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

May 30, 2024
INNOVATION WEBINAR
3:00 - 4:00 p.m. ET
• 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/
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

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)
Broad Overview and NERC CIP Standards

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

- 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