

# SECURING THE SPARK: INNOVATIONS IN PROACTIVE PHYSICAL SECURITY FOR ENERGY SUBSTATIONS

May 30, 2024

INNOVATION WEBINAR

3:00 - 4:00 p.m. ET

NARUC CPI Innovation  
Webinar



**Moderator: Andrew Fay,**  
Commissioner, Florida  
Public Service  
Commission



**Jim Bruncati**  
New Jersey Board of  
Public Utilities



**Greg Demeter**  
Jersey City, Newark  
Urban Area Security  
Initiative



**Elizabeth Labor**  
FBI Newark



**Brady Phelps**  
Western Electricity  
Coordinating  
Council



**Lonnie Ratliff**  
North American  
Electric Reliability  
Corporation

# About NARUC

- Founded in 1889, the National Association of Regulatory Utility Commissioners (NARUC) is a non-profit organization dedicated to representing the state public service commissions who regulate the utilities that provide essential services such as energy, telecommunications, power, water, and transportation.
- NARUC's members include all 50 states, the District of Columbia, Puerto Rico, and the Virgin Islands.
- Our mission is to serve the public interest by improving the quality and effectiveness of public utility regulation.

# About CPI

- The NARUC Center for Partnerships & Innovation (CPI) builds relationships, develops resources, and delivers training to assist state commissions contending with complex current and emerging issues.
- CPI is funded by cooperative agreements with the U.S. Department of Energy (DOE) and the U.S. Department of Commerce's National Institute of Standards and Technology (NIST).
- NARUC CPI conducts work across five key energy areas and many topics within each: generation; transmission; distribution; customers; and critical infrastructure preparedness, response, and resilience.
- For more information, visit: <https://www.naruc.org/cpi/cpi-home/>



# Upcoming Events

## **Virtual Events:**

- **Regulators' Roundtable: Resource Planning and Regulatory Considerations Amidst the Energy Transition - Part Two** – June 13
- **Hydropower: Regulatory strategies to enhance hydro's contribution to resilience and reliability** – June 20
- **Regulators' Roundtable Series: Wildfires and Affordability: Financial, Regulatory, and Policy Issues for Regulator Part One of Three** – June 24

## **In-Person Events:**

- **Mid-Atlantic regional energy equity workshop** – May 6 – 8, Washington, DC
- **Coal & carbon management site visit** – June 26 – 28, Gillette, WY
- **NARUC Summer Policy Summit** – July 14 – 17, West Palm Beach, FL

## **Securing the Spark: Innovations in Proactive Physical Security for Energy Substations**

**Moderated by:**

Jody Raines, NARUC CPI

(Substituting for Commissioner Andrew Fay, Florida  
Public Service Commission)

# NERC

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

# Broad Overview and NERC CIP Standards

Lonnie J Ratliff, Director Compliance Assurance and Certification, NERC  
May 30, 2024

RELIABILITY | RESILIENCE | SECURITY



- April 16, 2013 – Metcalf Substation attacked
  - Fiber Optic Cables severed
  - Gunfire on 17 transformers
  - ~\$15mil of damage
  - No fingerprints on casings
  - Could have led to serious power outages
- March 2014 – FERC issued Order for Physical Security
  - 90 days to submit to FERC for approval
- November 2014 – FERC Approved CIP-014 Version 1





- Dec 2022 - Moore County, NC
  - Two distribution substations
  - ~40k customers impacted
- 2022 – Northwest
  - 15 attacks – June 2022 – January 2023
  - Predated Moore Co. attack
- Maryland substation planned attacks
- Copper thefts
- Gunfire





- **Modifications to CIP-014**
  - December 2022 - FERC Order to modify risk assessment requirement(s) within CIP-014-3 to provide specificity regarding acceptable approaches to the risk assessment including appropriateness of models, study types, study parameters, documentation of criteria, and documentation of supporting technical rationale.
  - SDT 2023-06 – CIP-014 Risk Assessment Refinement
- **August 2023 – FERC/NERC Physical Security Conference**
  - Best practices versus Compliance Obligations