NERC CRITICAL INFRASTRUCTURE PROTECTION (CIP)

June 6-7, 2019
EUCI Conference Center
Denver, CO

RELATED EVENT:

NERC FUNDAMENTALS AND COMPLIANCE
June 5-6, 2019 | Denver, CO

“This class is a must do for anyone involved in CIP Physical/Cyber Security. Very glad I came.”

Compliance Superintendent,
Alameda Municipal Power

EUCI is authorized by IACET to offer 1.1 CEUs for the course
OVERVIEW

This session will provide an overview of the NERC CIP Reliability Standards. The electric grid in North America is at the top of the list of critical infrastructures maintained by Presidential Directive by the Department of Homeland Security and it is recognized that the remaining critical infrastructures will not function without a reliable supply of electricity. As a result, cyber and physical security for electric utilities is at the forefront of the legislators and regulators agenda following recent cyber and physical attacks in the US and elsewhere in the world.

To address these risks, the North American Electric Reliability Corporation (NERC) has developed and maintained a set of Critical Infrastructure Protection (CIP) standards that are mandatory and enforceable. These standards have undergone significant change since they were first adopted in FERC Order 706. These standards have been extended to include all Bulk Electric System Assets and their related Cyber Assets each categorized as High, Medium, and Lower Risk assets thereby extending the program to all registered entities and all bulk electric system assets at some level.

This course will provide a deep fundamental understanding of the NERC CIP standards including a history of their development, an understanding of the present standards, and a view of what is coming in future standard development. The course will also provide a detailed overview of each standard, its fundamental purpose, and the intent of each requirement.

Developing programs to meet the intent of the standard is challenging since compliance with the standards requires disciplines from several key corporate functions including electric system operations, information technology, corporate security, and human resources at a minimum. This course will also review organizational structures for successful implementation and their experiences. This course will also provide an overview of compliance and monitoring efforts that NERC will conduct for the CIP standards and is designed to give the necessary background for all staff to understand the concepts and complexities of NERC compliance in order to communicate and build a culture of compliance and reliability and prepare for upcoming CIP audits.

LEARNING OUTCOMES

• Review the background for the NERC Critical Infrastructure Standards and discuss major recent revisions
• Review the scope and purpose of the NERC Critical Infrastructure Protection (CIP) standards
• Examine the NERC CIP requirements: Current version and upcoming revisions
• Assess the confidentiality provisions of the CIP standards
• Explain how violations are determined and identify which CIP standards are the most violated and why
• Discuss the challenges faced by utilities in defining a compliance program across the corporate functions necessary for CIP compliance (operations, information technology, corporate security, human resources, etc.)
• Define a culture of compliance and its importance in the compliance monitoring and enforcement process
• Examine strategies to build an internal CIP compliance program in such a diverse environment
• Analyze the audit process for CIP standards and demonstrate strategies for success before, during, and after an audit

WHO SHOULD ATTEND

• NERC registered entity personnel with compliance responsibilities
• Compliance managers and directors
• Generation owners and operators, including Independent Power Producers and renewable energy project developers
• Transmission owners and operators, including merchant transmission projects
• Attorneys and regulators
• RTO/ISO staff
AGENDA

THURSDAY, JUNE 6, 2019

12:30 – 1:00 pm  Course Registration

1:00  – 5:00 pm  Course Timing

- History and background of NERC CIP
- Reliability standards
- CIP Version 5 - New definitions
  - Review of the intent and purpose of each standard
  - Understanding each of the requirements
  - Departments involved in meeting the intent
- Bulk electric system (BES) cyber system categorization
- Security management controls
- Personnel & training
- Electronic security perimeters

FRIDAY, JUNE 7, 2019

8:00 – 8:30 am  Continental Breakfast

8:30 am – 5:00 pm  Course Timing

12:00 – 1:00 pm  Group Luncheon

- Physical security plan
- Audit process and preparation
- System security management
- Incident reporting/response planning
- Recovery plans for BES cyber systems
- Organizing for compliance
- Configuration change management and vulnerability assessments
- Information protection
- Managing documentation and evidence
- Tools and resources
  - “Tools” and NERC CIP compliance
  - Active vulnerability assessment tools
  - Danger: Active scanning of ICS environments is risky business!
  - Emerging issues and new standards
Andrew Gallo
Director of Corporate Compliance Programs, Austin Energy

Andrew Gallo is the Director of Corporate Compliance Programs for Austin Energy in Austin, Texas. He is also the current Chairman of the NERC Standards Committee and has served on the Standards Committee for many years. He previously served as Chair of the Texas Reliability Entity’s Regional Standards Committee.

He served as the Chief Compliance Officer for Seattle City Light (SCL) from 2008 to 2010 and led SCL through its first on-site NERC Reliability Standards audit and Austin Energy through six Regional Entity (Texas RE) audits covering all of its registered functions (including CIP). Before Seattle, he was Assistant General Counsel for Electric Reliability Council of Texas, Inc. (ERCOT), where he worked on protocols compliance and other matters. Before becoming part of the electric industry, he worked in the oil and gas industry for approximately 17 years. He received a Juris Doctor degree from the College of William and Mary in Virginia in 1985 and a Bachelor of Arts degree from Hofstra University in New York in 1982.

“\[This is a great course to attend to gather a better understanding and a deeper knowledge of the NERC CIP standard. I gained exceptional knowledge and example from this course that is extremely helpful to implementing the standards and to make sure we have the current standards understood correctly and implemented correctly. The course provided great examples an inside view of what the industry is expected to do and what the auditors expect.\]”

Corporate Cyber Security Operations Tech Analyst, NPPD
REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

INSTRUCTIONAL METHODS

PowerPoint presentations will be used in this course.

IACET CREDITS

EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

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EVENT LOCATION

EUCI Conference Center
4601 DTC Blvd., B-100
Denver, CO 80237

NEARBY HOTELS

Preferred Hotel
Hyatt Place Denver Tech Center
8300 E. Crescent Parkway, Greenwood Village, CO 80111 (0.9 miles away)
Call Central Reservations at 1-888-492-8847 and ask for the corporate rate under the Group Code: EUCI or visit https://denverttechcenter.place.hyatt.com/en/hotel/home.html?corp_id=102338 for the current EUCI rate.
(Hot Breakfast included and Free Shuttle to and from EUCI)

Hyatt Regency Denver Tech Center
7800 E. Tufts Ave
Denver, CO 80237
Phone: 303-779-1234
0.3 miles away

Hilton Garden Inn Denver Tech Center
7675 E. Union Ave
Denver, CO 80237
Phone: 303-770-4200
0.6 miles away

Denver Marriott Tech Center
4900 S. Syracuse St
Denver, CO 80237
Phone: 303-779-1100
0.7 miles away

REGISTER 3, SEND THE 4TH FREE

Any organization wishing to send multiple attendees to this course may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.
PLEASE REGISTER

- **SPECIAL COMBO PRICE** NERC FUNDAMENTALS AND COMPLIANCE AND NERC CRITICAL INFRASTRUCTURE PROTECTION (CIP) COURSES
  - June 5-7, 2019: US $2195
  - Early bird on or before May 17, 2019: US $1995

- **NERC CRITICAL INFRASTRUCTURE PROTECTION (CIP) ONLY:** June 6-7, 2019: US $1395
  - Early bird on or before May 17, 2019: US $1195

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name  Job Title

Company

What name do you prefer on your name badge?

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City  State/Province  Zip/Postal Code  Country

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List any dietary or accessibility needs here

**CREDIT CARD INFORMATION**

Name on Card  Billing Address

Account Number  Billing City  Billing State

Exp. Date  Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)  Billing Zip Code/Postal Code

OR Enclosed is a check for $ to cover registrations.

Substitutions & Cancellations
Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before May 3, 2019 in order to be refunded and will be subject to a US $195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI’s liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at 303-770-8800.

EUCI reserves the right to alter this program without prior notice.