



# Generation Entity (GE) Winter Inspection Checklists

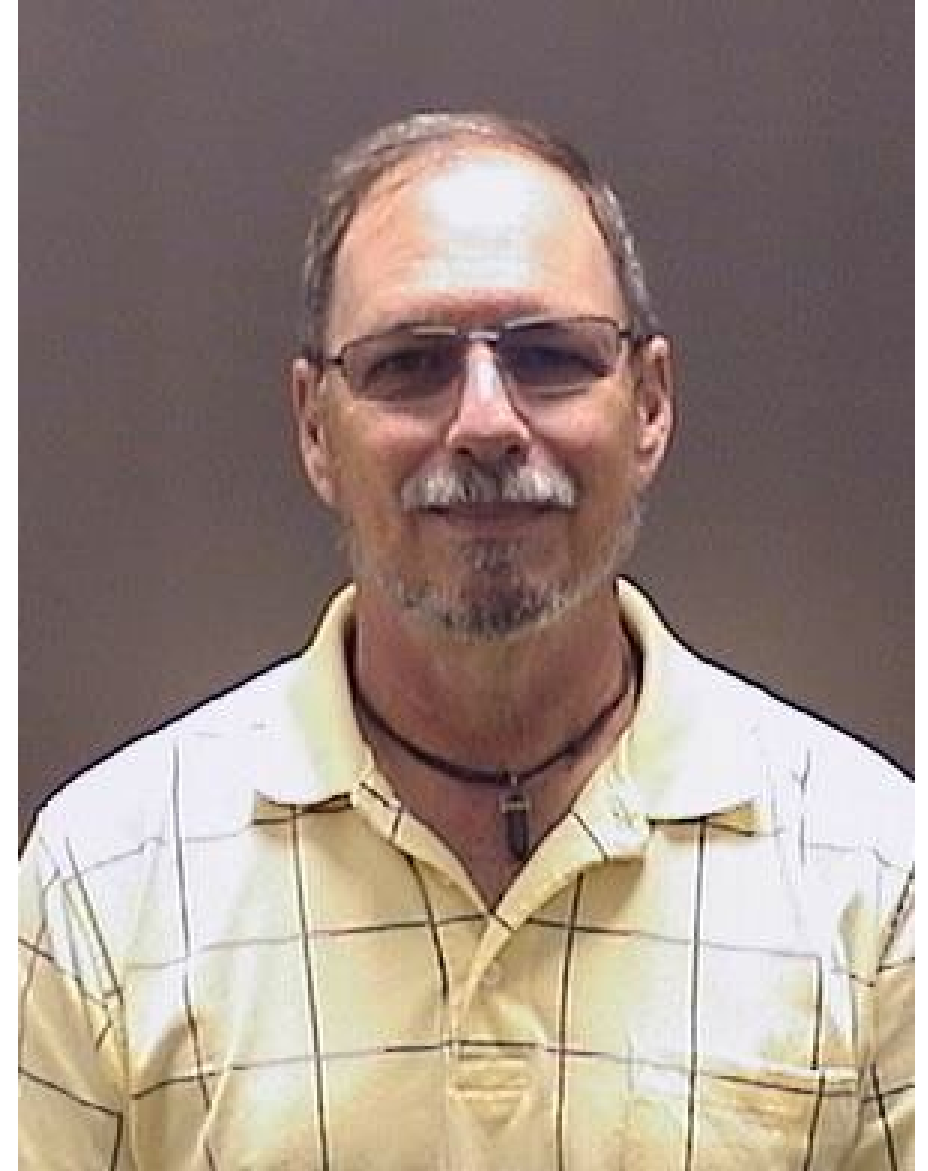
Weatherization and Inspection Team

October 28, 2024

# Dennis Horton

## Weatherization Inspector, Lead

- Joined ERCOT in August of 2024
- Located out of Lubbock, TX
- Pre-ERCOT Experiences
  - Worked 20 years in electrical generation
  - 6 years in the field in as a plant (auxiliary) operator
  - 14 years as a Licensed Control Room Operator
- Veteran of the US Marine Corps
  - 4 years Troop Leadership, Gulf War Veteran
- Far West Weather Region



# Godswill Peter

## Program Analyst II

- Joined ERCOT in November 2023
- Located out of College Station, Texas
- Pre-ERCOT Experiences
  - 2 Years as a project development Analyst in the Renewable Energy Industry
  - 1 year in the Telecom Industry as a Project Planner/Analyst
- Education
  - Bachelor of Engineering in Civil and Geophysical Engineering
  - Masters Of Science and Engineering in Renewable Energy



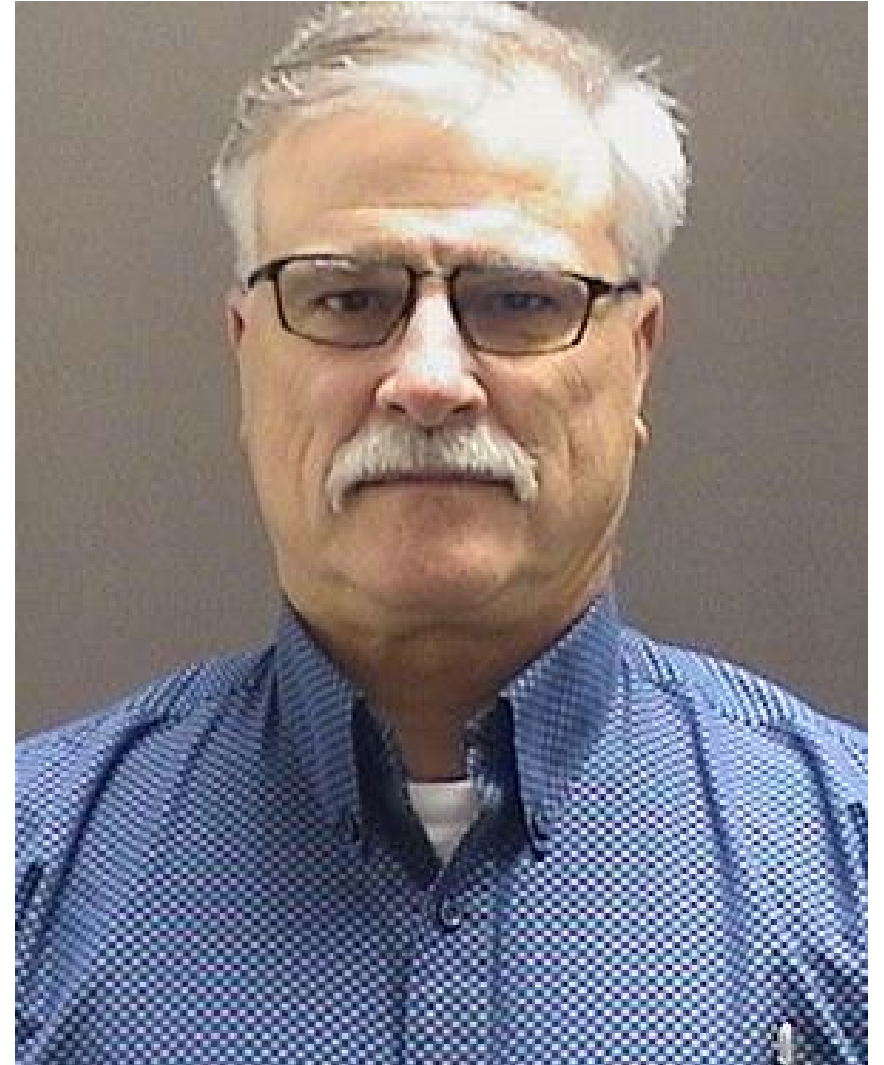
## Introduction

- Weatherization Checklist developed in accordance with PUCT 16 TAC §25.55 subsection (c)(1)
- Weatherization and Inspection Team does not provide a legal interpretation of §25.55 Weather Emergency Preparedness.
- Inspection schedule is confidential, access limited to ERCOT and PUCT.
- Inspection scheduling period: December 2, 2024, to February 28, 2025.
- Inspection exclusions:
  - Tuesday, December 24<sup>th</sup> - Christmas Eve
  - Wednesday, December 25<sup>th</sup> - Christmas Day
  - Thursday, December 26<sup>th</sup> - Day after Christmas
  - Wednesday, January 1<sup>st</sup> - New Year's Day
  - Monday, January 20<sup>th</sup> - Martin Luther King Jr. Day
  - Monday, February 17<sup>th</sup> - Presidents' Day

# Kevin Harris

## Weatherization Inspector Lead

- Joined ERCOT in November of 2022
- Located out of Bay City area
- Prior to ERCOT, worked in Electrical Generation for 31 years:
  - 22 years as a Field Operator
  - 7 years as a Control Room Operator exclusively
  - 2 years as a Work Week Coordinator
- Veteran of the US Air Force
  - Worked as an Aircraft Mechanic, specializing in Flight Control, Landing, and Canopy Systems.
- Coastal Weather Zone



# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (E): Beginning in 2023, create a list of all cold weather critical components, review the list at least annually prior to the beginning of the winter season, and update the list as necessary.
- The Checklist:
  - List of cold weather critical components (CWCCs)
  - *Review list at least annually before winter season and update list as necessary*

Yes	No	N/A
0	0	0
0	0	0

# GE Checklist

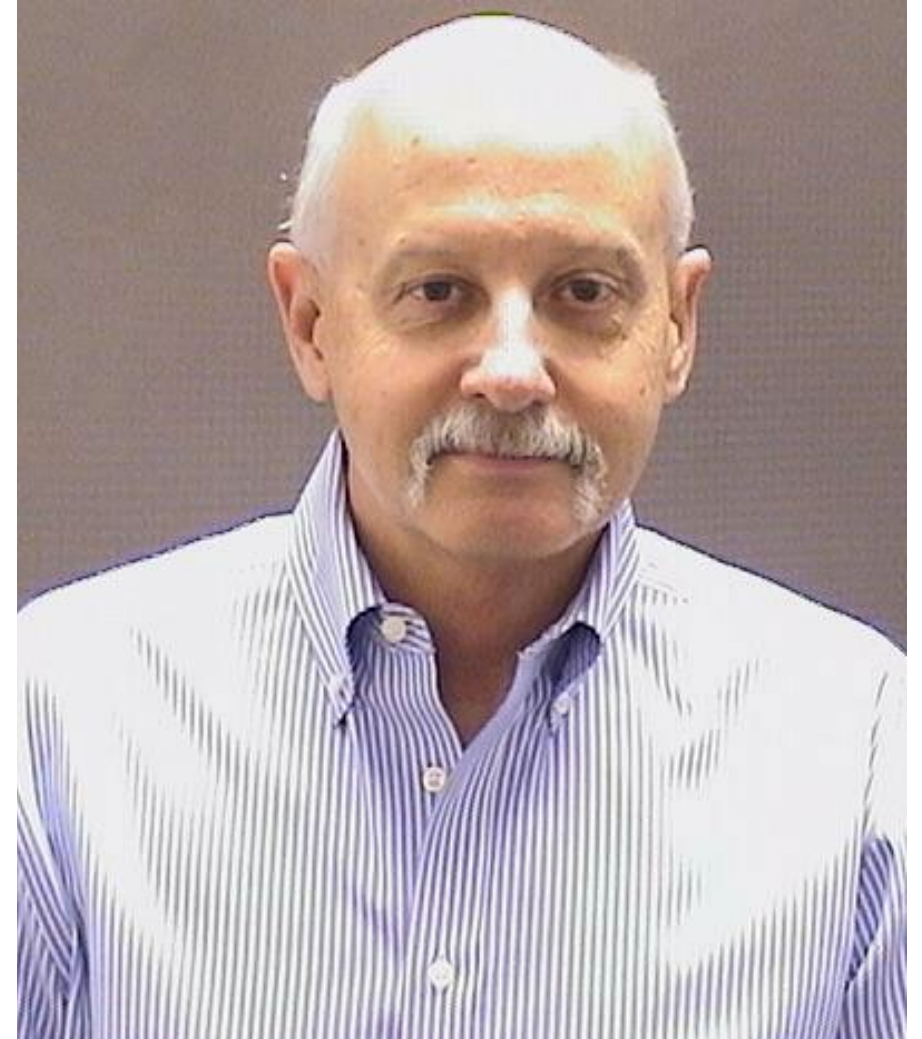
- The Rule:
  - 16 TAC § 25.55 (c) (1) (A) (i): Installation and maintenance of adequate wind breaks for resources susceptible to outages or derates caused by wind;
- The Checklist:
  - Records of Installation and maintenance of adequate wind breaks for resources susceptible to outages or derates caused by wind
  - Records of maintenance of adequate wind breaks throughout the winter season and complete any ongoing or monthly requirements at the appropriate time

Yes	No	N/A
0	0	0
0	0	0

# Darryl Nitschke

## (Weatherization Inspector Lead)

- Joined ERCOT in October 2023
- Located out of DFW area
- Worked in Power Generation for 37 years
  - 17 years as Plant Manager of Combined Cycle Plants
  - 4 years as a Plant Operations Manager
  - 5 years as a Plant Operations Supervisor
- North Central Weather Zone





# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (A) (ii): Installation and maintenance of insulation and enclosures for all cold weather critical components;
- The Checklist:
  - Records of Installation and maintenance of insulation and enclosures for all CWCCs
  - Records of maintenance of insulation and enclosures for all CWCCs throughout the winter season and complete any ongoing or monthly requirements at the appropriate time

Yes	No	N/A
0	0	0
0	0	0

# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (A) (iii): Inspection of existing thermal insulation and associated forms of water-proofing for damage or degradation, and repair of damaged or degraded insulation and associated forms of water-proofing;
  
- The Checklist:
  - Prior to winter season, records it has inspected and repaired:
    - Existing thermal insulation and associated forms of water-proofing for damage or degradation for all CWCCs
  - Records of inspection and maintenance of existing thermal insulation and associated forms of water-proofing for damage or degradation for all CWCCs throughout the winter season and complete any ongoing or monthly requirements

Yes	No	N/A
0	0	0
0	0	0

# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (A) (iv): Arrange and provide for the availability and appropriate safekeeping of sufficient chemicals, auxiliary fuels, and other materials necessary for sustained operations during a winter weather emergency;
  
- The Checklist:
  - Prior to winter season, records of arranging and providing for the availability and appropriate safekeeping of:
    - Sufficient chemicals
    - Auxiliary fuels
    - other materials
  - Records of arranging and providing for the availability and appropriate safekeeping of such materials necessary for sustained operations during a winter weather emergency throughout the winter season and complete any ongoing or monthly requirements

Yes	No	N/A
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# Jake Jacobs

## Weatherization Inspector, Sr

- Transitioned within ERCOT in November of 2022
- Located out of McDade, TX
- ERCOT Experiences
  - 2 years as a Market Analyst, helped implement Zonal to Nodal market, assisted in Black-Start testing
  - 10 years as an ERCOT System Operator, Real-Time, Day-Ahead, and Transmission Desks
- Pre-ERCOT Experiences
  - Worked 3 years as a Substation Electrician
  - 3 years as a System Operator.
- Veteran of the US Marine Corps
  - 6 years as an aircraft avionics technician
- South Central Weather Region



# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (A) (v): Plan for and maintain the operability of instrument air moisture prevention systems;

- The Checklist:

- Prior to winter season, records of monitoring, planning and maintenance of the operability of instrument air (IA) moisture prevention systems
- Records of monitoring, planning and maintenance of IA moisture prevention system throughout the winter season and complete any ongoing or monthly requirements

Yes	No	N/A
0	0	0
0	0	0

# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (A) (vi): Maintenance of freeze protection equipment for all cold weather critical components, including fuel delivery systems controlled by the generation entity, and testing or verifying the functionality of freeze protection equipment prior to and on a monthly basis during the winter season;

- The Checklist:

- Records of maintaining freeze protection equipment for:
  - All CWCCs
  - fuel delivery systems controlled by the GE
- Records of testing and verifying functionality of freeze protection equipment
  - prior to the winter season
  - monthly during the winter season

Yes	No	N/A
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# Neil Quast

## Weatherization Inspector, Sr

- Joined ERCOT in November of 2022
- Located out of College Station, TX
- Pre-ERCOT Experiences
  - Worked in Electrical Generation for 11 years
  - 2 years Licensed Reactor Operator
  - 5 years field operator
  - 4 years Ops Training Instructor
- Veteran of the US Navy Nuclear Program
  - 10 years as an operator and Electronics Technician
- East Weather Region



# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (A) (vii): Monitoring of all cold weather critical components, including circuitry that provides freeze protection or prevents instrument air moisture;
- The Checklist:
  - Records of Monitoring:
    - All CWCCs
    - Circuitry that provides freeze protection
    - Prevents IA moisture

Yes	No	N/A
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0	0	0
0	0	0



# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (A): Implement weather emergency preparation measures that could reasonably be expected to ensure the sustained operation of all cold weather critical components during winter weather conditions. Where appropriate, such measures may be implemented using either personnel or automated systems. Such measures include, as appropriate for the resource:
- The Checklist:
  - Does the GE have records it implemented weather emergency preparation measures that could reasonably be expected to ensure the sustained operation of all CWCCs during winter weather conditions using either personnel or automated systems where appropriate?

Yes	No
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# Audie Proctor

## Weatherization Inspector Lead

- Joined ERCOT in October 2022
- Located out of Nocona, TX
- Pre-ERCOT Experiences
  - Worked in electrical generation for 24 years:
    - 10 years as a field operator
    - 9 years as a control room operator
    - 2 years as a control room supervisor
    - 3 years in work control/planning.
- Building trades installing commercial and industrial insulation for 8 years
- North Weather Region



# GE Checklist

- The Rule:

- 16 TAC § 25.55 (c) (1) (B): Beginning in 2023, implement weather emergency preparation measures by December 1 each year, in addition to the weather emergency preparation measures required by subparagraph (A) of this paragraph, that could reasonably be expected to ensure sustained operation of the resource at the 95th percentile minimum average 72-hour wind chill temperature reported in ERCOT’s historical weather study, required under subsection (i) of this section, for the weather zone in which the resource is located.

The Checklist:

- Records demonstrating that the GE’s existing weather emergency preparation measures are adequate to meet (c)(1)(B). (Method of demonstration may be 1) a wind chill value calculated from the design basis cold temperature and the design basis wind speed, 2) historical operational data, or 3) other. If other, confer with W&I management after inspection.)
- (Second question only applies if answer to first question was “No”) Records demonstrating GE implemented additional weather emergency preparation measures to meet (c)(1)(B).

Yes	No	N/A
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# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (C): Review the adequacy of staffing plans to be used during a winter weather emergency and revise the staffing plans, as appropriate.
- The Checklist:
  - Records of reviewing adequacy of staffing plans for a winter weather emergency
  - If appropriate, revised staffing plans

Yes	No
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0	0

# Greg Schwierking

## Weatherization Inspector Lead

- Transitioned within ERCOT in December of 2022
- Located out of Corpus Christi, TX
- ERCOT Experience:
  - System Operations at ERCOT
- Pre-ERCOT Experiences
  - 12 years in QSE Day Ahead and Real Time Operation
  - 26 years in Power Plant Operations/Maintenance.
- Southern Weather region



# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (c) (1) (D): Train relevant operational personnel on winter weather preparations and operations.
- The Checklist:
  - Records of training personnel on winter weather preparations and operations

Yes	No
0	0

*Any relevant personnel directly responsible for implementing, maintaining, or overseeing the weather preparations and operations measures, or taking action as part of the weather response in accordance with the provisions of 16 TAC §25.55 - Weather Emergency Preparedness.”*

# GE Checklist

- The Rule:
  - 16 TAC § 25.55 (d) (2) (B) (i): The cure period determined by ERCOT must consider what weather emergency preparation measures the generation entity may be reasonably expected to have taken before ERCOT’s inspection, the reliability risk of the resource’s noncompliance, and the complexity of the measures needed to cure the deficiency.

- The Checklist:

- If the GE has not complied with any part of 25.55(c)(1), confer with the GE on a cure period to address identified deficiencies and document accordingly.

The weatherization team will discuss the factors, determine an appropriate cure period, and inform the GE of the cure period.

Yes	No
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## Communications

- All inspections-related communication must be routed via W&I Market Participant Portal.  
User Guide: [Weatherization & Inspection Market Participant Portal User Guide](#)
- Creating and maintaining systematic and logical records of items relevant to PUCT 16 TAC § 25.55 Weather Emergency Preparedness regulations will facilitate the inspection process.
- Records can also be uploaded in WOTs prior to the inspection for review to facilitate inspections.
- Effective communication and collaboration between the Market Participant's personnel and the Weatherization and Inspection Team will support successful completion of winter inspections.
- For ALL other inquiries, contact your ERCOT Account Manager or ERCOT Client Services at (512) 248-3900 or [clientservices@ercot.com](mailto:clientservices@ercot.com).





THANK YOU