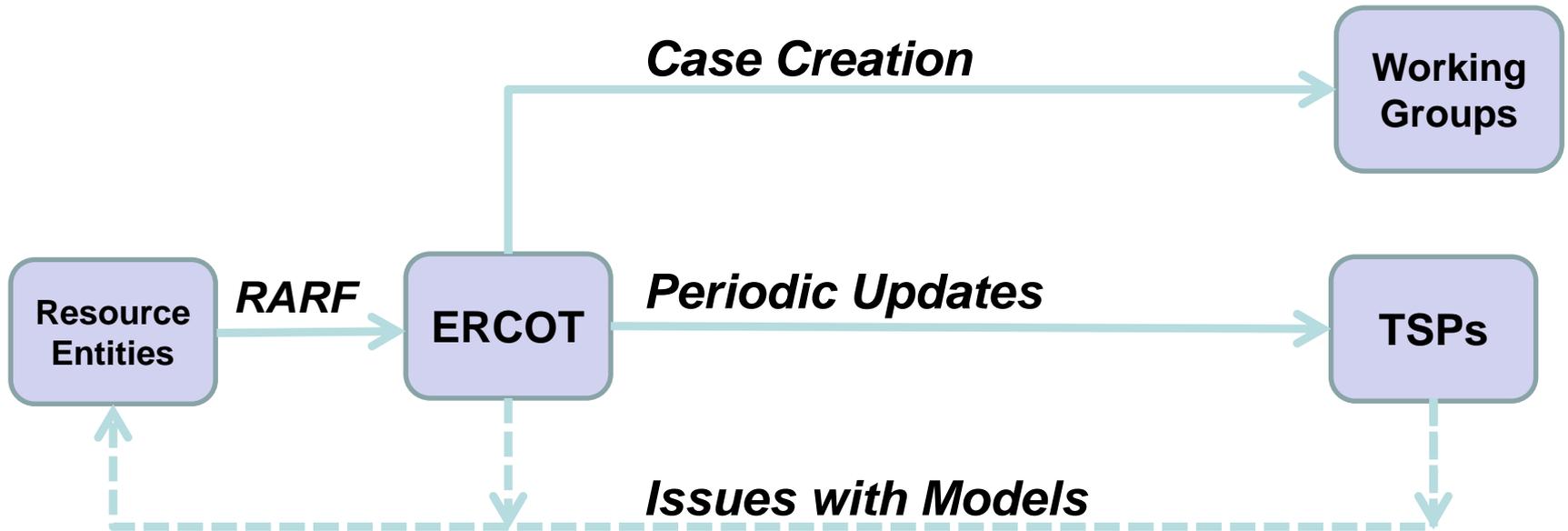
**Mark Henry**  
**Director, Reliability Services**  
**Texas Reliability Entity, Inc.**

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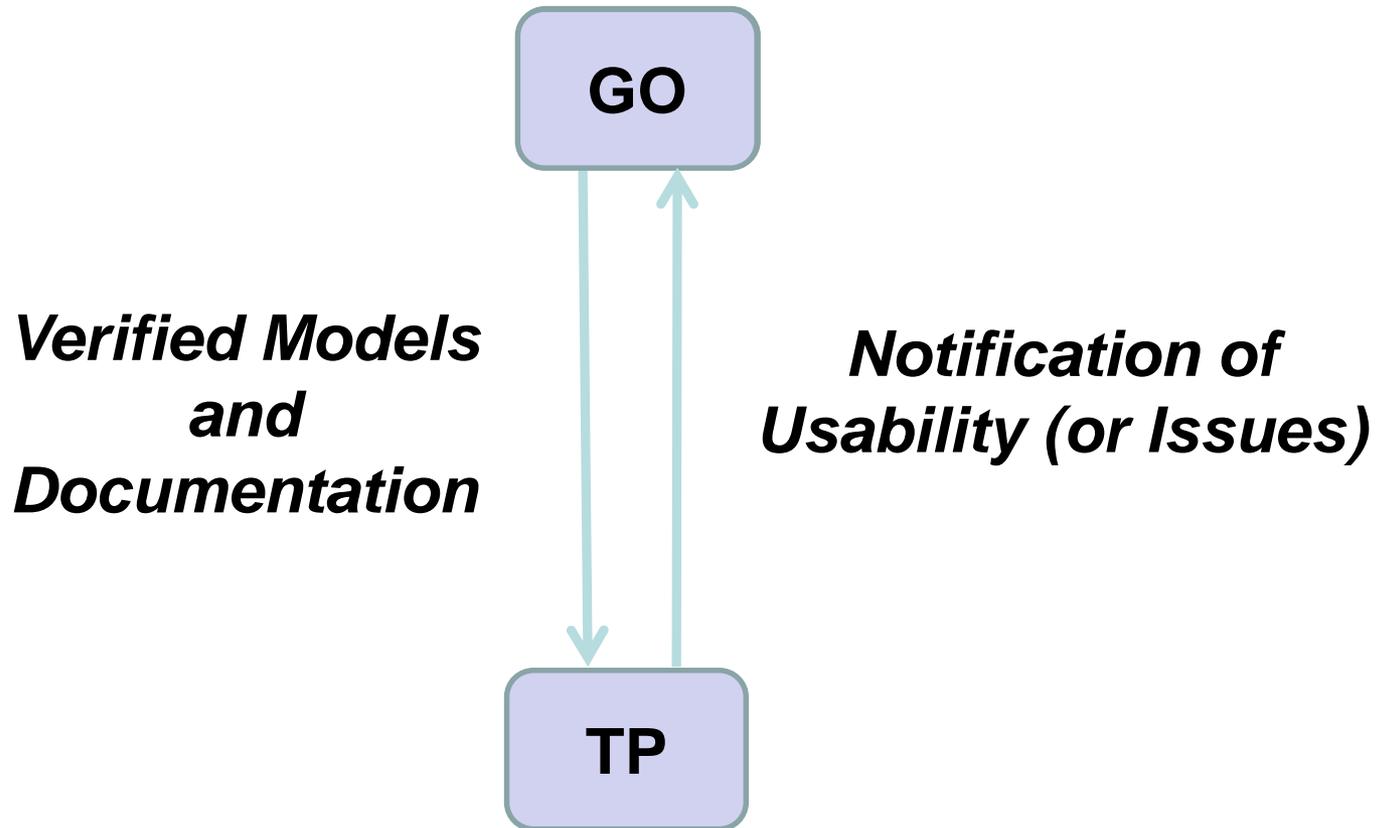
# MOD-026-1 and MOD-027-1

- **Verification of Models and Data for:**
  - [MOD-026](#): Generator Excitation Control System or Plant Volt/Var Control Functions
  - [MOD-027](#): Turbine/Governor and Load Control or Active Power/Frequency Control Functions
- **Applicability:**
  - Generator Owners (GO)
  - Transmission Planners (TP)
- **Facilities:**
  - Generating unit > 50 MVA
  - Generating plant consisting of multiple generating units directly connected at a common Bulk Electric System (BES) bus with total generation > 75 MVA

# Existing Process



# NERC MOD-26-1 and MOD-27-1 Process



# Timelines for MOD-026-1 and MOD-027-1

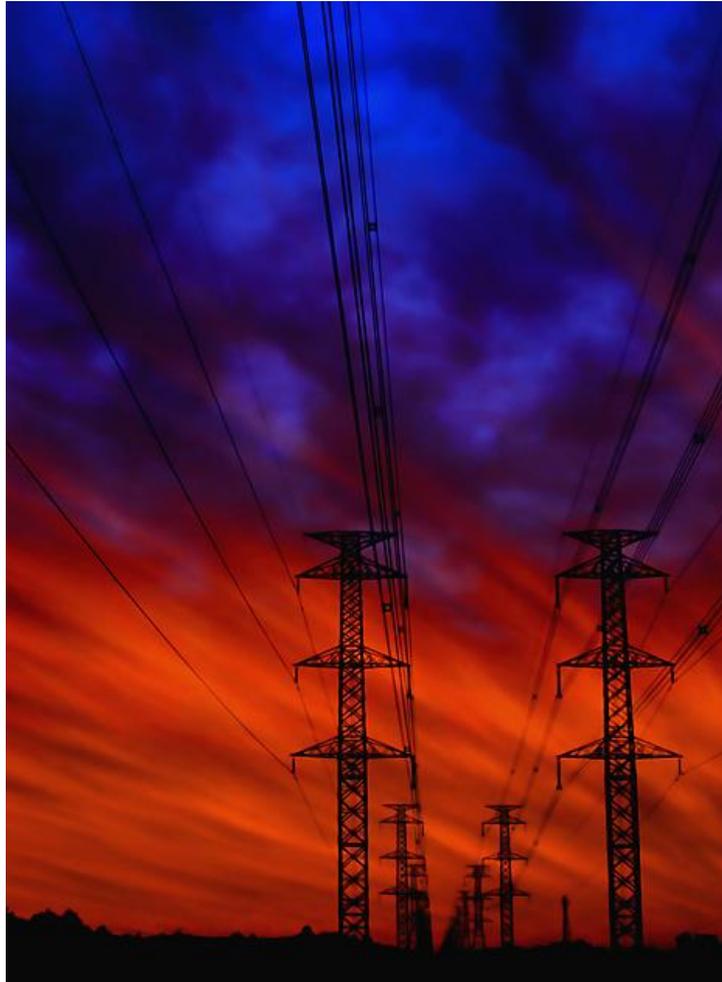
- **July 1, 2018 new units have one year to perform verification after commission date**
- **Within a GO, existing units have multiple year roll-out**
  - 30% of MVA by July 1, 2018
  - 50% of MVA by July 1, 2020
  - 100% of MVA by July 1, 2024
- **TPs – 90 day review and acknowledgement of verified models from GOs**
- **GOs – 90 day response to TP questions about submitted models**
- **Both processes must occur unless it is adapted into the RARF process**

# Contact Information

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  - 512-583-4988

# Questions?



# Acronyms

- **Bulk Electric System (BES)**
- **Dynamics Working Group (DWG)**
- **Electric Reliability Council of Texas (ERCOT)**
- **Generator Owners (GO)**
- **Resource Asset Registration Form (RARF)**
- **Steady State Working Group (SSWG)**
- **System Protection Working Group (SPWG)**
- **Transmission Planners (TP)**
- **Transmission Service Provider (TSP)**