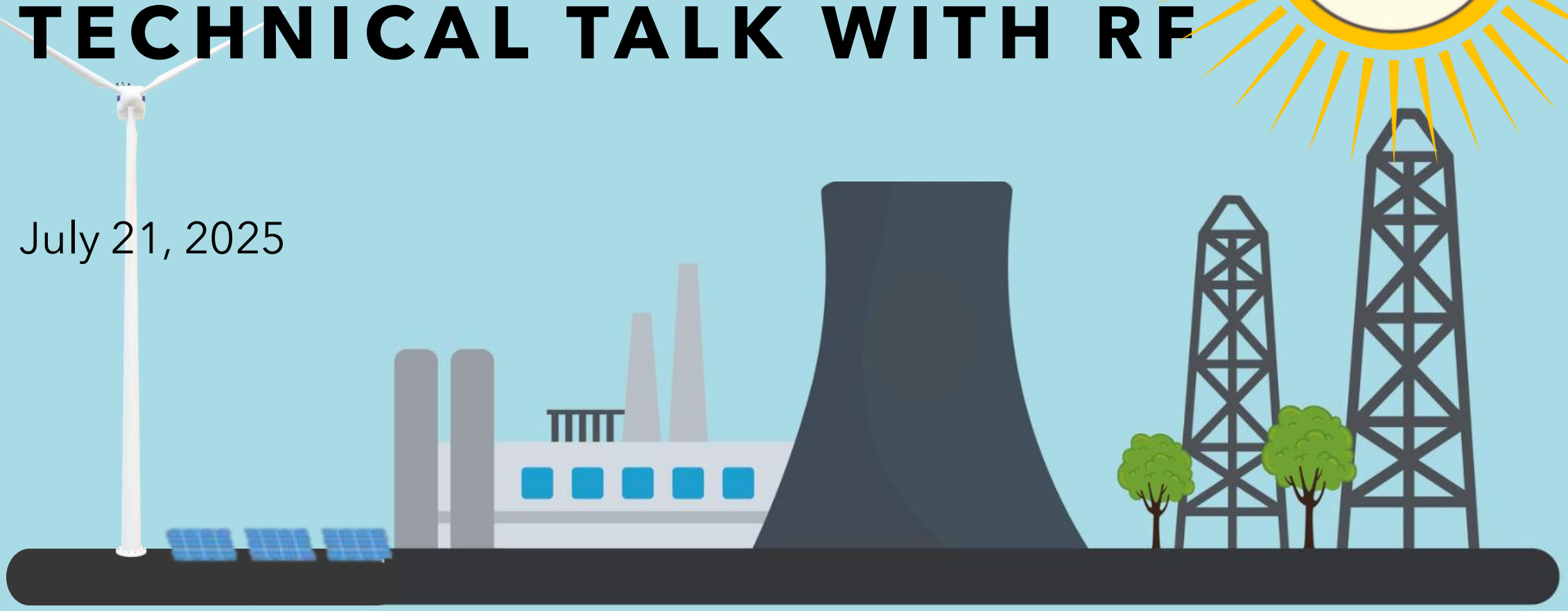
FORWARD TOGETHER RELIABILITYFIRST

WELCOME TO TECHNICAL TALK WITH RF

July 21, 2025



FORWARD TOGETHER RELIABILITYFIRST

WELCOME TO TECHNICAL TALK WITH RF

TECH TALK WITH RELIABILITY FIRST

Winter in July Edition

July 21, 2025

TECHNICAL TALK WITH RF

FORWARD TOGETHER RELIABILITYFIRST

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TECHNICAL TALK WITH RF

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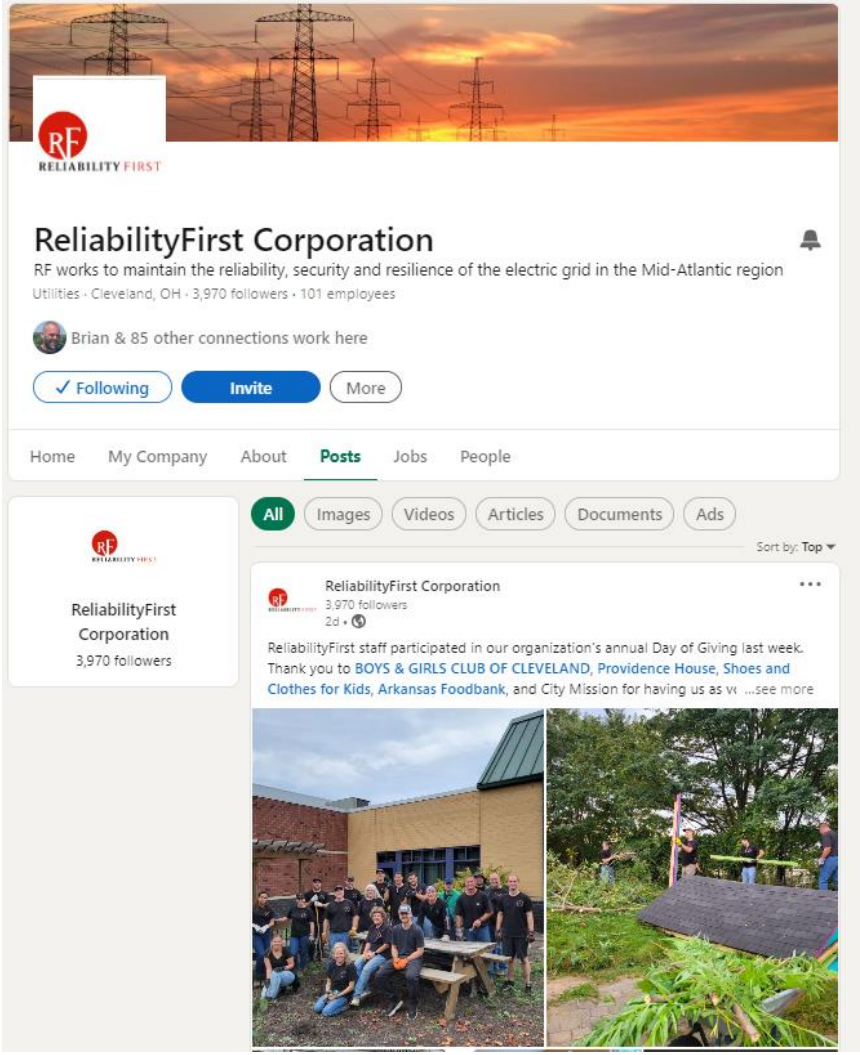

TECH TALK REMINDERS

Please keep your information up-to-date

- CORES and Generation Verification Forms

Following an event, send EOP-004 or OE-417 forms to disturbance@rfirst.org

CIP-008-6 incident reports are sent to the E-ISAC and the DHS CISA

Check our monthly CMEP update and newsletter:

- 2025 ERO Periodic Data Submittal schedule
- Timing of Standard effectiveness

BES Cyber System Categorization (CIP-002-5.1a)

- Assess categorization (low, medium, or high) regularly and notify us of changes

CIP Evidence Request Tool V9 was released and is on NERC's website

TECH TALK REMINDER

Are you getting our newsletter ***First Things RFirst?***

- Sign up today **here**

Also, make sure to check out our **2024 Impact Report** and **video**

RELIABILITY FIRST

First Things RFirst

Expert analysis for a more reliable, secure and resilient electric grid, plus news and updates for RF stakeholders.

June 2024

Insights & Analysis

ReliabilityFirst 2024 Summer Reliability Assessment

RF's Summer Reliability Assessment projects the PJM and MISO areas to have adequate resources under normal demand, but if demand or resource outages are experienced beyond those projections, there is an increased likelihood that corrective actions would be needed. This risk is low in the PJM area, but it is elevated in the MISO area.

Click here to read more

The Lighthouse: The challenges of Operational Technology cyber security

Our modern civilization relies on Operational Technology (OT) to keep essential services working. The electric grid, pipelines, water treatment plants, transportation systems, and many more all depend on OT to deliver reliable services. Operating these systems securely comes with a host of cyber security challenges.

Click here to read more

FORWARD TOGETHER RELIABILITYFIRST

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TECH TALK WITH RELIABILITY FIRST

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TECH TALK ANNOUNCEMENT

RELIABILITYFIRST

ReliabilityFirst Hosting a CIP Low Impact Workshop

(In-Person Only)

August 19th – 21st

Register Now: Eventbrite
Event Details: rfirst.org

The RF Low Impact Workshop will give attendees the opportunity to improve their understanding of security and compliance for CIP assets containing low impact BES Cyber Systems.
Attendees will be able to choose from three training tracks on Day 1.
Day 2 will be a workshop with presentations and panels on various topics of interest to the CIP low impact community.
Registration is limited, so be sure to sign up early!

RF Offices, Cleveland, Ohio
August 19-21, 2025
Free to attend, Registration is Limited!
Details and Registration:
https://www.rfirst.org/event/cip-low-impact-workshop/

TECH TALK ANNOUNCEMENT

RELIABILITYFIRST

Fall Reliability & Security Summit

(In-Person Only)

September 8-10th 2025

Register Now: Eventbrite

Event Details: rfirst.org

Join ReliabilityFirst at our annual Fall Reliability & Security Summit, hosted this year at the MGM National Harbor just outside of Washington, D.C.

We'll kick things off with an evening reception and our Reliability Recognition Awards Ceremony on Monday, Sept. 8, followed by an exciting agenda on Tuesday, Sept. 9. We'll be joined by key players from across the electric industry, including executives from FERC, NERC, PJM, AEP, LS Power, and more for a panel discussion as well as presentations on FERC Orders, RF Compliance and Enforcement, and more. Registration is limited, so be sure to sign up early!

MGM National Harbor, Oxon Hill, MD
September 8-10, 2025
Free to attend, Registration is Limited!
Details and Registration:
https://www.eventbrite.com/e/2025-fall-reliability-security-summit-tickets-1438521599829?aff=oddtdtcreator

TECH TALK ANNOUNCEMENT

U.S. DEPARTMENT of ENERGY

Department of Energy Releases Report on Evaluating U.S. Grid Reliability & Security

Read here: Report

The U.S. Department of Energy (DOE) today released its Report on Evaluating U.S. Grid Reliability and Security. The report fulfills Section 3(b) of President Trump's Executive Order, Strengthening The Reliability And Security Of The United States Electric Grid, by delivering a uniform methodology to identify at-risk regions and guide Federal reliability interventions.

The analysis reveals that existing generation retirements and delays in adding new firm capacity, driven by the radical green agenda of past administrations, will lead to a surge in power outages and a growing mismatch between electricity demand and supply, particularly from artificial intelligence (AI)-driven data center growth, threatening America's energy security.

TECH TALK ANNOUNCEMENT

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

Cold Weather Preparedness Small Group Advisory Sessions (SGAS) Tentatively Planned for the week of August 18, 2025

The event will consist of two parts:

- **General Session Live Webinar:** A general session will be held to discuss EOP-012-3 on Monday, August 18, 2025 (TBD). **Registration for a one-on-one session is not necessary to participate in this general session.**
- **SGAS One-on-One Sessions:** Closed, one-on-one discussions between a registered entity's Subject Matter Experts (SMEs) and ERO Enterprise staff about issues pertinent to that entity's implementation of EOP-012-3 and any other cold weather-related concerns. These sessions will occur Tuesday, August 19, 2025 – Friday, August 22, 2025. **NERC will schedule the one-on-one sessions after registration is received and is coordinated with Regional Entity staff.**

For more information, please contact Derek Kassimer (via email) or at **470-936-3260**

TECH TALK ANNOUNCEMENT

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

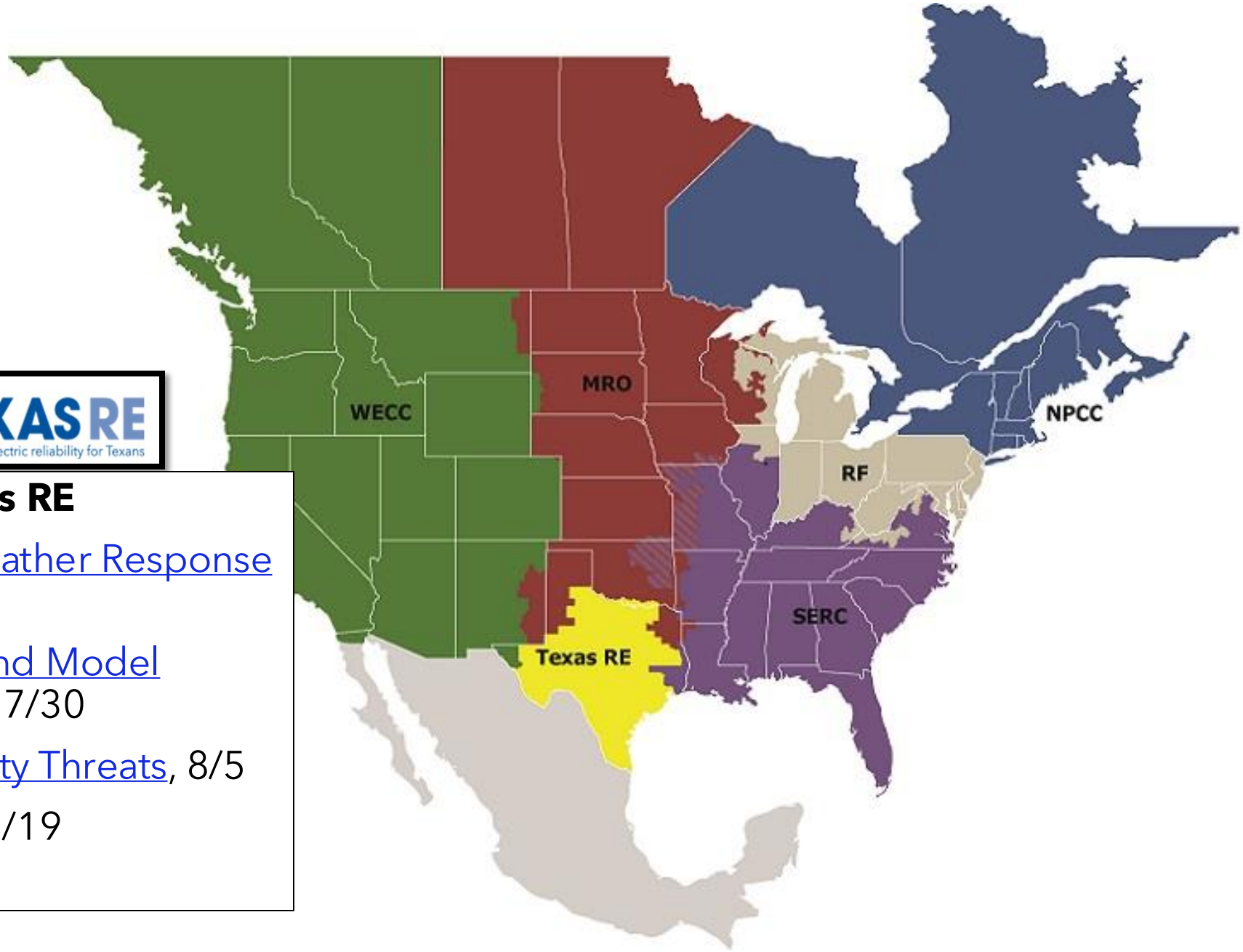
IBR REGISTRATION INITIATIVE

NERC Releases New Infographics to Support Entities in IBR Registration Initiative

Read here: Full Announcement | Overview

NERC developed two easy-to-follow infographics that help entities involved in the Inverter-Based Resource (IBR) Registration Initiative by making the registration process clear and accessible. NERC recognizes the critical importance of ensuring that identified entities are integrated smoothly and educated on the scope and role of NERC and its Regional Entities, collectively known as the Electric Reliability Organization (ERO) Enterprise.

These resources are part of a broader effort to welcome new participants into the ERO Enterprise and provide the tools and guidance needed to support reliability and compliance from the start.



TEXAS RE
Ensuring electric reliability for Texans

Talk with Texas RE

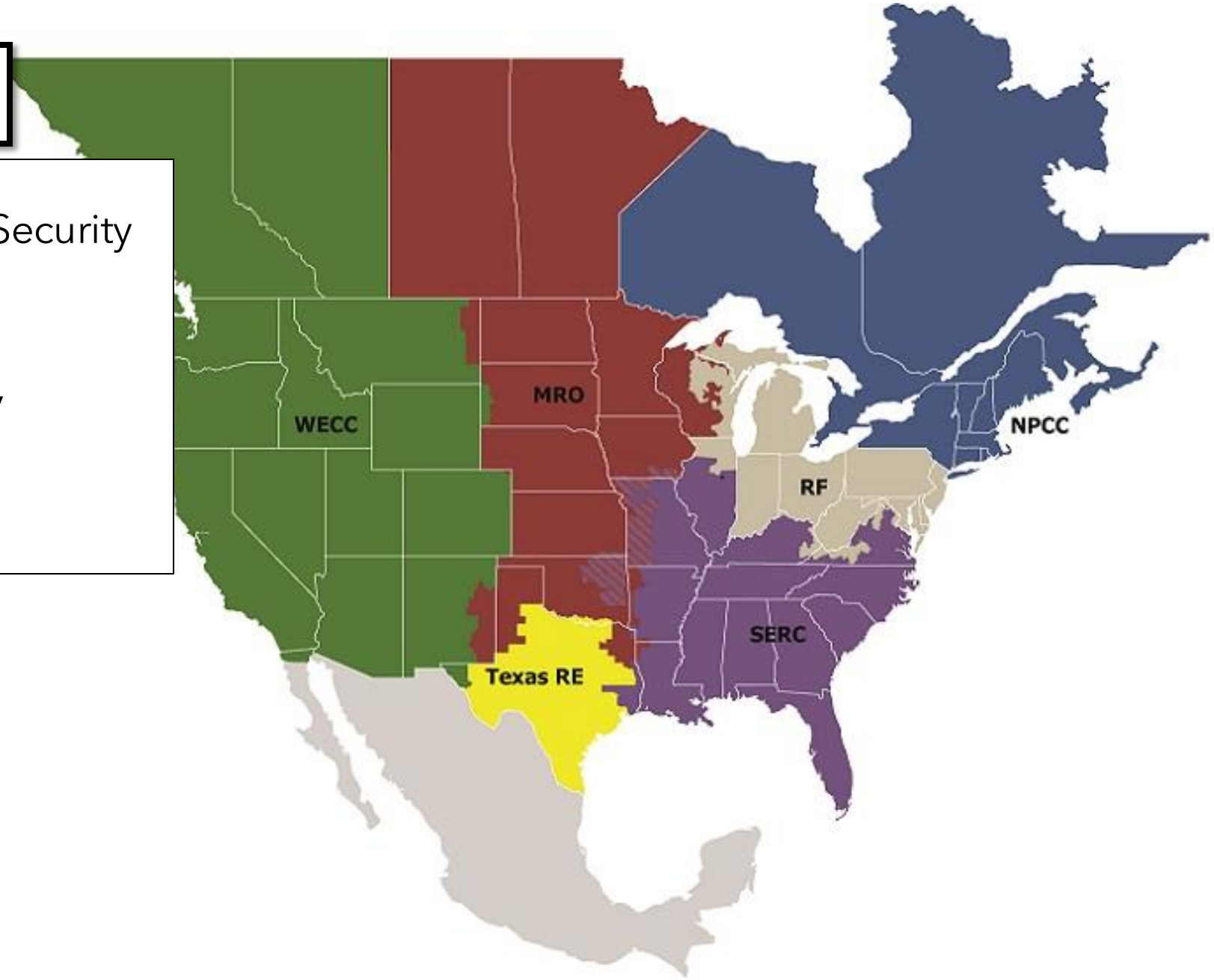
- Extreme Weather Response Risk, 7/22
- Modeling and Model Verification, 7/30
- Cybersecurity Threats, 8/5
- CIP-008-3, 8/19

WECC Reliability & Security Workshop

- October 14-15

Reliability & Security Oversight Update

- August 21

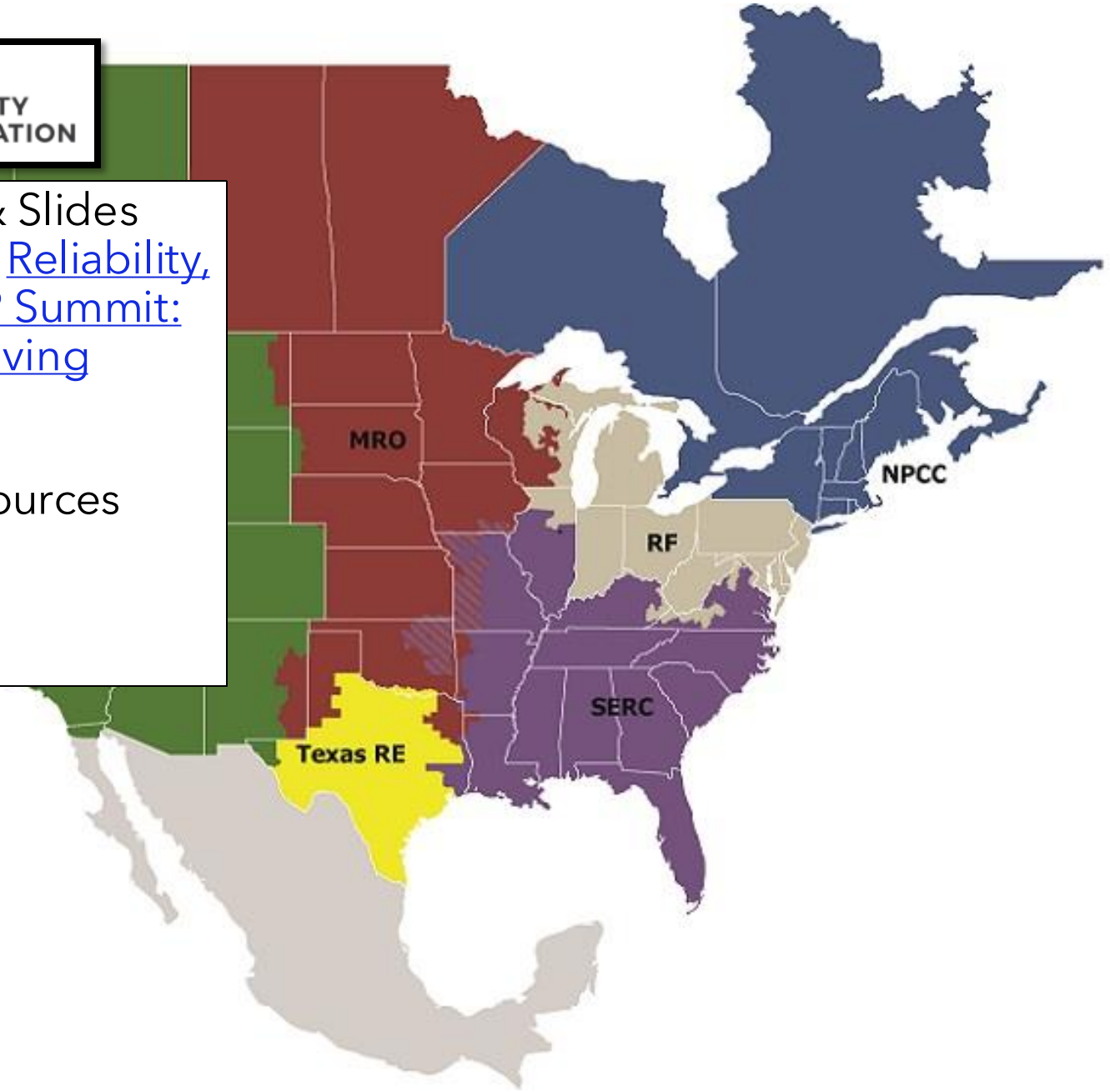


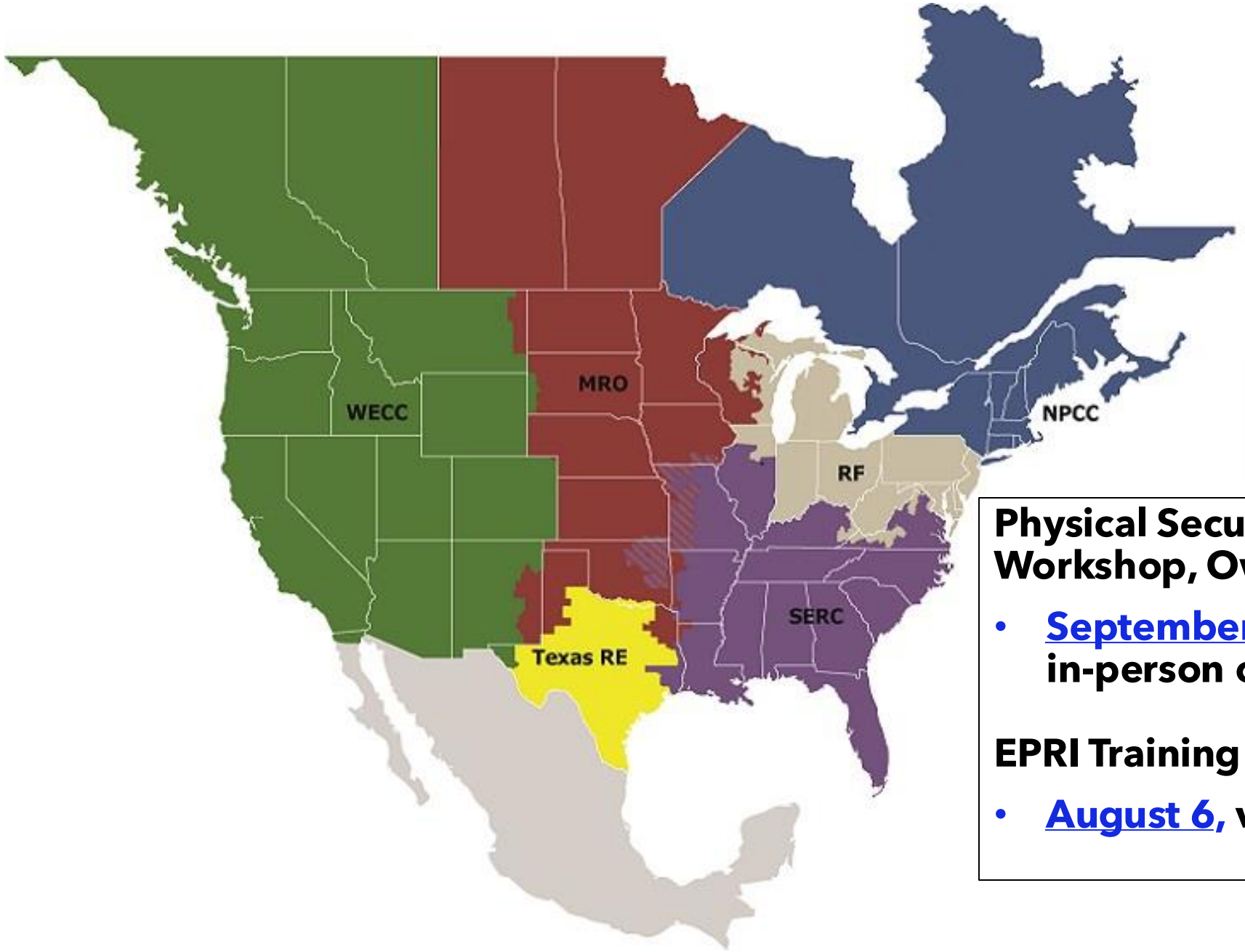
MIDWEST RELIABILITY ORGANIZATION

ICYMI: Recording & Slides Available [Reliability, Security, and CMEP Summit: Navigating the Evolving Power Grid]

Inverter-Based Resources (IBR) Webinar

- [August 13]



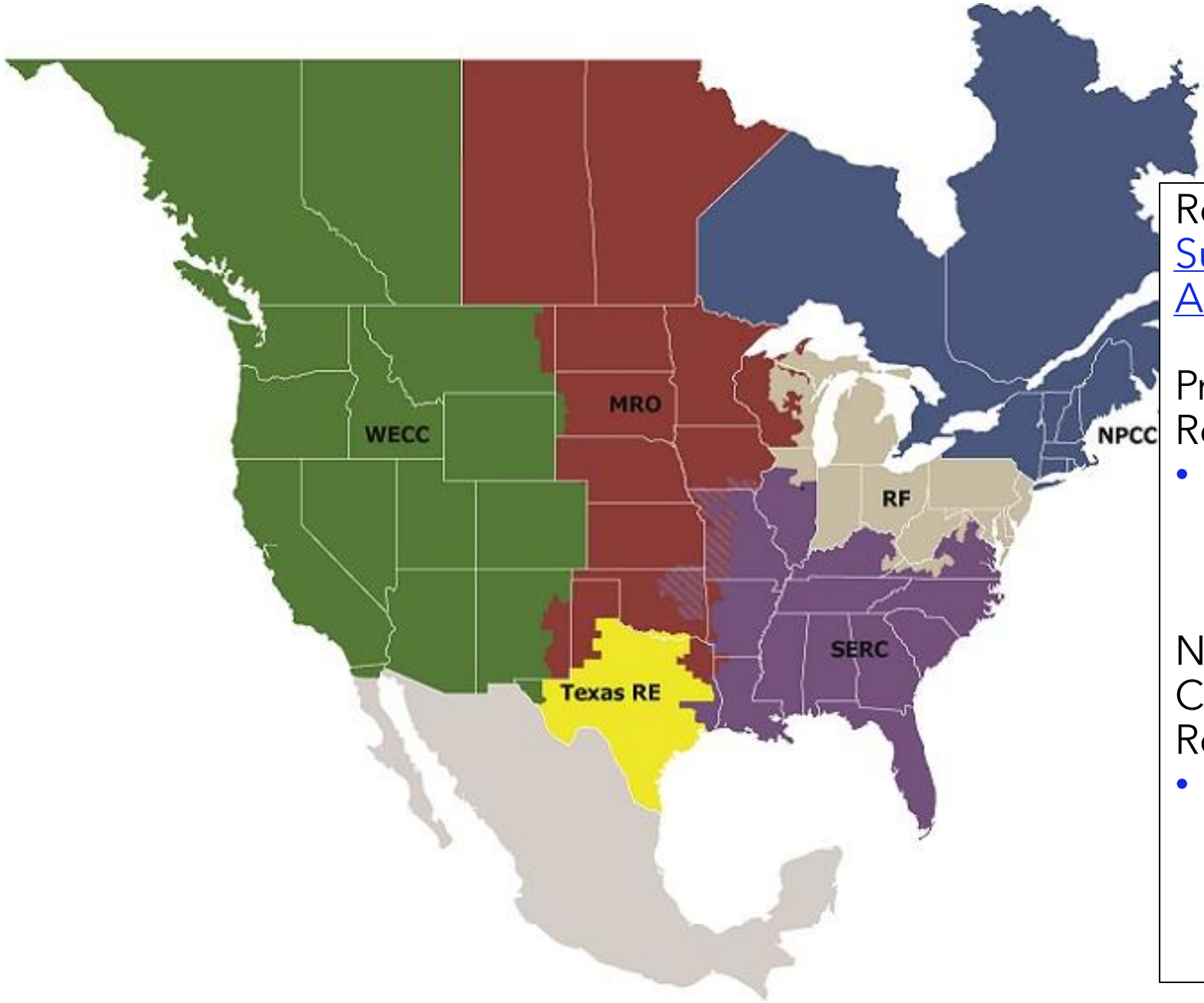


Physical Security Workshop, Owensboro, KY

- **September 9 - 11, in-person only**

EPRI Training

- **August 6, virtual**



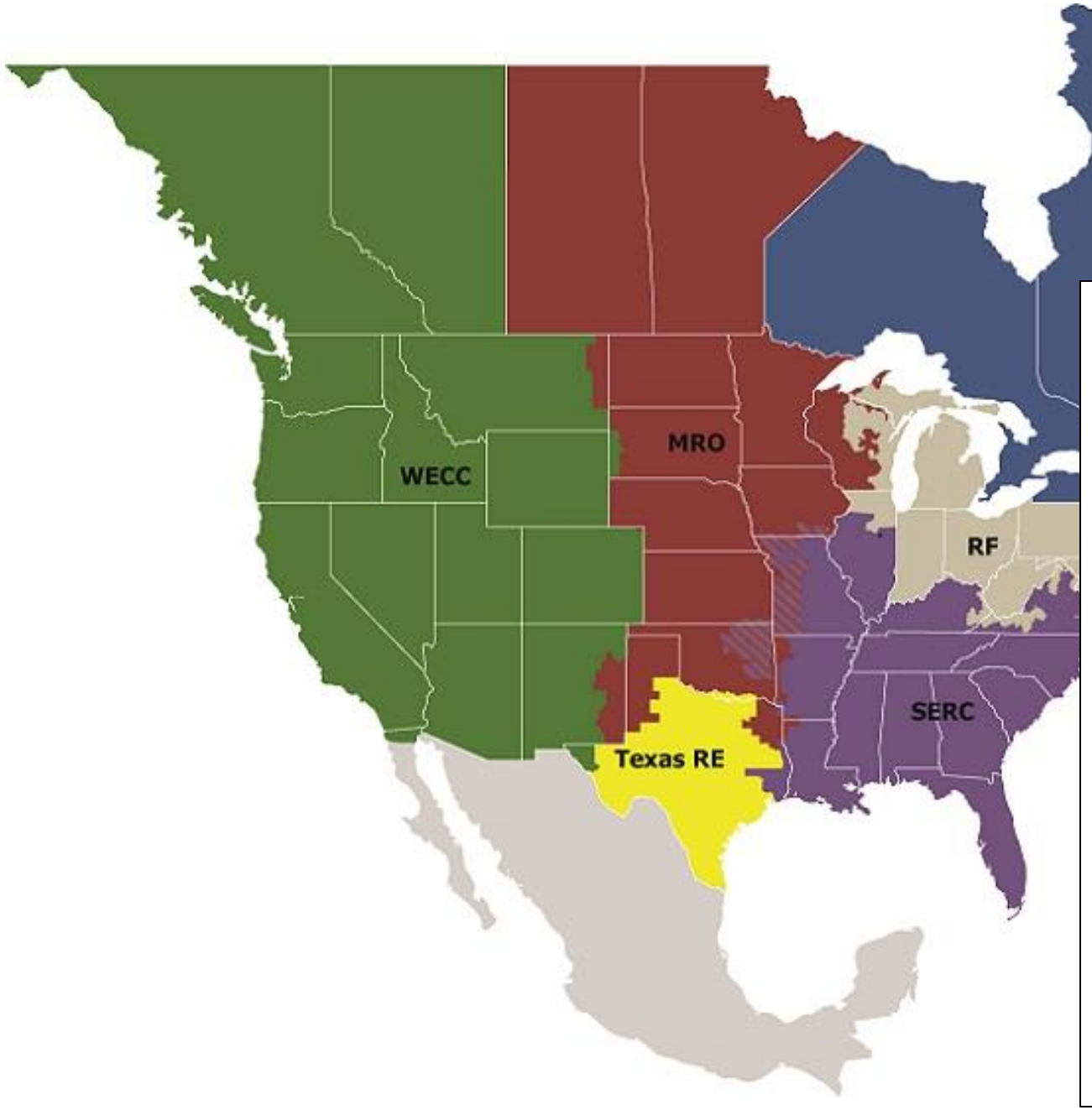
Released Regional Summer Reliability Assessment

Presentation Recording Available:

- CIP ERT v9.0 Updates

NPCC Fall 2025 Compliance and Reliability Conference

- November 5 - 6 hybrid



RELIABILITYFIRST

Next *Tech Talk with RF*

- **August 18**

Protection System Workshop, Webinar

- **August 6**

Human Performance Workshop, Webinar

- **August 7**

CIP Low Impact Workshop, in-person Cleveland, OH

- **August 19-21**

Fall Reliability & Security Summit in-person Washington, D.C.

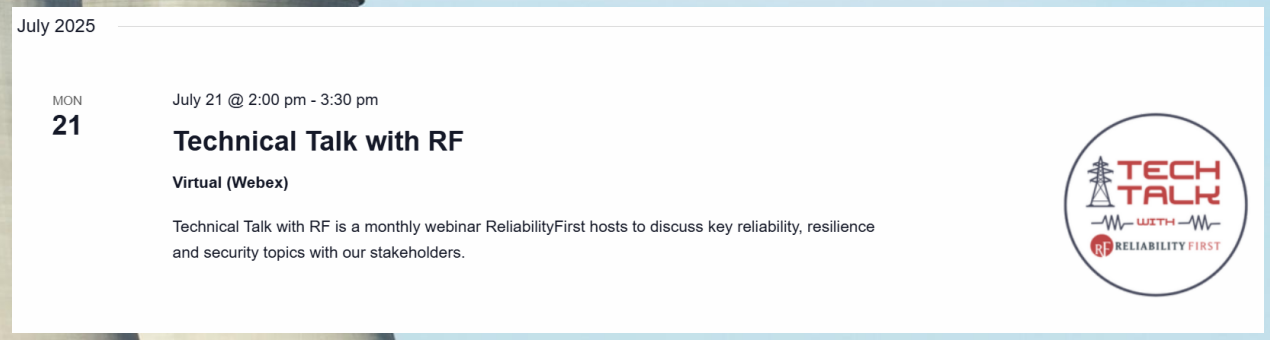
- **September 8 - 10**

TECH TALK REMINDER

FORWARD TOGETHER RELIABILITYFIRST

Tech Talk with RF announcements are posted on our calendar on www.rfirst.org under Calendar

CLICK HERE



FORWARD TOGETHER RELIABILITYFIRST

TECHNICAL TALK WITH RF

Join the conversation at

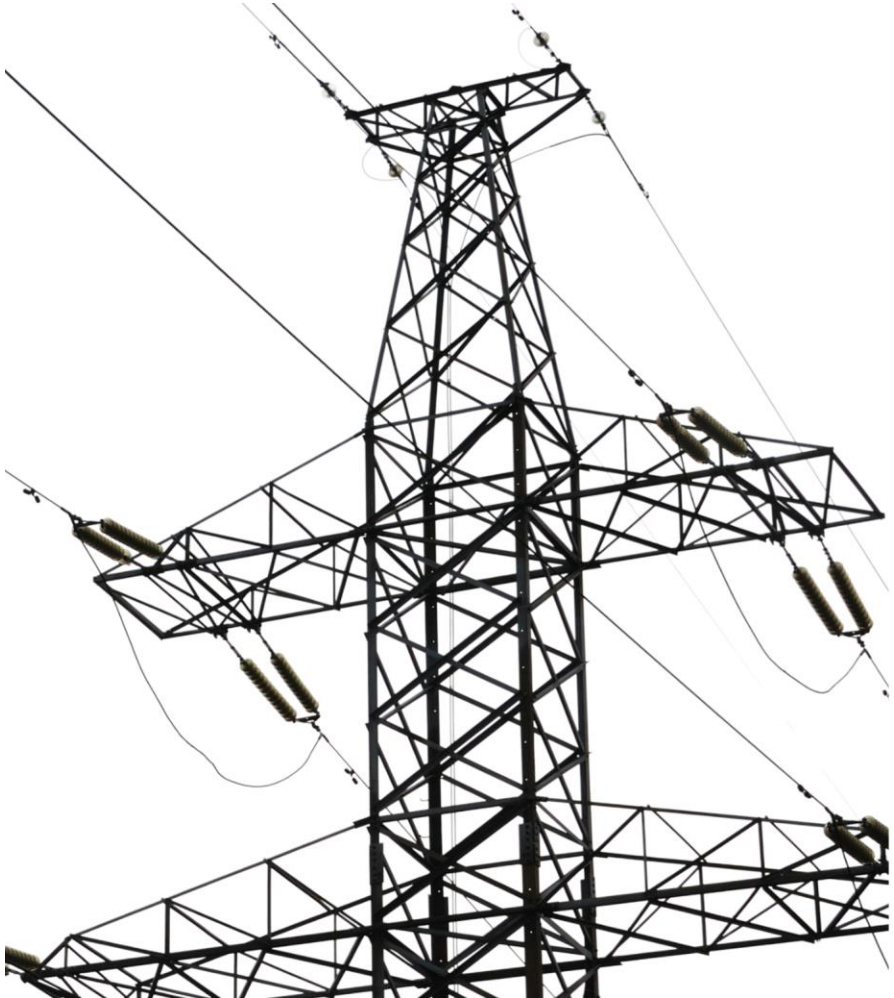
SLIDO.com

#TechTalkRF

Anti-Trust Statement

It is ReliabilityFirst's policy and practice to obey the antitrust laws and to avoid all conduct that unreasonably restrains competition. This policy requires the avoidance of any conduct which violates, or which might appear to violate, the antitrust laws. Among other things, the antitrust laws forbid any agreement between or among competitors regarding prices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that unreasonably restrains competition.

It is the responsibility of every ReliabilityFirst participant and employee who may in any way affect ReliabilityFirst's compliance with the antitrust laws to carry out this policy.



AGENDA

NERC MODERNIZATION OF STANDARDS PROCESSES AND PROCEDURES (MSPP) TASK FORCE

- **MATT HOLTZ,** MSPP TASK FORCE MEMBER, INVENERGY
- **TODD BENNETT,** MSPP TASK FORCE MEMBER, ASSOCIATED ELECTRIC (AECI)

HAMILTON LIBERTY WINTERIZATION SITE VISIT: BEST PRACTICES & LESSONS LEARNED

- **BRIAN ZECHMAN,** GENERAL MANAGER, HAMILTON LIBERTY PLANT
- **JOHN WOLFF,** SR. LEAD ENGINEER, GENERATION, PJM

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

MSPP Task Force

Modernization of Standards Processes and Procedures (MSPP) Task Force

Matt Holtz and Todd Bennett, MSPP Task Force Members
Tech Talk with RF
July 21, 2025

Need for Transformational Change

Transformational changes to the standard development process would enhance NERC's ability to address risks associated with grid transformation.

Incremental enhancements to the standard development process have marginally improved efficiency, but recent events underscore the need for transformational change.

Transformational change will help ensure that stakeholder participation in the standard development process continues to be robust and meaningful.

Survey results indicate broad agreement with scope of task force.

Guiding Principles

Transform and Modernize the Process

Re-envision a modernized standard development process to address evolving risks

Create Efficiencies

Identify areas of opportunity and recommendations to save time and remove redundant steps in the current process

Develop a Trusted Process

Provide clear opportunities for stakeholder input, due process, openness, and balance of interests

Inputs and Considerations

Previous standards improvement efforts

Section 321 lessons learned

Comparison of standards processes

Implementation impact

Stakeholder input

Activities to Date

- *Task force established*
- *Developed and published scope document*
- *Aligned on goals and objectives*
- *Developed comprehensive communications and outreach plan*
- *Identified initial areas of opportunity to address pain points in the process*
- *Released a public survey; engaged with external stakeholders*
- *Drafted a white paper of potential improvement opportunities*

Potential Improvement Opportunities

Standard Initiation

- Implement a biannual review and prioritization process
- Centralize the process through the Reliability and Security Technical Committee

Standard Development

- Form a new group or panel to coordinate standards drafting with AI assistance
- Outsource standards drafting
- Implement incremental process changes

Balloting

- Create a standing ballot body
- Implement a notice and comment process for proposed standards
- Implement incremental changes to Registered Ballot Body framework

White Paper Rollout

July 22

Public Comment Period Open

August 27

Public Comment Period Closes

Week of August 4th

"Drop-in" Q&A Sessions

July - August

Industry Outreach (Regional Entity events, NERC Standing Committees, MRC, Board, Task Force outreach etc.)

MSPPTF Process Timeline

Q2 2025

- Developed scope document
- Identified areas for improvement
- Solicit stakeholder input

Q3 2025

- Develop white paper of potential improvement opportunities
- Solicit stakeholder input
- Develop draft recommendations

Q4 2025

- Solicit stakeholder input
- Finalize recommendations

Q1 2026

- Present recommendations to NERC Board

Communications and Engagement

- Individual task force engagement
- General communications to and broad engagement with industry and stakeholders
- Updates to NERC's Board, MRC, Standing Committees, and Industry Groups

Commitment to Robust External Engagement

- Almost 200 responses to the industry survey
  - Summary of themes from the survey responses will be shared with the white paper
- More than 500 stakeholders engaged by individual task force members
  - Through various committee meetings, conferences, workshops and other means
- Upcoming webinars and Q&A sessions associated with the open comment period
- Ongoing schedule for meeting with stakeholders and soliciting input prior to the task force's Q1 2026 presentation to the NERC Board of Trustees

Key Resources

- Several resources are available to keep industry and stakeholders informed throughout this critical project:
  - MSPPTF Scope
  - MSPPTF Roster
  - MSPP FAQs
  - MSPPTF External Engagements
- Resources and forthcoming engagements are posted on the MSPPTF webpage (under the Initiatives tab NERC homepage).
- The MSPPTF publishes a monthly update at the beginning of each month to provide an overview of recent activity and upcoming work.

Monthly Update

MSPP Task Force

Modernization of Standards Processes & Procedures

The speed at which risks to the reliability, security, and resilience of the bulk power system are emerging during the transformation to a decentralized, digitized, and decarbonized grid is outpacing industry's ability to develop, enhance, and implement Reliability Standards under the existing processes and procedures. At its February 2025 meeting, the NERC Board of Trustees passed a resolution forming an industry-led Modernization of Standards Processes and Procedures Task Force (MSPPTF) to undertake a strategic review of NERC's Reliability Standards development process. The task force will present proposed recommendations to the NERC Board in February 2026.

2025 June Update

This is the second in a series of updates that summarize ongoing activities related to the MSPP initiative.

Background

The MSPPTF is focusing on transforming current processes and procedures to ensure that standards can be developed more efficiently and effectively to better address the complex and rapidly evolving risk landscape. It is considering the spectrum of the current standards program, including processes, balloting, drafting, and the roles of team and committee members. The MSPPTF is also reviewing prior standard improvement efforts and recent Section 321 actions for lessons learned.

Key Activities

Since the last update, the MSPPTF has identified and prioritized three areas of opportunity for improvement in the standards process and is conducting a deep dive into: 1) standards initiation/standard authorization requests, 2) standards development/drafting, and 3) balloting. The task force is meeting this month to develop an initial outline of recommended changes.

Stakeholder Outreach

The MSPPTF also released a survey that provides stakeholders with the opportunity to offer ideas for consideration to transform current standards processes and procedures. The survey (which is due on **June 5**) is anonymous, and while the task force will not directly respond to comments, survey feedback will be considered as the initial outline of recommended changes is developed. The initial outline will be posted this summer for additional stakeholder input.

The task force continues its comprehensive program to engage and provide updates to stakeholders through public announcements and various open meetings. MSPPTF Chair Greg Ford and Vice Chair Todd Lucas updated the NERC Board of Trustees on MSPPTF activities on May 8, and Todd Bennett updated the Standards Committee (SC) on May 21. Todd Lucas will provide an update at the Joint Reliability and Security Technical Committee/SC/Reliability Issues Steering Committee meeting on June 11. In addition, task force members are conducting outreach to various industry groups to gather informal input as indicated in the timeline below.

Key Resources

Several resources are available to keep industry and stakeholders informed throughout this critical project, including the MSPP webpage (located under the Initiatives tab on the NERC homepage), the MSPPTF Scope, the MSPP Roster, and MSPP FAQs.

Questions? Please email mspp@nerc.net.

Questions and Answers

Questions?
Email mspp@nerc.net

RF WINTERIZATION PROGRAM AND HAMILTON LIBERTY SITE VISIT

Brian Zechman, General Manager, Hamilton Liberty Plant

John Wolff, Sr. Lead Engineer, Generation, PJM

July 21, 2025, Technical Talk with RF

AGENDA

HISTORY OF RF WINTERIZATION PROGRAM

PJM COLLABORATION

EXAMPLE PRACTICES

HAMILTON LIBERTY SITE VISIT

HISTORY OF RF PROGRAM

- Started in 2014
- Voluntary
- RF Assist Visit
- Outside of Compliance
- Sharing Best Practices
- 20 Site Visits in 2024 – 2025
- Survey

1.0	PLANT WINTERIZATION - OVERALL CONCERNS & ISSUES
1.1	How many boiler-turbine-generator enclosures are of the outdoor type, i.e., boiler room and turbine-generator room are not enclosed and directly exposed to weather conditions?
1.2	How many boiler-turbine-generator enclosures are of the semi-outdoor type, i.e., boiler room partially enclosed with portions directly exposed to weather conditions but turbine generator room fully enclosed?
1.3	How many boiler-turbine-generator enclosures are of the indoor type, i.e., boiler room and turbine-generator room are fully enclosed and not directly exposed to weather conditions?
1.4	Due to the applicable type of configuation, describe any past problems (trips, derates, fail-to-start, etc.) caused by extreme weather and list the amount of megawatts impacted.
1.5	Does your entity presently have a plant winterization plan for all generating facilities?
1.6	Briefly describe the training program or exercise which prepares plant personnel for extreme cold weather conditions.
1.7	What plant personnel are specifically assigned or responsible for the plant winterization plan related to directing key activities before, during and after severe winter weather events?
1.8	To what level of corporate management is the plant winterization plan communicated?
1.9	What is the status of the your plant winterization plan?
1.11	What is your facility(ies) minimum starting temperature(s)?
1.12	What is your facility(ies) minimum design/operating temperature(s) and how long can the facility operate at that temperature?

PJM COLLABORATION

- PJM began collaborating with RF during the 2023/2024 winter season for winter readiness site visits. Only a few sites were visited during that winter.

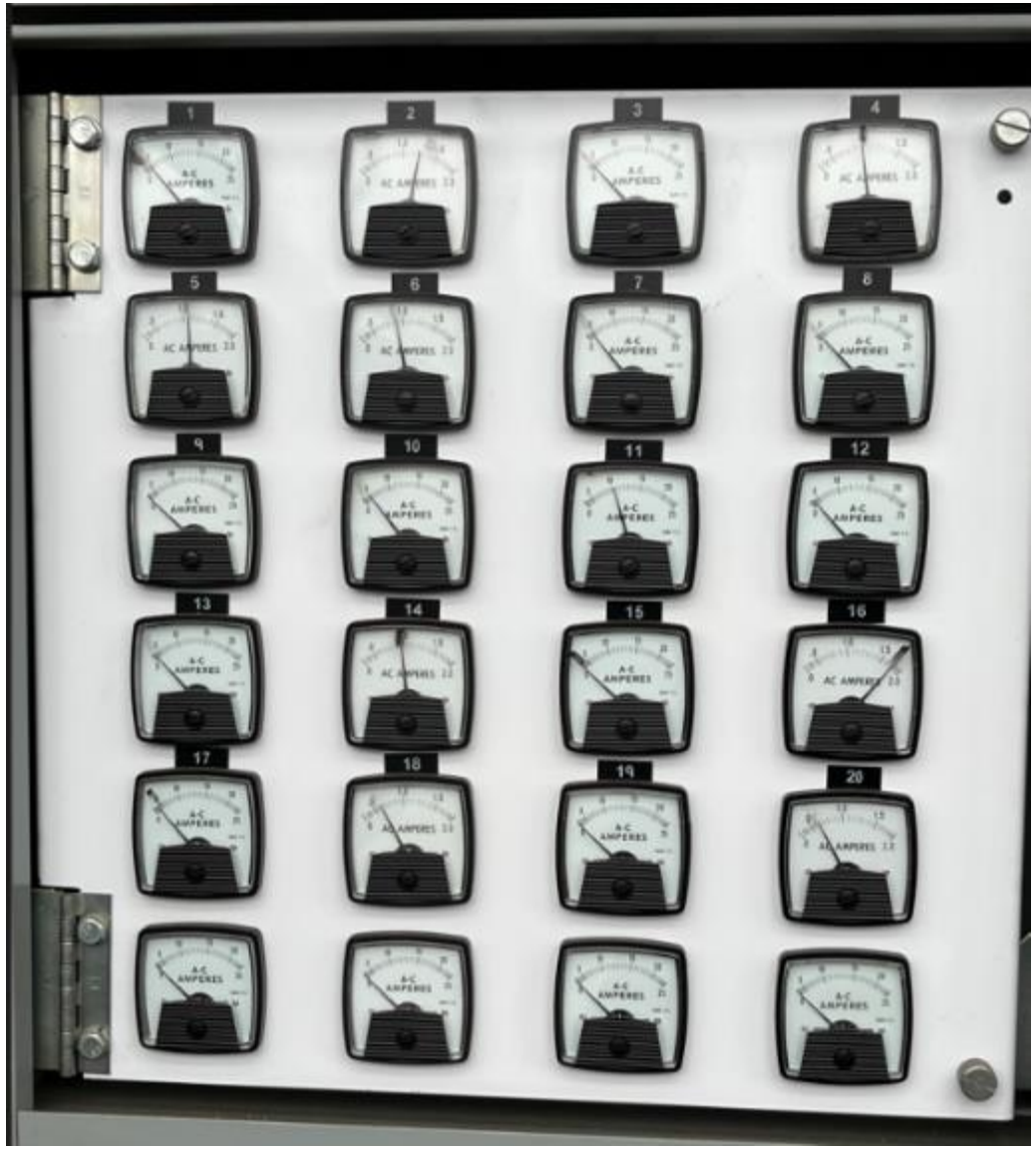
- During the 2024/2025 winter season, PJM supported 14 of the 20 different site visits.
  - ❖ Visits were supported by PJM personnel from multiple groups within the organization.
  - ❖ Visits were opened with an "Operational Basics" presentation to provide a high-level overview of how PJM functions and the roles of GO/GOP in the overall grid or Bulk Power System (BPS). This proved very beneficial to bridge the gap between GO/GOP and PJM as many have third party marketing companies that interface directly with PJM.
- Site visits included coal-fired power plants, simple and combined cycle power plants, and renewables, including wind and solar.

HIGHLIGHTS OF PJM'S PRESENTATIONS

- PJM overview, main focus and key statistics
- Overview of the grid and interaction between PJM and members
- Generation dispatch operations and scheduling
- Transmission system operations
- Control actions for contingencies

Overall, the presentations generated good discussion, and in some cases, spurred follow up training sessions.

HEAT TRACE LOADING



TEMPORARY WINDBREAKS

HAMILTON LIBERTY POWER PLANT

HAMILTON LIBERTY POWER PLANT

- 800 MW nominal natural gas fired combined cycle
- Commercial operation began: 2016
- Located in: Towanda, Pennsylvania
- Owned/Operated by: Cogentrix

AIR FILTER INLET HEATING

PERMANENT ENCLOSURE AROUND PUMPS

WINTER SUPPLIES

LOCAL VISUAL INDICATION

HEAT TRACE MONITORING PANEL

END OF LINE HEAT TRACE INDICATION

HEAT TRACE TESTING

PANEL #: U10 ACC/MCC EAST SIDE

DATE: 10/1/2022

CRKT #	DWG CUR OPER	ACT CUR OPER	MEGGER (M OHM)	Leakage Current	TYPE	work order#
1	10.3	6.4	550		MIQ	12941 (closed)
2	**	5.3	550		2 BOXES	
3	13	13.7	550		HTSX	
4	5.9*	12.7	550		HTSX&BOX	
5	17.2	15.1	550		HTSX	
6	*	4.1	550		BOX	
7	6	15.4	550		HTSX	
8	13.85	14.9	550		HTSX	
9	10.4	13.8	6.4		HTSX	
10	15.1	10.2	550		BSX	
11	15.1	9.3	550		BSX	
12	5.25	4.8	550		HTSX	
13	10.8	13.4	550		BSX	
14	11.1	6.3	550		BSX	
15	1.3	1.3	550		HTSX	
16	8.9	14.3	550		HTSX	
17	13	11.7	550		HTSX	
18	4.6	4.6	273		MIQ	12942 (closed)
19	*	8	550		BOX	
20	0.6*	0.4	550		BOX&HTSX	
21	*	4.6	550		BOX	
22	1.9*	4.3	550		BOX&HTSX	
23	14.8	18	550		HTSX	
24	12.9	16.3	550		HTSX	
25	*	0.8	550		BOX	
26	5.1	8.4	550		HTSX	
27	3.7	4.5	550		HTSX	
28	*	15.1	0.7		BSX	new work order 15183
29	SPARE					
30	SPARE					
31	SPARE					
32	SPARE					
33	*	3.3	550		BSX	
34	SPARE				?	
35	SPARE					
36	SPARE					

*= Inst Encl on crkt with no drawing of Encl

51%-70% of Dwg Cur Oper value

>50% of Dwg Cur Oper value

WIRELESS REMOTE TEMPERATURE SENSORS

Ethernet Gateway

Connect Your IoT Sensor Network to the Internet

Monnit ALTA® Ethernet Gateway and ALTA XL® Ethernet Gateway allow ALTA Wireless Sensors to communicate with the iMonnit™ Wireless Sensor Monitoring and Notification System without the need for a PC. Simply provide power and plug the ALTA Ethernet Gateway or ALTA XL Ethernet Gateway into an open Ethernet port with an Internet connection. Then it will automatically connect with our online servers, providing the perfect solution for commercial locations with an Internet connection.

The ALTA XL Ethernet Gateway features a powerful wireless transceiver with up to 1 Watt transmission strength and an amplified receiver. The ALTA XL Ethernet Gateway can send and receive data communications with ALTA Sensors 2,000+ feet through 18+ walls in commercial building environments.

Gateway Features

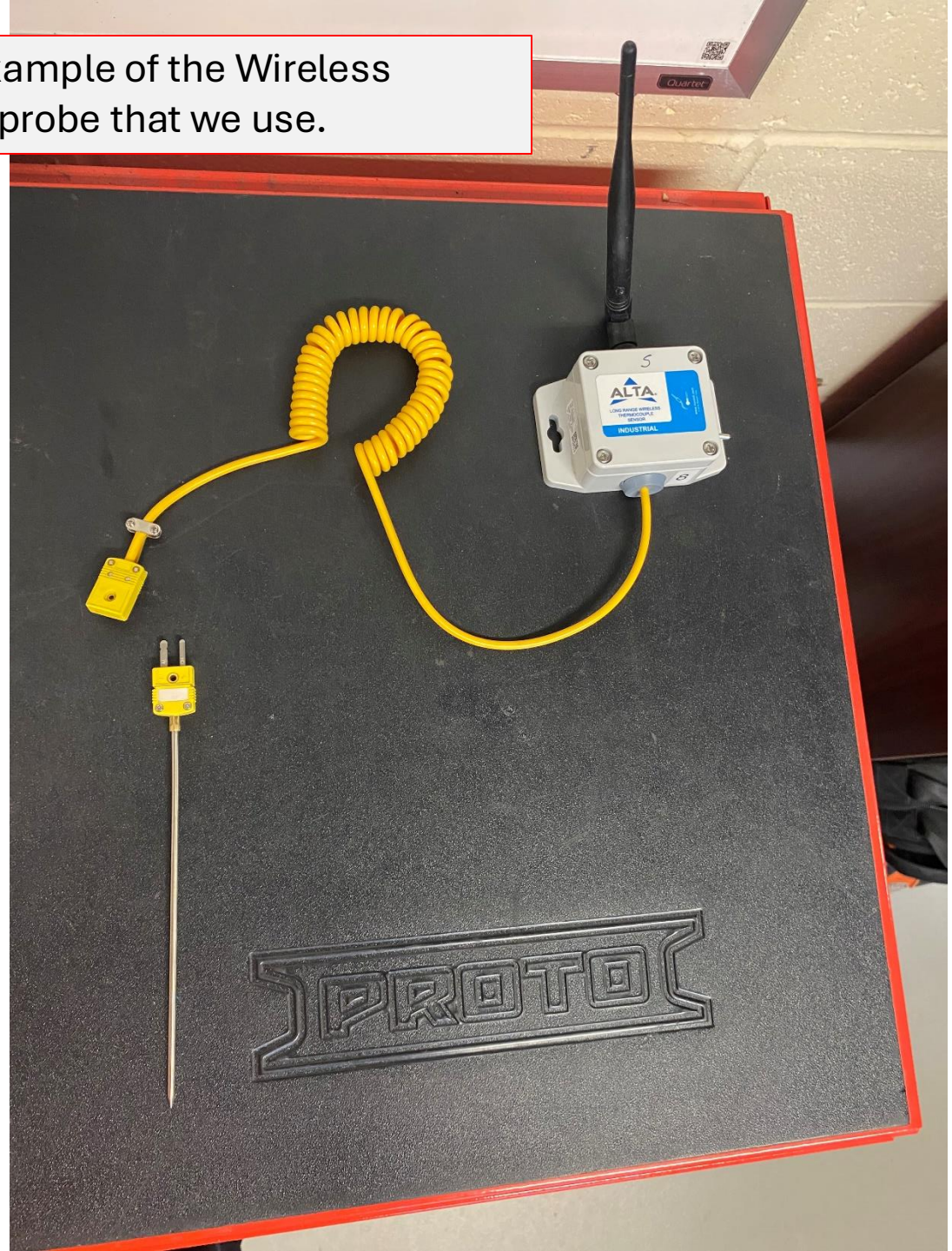
- Updated Modbus TCP-IP and SNMP to support new sensor profiles
- Internet MIB (management information base) is implemented on the gateway for industry tools to auto-discover the gateway and understand its features
- Enhanced SNMP walk to only show data for valid OIDs (sensor data that exists in the system)
- SNMP Interface: in addition to integers, the gateway has additional OIDs to present the same data in HEX and string (human-readable) format

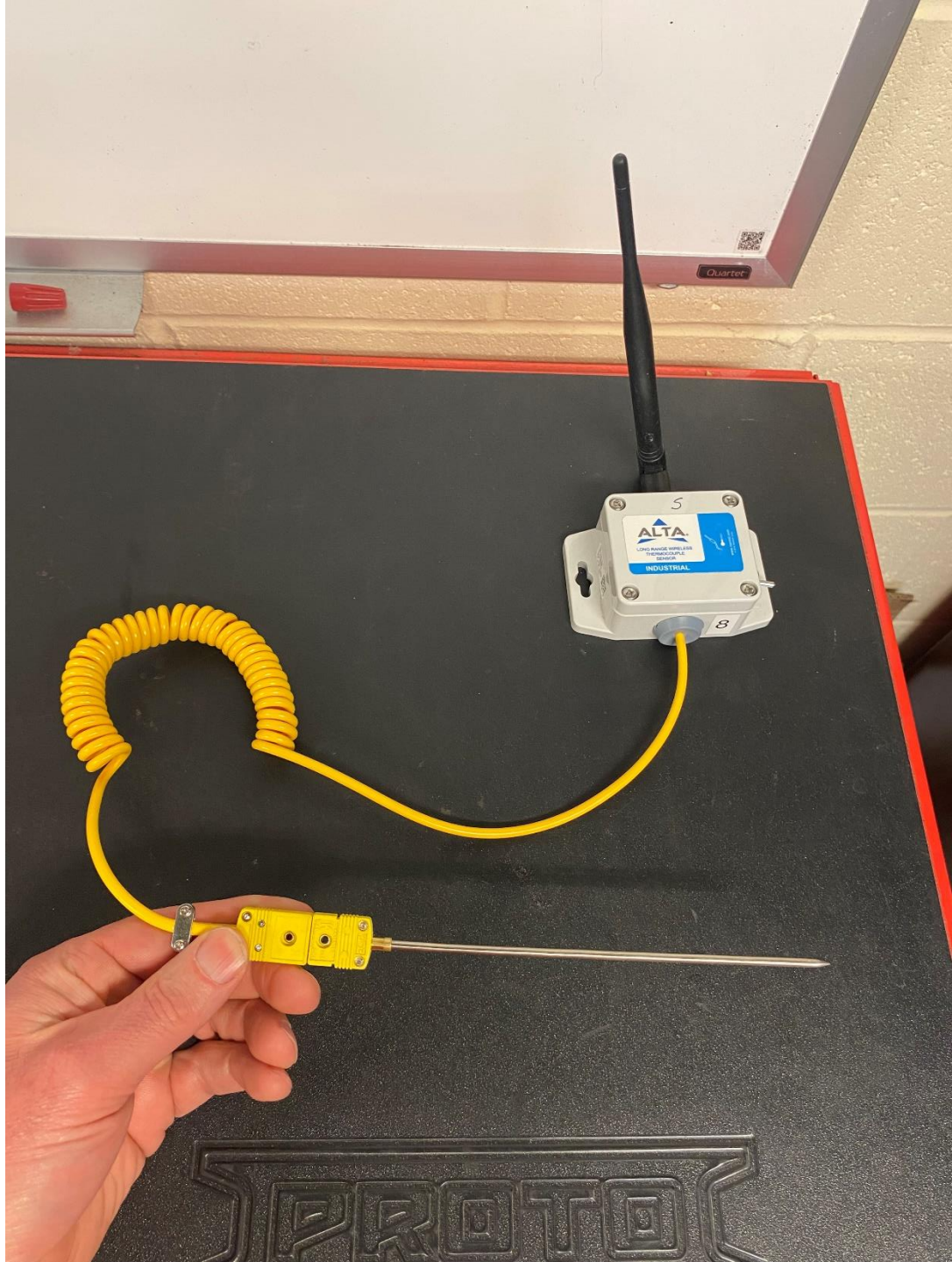
**If you plan to use an alternative interface to the sensors other than iMonnit.com (such as Modbus TCP, SNMP, the direct push of data from gateway to on-premises, or third-party server), the purchase of an unlock code will allow free roaming of the data from the hardware.*

801-561-5555
Call us, if you have any questions.

Gateways XL | Gateways

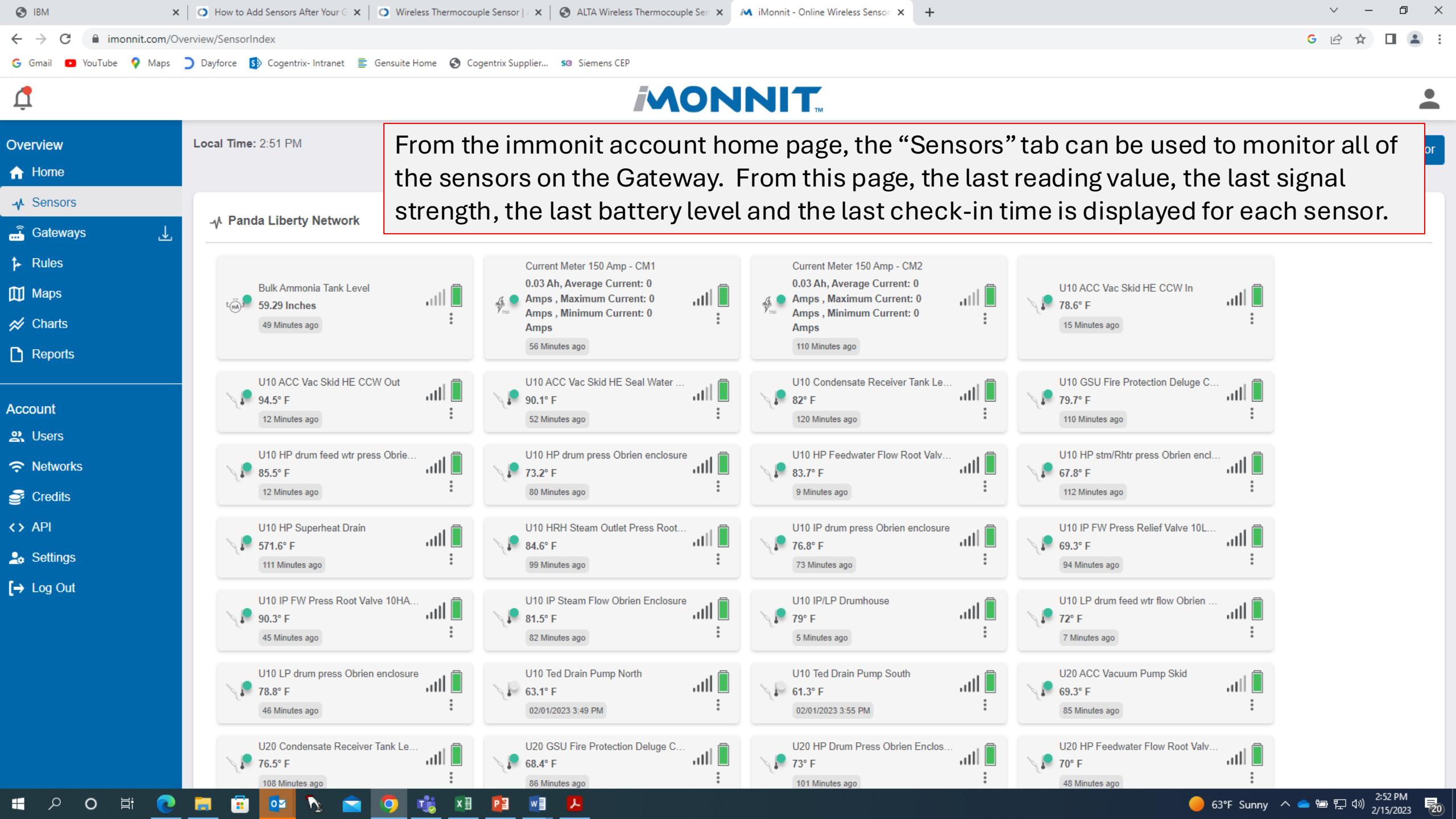
This is an example of the Wireless sensor and probe that we use.





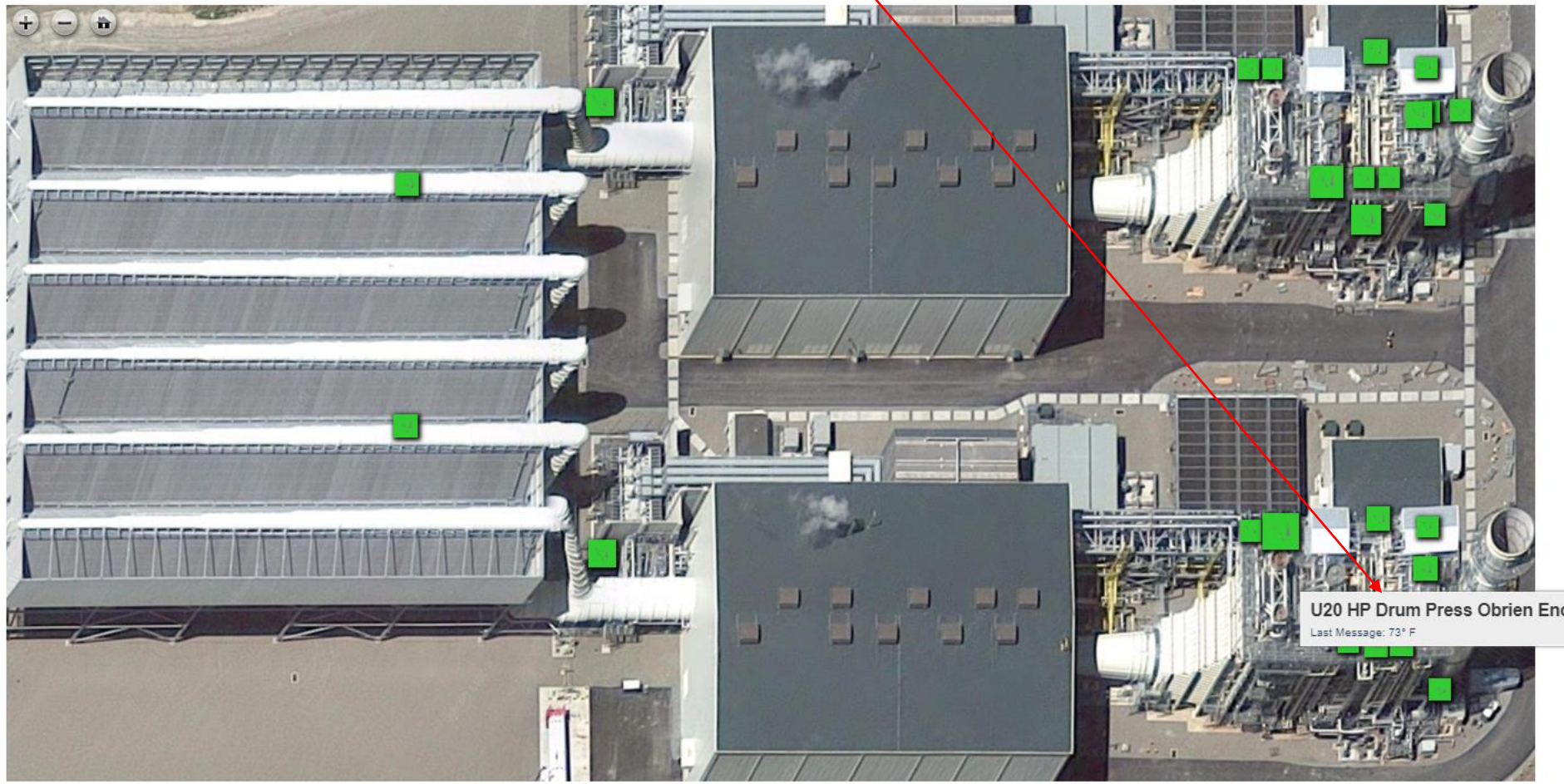
This is an example of a probe installation on a pipe with aluminum clad insulation.

This is an example of a probe installation under a root valve insulated bonnet cover.


IBM
How to Add Sensors After Your G
Wireless Thermocouple Sensor |
ALTA Wireless Thermocouple Sen
iMonnit - Online Wireless Sensor
imonnit.com/Overview/SensorIndex
Gmail
YouTube
Maps
Dayforce
Cogentrix- Intranet
Gensuite Home
Cogentrix Supplier...
Siemens CEP
iMONNIT
Overview
Home
Sensors
Gateways
Rules
Maps
Charts
Reports
Account
Users
Networks
Credits
API
Settings
Log Out
Local Time: 2:51 PM
From the immonit account home page, the “Sensors” tab can be used to monitor all of the sensors on the Gateway. From this page, the last reading value, the last signal strength, the last battery level and the last check-in time is displayed for each sensor.
Panda Liberty Network
Bulk Ammonia Tank Level
59.29 Inches
49 Minutes ago
Current Meter 150 Amp - CM1
0.03 Ah, Average Current: 0 Amps , Maximum Current: 0 Amps , Minimum Current: 0 Amps
56 Minutes ago
Current Meter 150 Amp - CM2
0.03 Ah, Average Current: 0 Amps , Maximum Current: 0 Amps , Minimum Current: 0 Amps
110 Minutes ago
U10 ACC Vac Skid HE CCW In
78.6° F
15 Minutes ago
U10 ACC Vac Skid HE CCW Out
94.5° F
12 Minutes ago
U10 ACC Vac Skid HE Seal Water ...
90.1° F
52 Minutes ago
U10 Condensate Receiver Tank Le...
82° F
120 Minutes ago
U10 GSU Fire Protection Deluge C...
79.7° F
110 Minutes ago
U10 HP drum feed wtr press Obrie...
85.5° F
12 Minutes ago
U10 HP drum press Obrien enclosure
73.2° F
80 Minutes ago
U10 HP Feedwater Flow Root Valv...
83.7° F
9 Minutes ago
U10 HP stm/Rhtr press Obrien encl...
67.8° F
112 Minutes ago
U10 HP Superheat Drain
571.6° F
111 Minutes ago
U10 HRH Steam Outlet Press Root...
84.6° F
99 Minutes ago
U10 IP drum press Obrien enclosure
76.8° F
73 Minutes ago
U10 IP FW Press Relief Valve 10L...
69.3° F
94 Minutes ago
U10 IP FW Press Root Valve 10HA...
90.3° F
45 Minutes ago
U10 IP Steam Flow Obrien Enclosure
81.5° F
82 Minutes ago
U10 IP/LP Drumhouse
79° F
5 Minutes ago
U10 LP drum feed wtr flow Obrien ...
72° F
7 Minutes ago
U10 LP drum press Obrien enclosure
78.8° F
46 Minutes ago
U10 Ted Drain Pump North
63.1° F
02/01/2023 3:49 PM
U10 Ted Drain Pump South
61.3° F
02/01/2023 3:55 PM
U20 ACC Vacuum Pump Skid
69.3° F
85 Minutes ago
U20 Condensate Receiver Tank Le...
76.5° F
108 Minutes ago
U20 GSU Fire Protection Deluge C...
68.4° F
86 Minutes ago
U20 HP Drum Press Obrien Enclos...
73° F
101 Minutes ago
U20 HP Feedwater Flow Root Valv...
70° F
48 Minutes ago
63°F Sunny
2:52 PM
2/15/2023

From the “Maps” tab, we created a map of the Plant. Each wireless sensor was added to this map to show the location within the plant where the sensor is installed.

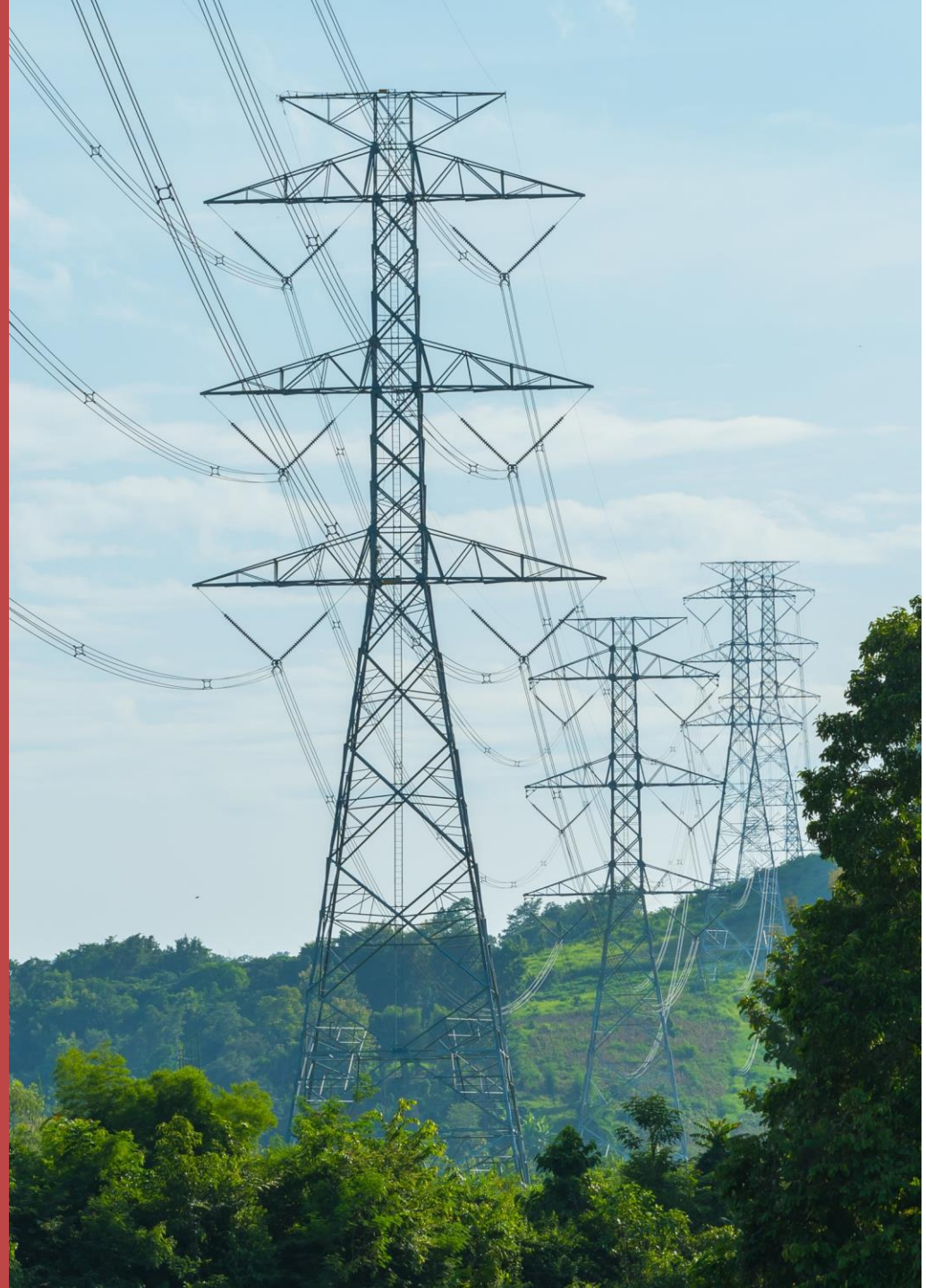
When you hover over a sensor icon with your mouse pointer, the sensor name and last reading will be displayed.



P&ID CROSS-REFERENCE

	A	B	C	D	E	F	G	H	I	J	K
1	Thermon Heater Number	P&ID	Instrument Enclosure if Applicable	Description	Panel Number	Circuit Breaker #	Panel Location	Power Connection Location	Replaced/ Repaired Info	DWG Current	Actual Current
2	1	00MD0140-SH2 00MD0155-SH1		Raw water supply line 00SGX01BR001 from raw water tank connection N6, on 00MD0140-SH2, to electric pump suction line 00SGX01BR011 and diesel pump suction line 00SGX01BR003, on 00MD0155-SH1	00BLA06	1	Water Treatment Building MCC	South of Water Treatment Building 4' Elevation WT-3		16.5	10.4
16	16	00MD0142-SH1		Demineralized water tank outlet line 00GHC10BR001 from tank connection N10 to demin forwarding pump inlet line 00GHC10BR002, in water treatment building	00BLA06	8	Water Treatment Building MCC	On demin water tank box WT-20 3' elevation.	water in cable. Baked out and siliconed end of cable. 2024 wo14333 closed	3.7	2.1
17	17	00MD0140-SH2		Raw water / firewater tank line 00LCA25BR004 from tank connection N11 to underground connection on line 00LCA25BR003 from unit 10 and 20 condensate reject lines.	00BLA06	6	Water Treatment Building MCC	South of H2O treatment building box WT-1 3' elevation - Fuel gas filter seperator yard box WT-7A 3' elevation		1.8	2.4
18	18	10MD0151-SH2		HRSG blowdown sump pumps discharge line 10GMA75BR001 from enclosure outlet lines 10GMA15BR001 and 10GMA16BR001 , on 10MD0151-SH2, to underground connection line 00GMA80BR001, on 10MD0151-SH2, in North East corner of HRSG	10BJC06	19	North West Corner of HRSG Ground Level	No Access or no tag			
19	19	10MD0151-SH2		GT inlet evaporative cooler blowdown/drain line 10GMA60BR401 from connection on evap cooler to underground connection on line 10GMA60BR402 to HRSG blowdown sump	10BJD04	29	West Side of HRSG by Stairs Ground Level	CCW skid under intake box 10B-171 10' elevation		2	3.4

COMPRESSED AIR DRYERS



FORWARD TOGETHER RELIABILITYFIRST

QUESTIONS & ANSWERS

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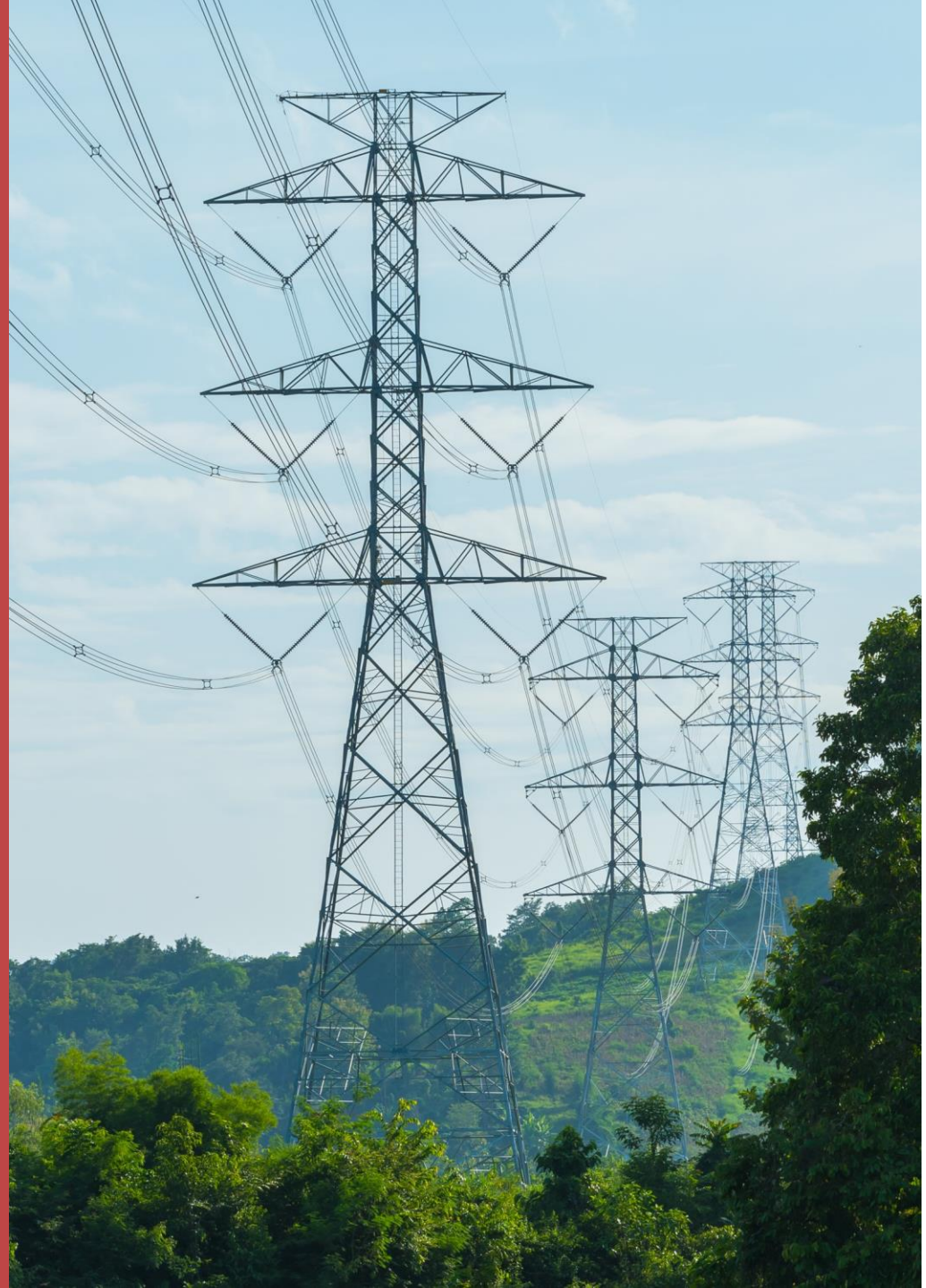
mike.hughes@rfirst.org



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THANK YOU

Join us for our next Tech Talk – August 18th 2-3:30 pm EST

Webinar Link