



EUCI Presents a Conference on:

# NERC CRITICAL INFRASTRUCTURE PROTECTION (CIP)

COLLABORATION AND COMPLIANCE ACROSS THE UTILITY ENTERPRISE

December 11, 2009



Grand Hyatt Atlanta



Atlanta, Georgia

Please Join Us for a  
Networking Reception  
Hosted by ICF International



Thursday December 10, 2009,  
5:00 – 8:00 p.m.

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### OVERVIEW

The NERC Critical Infrastructure Protection (CIP) standards present a unique and daunting challenge to the organizations that operate the bulk power system. The standards and requirements are substantial, with the security of the grid, and our entire nation, at stake. Compliance to the CIP standards involves a myriad of departments that are used to being islands in the utility. Now that mandatory compliance is being enforced, how do Physical Security, IT and Information Security work with Human Resources and Operations to meet these security and compliance objectives? This conference will provide an overview of the considerations and complexities for CIP compliance and offer solutions to get the entire enterprise on the road to CIP compliance.

### LEARNING OUTCOMES

Attendees to this conference will:

- Review key changes that are in process for the NERC CIP standards
- Analyze the impact of Smart Grid technologies and the application of NERC CIP standards at the distribution level
- Examine how to use past cyber security expenditures and programs to support sustainable NERC CIP compliance
- Review the integration of NERC CIP, NIST and ISO 27001 to create a holistic NERC CIP program
- Discuss the Regional Entity perspective of CIP compliance and enforcement, thus far
- Demonstrate and solve cross department communication issues in order to support an enterprise wide CIP compliance program
- Identify best practices and lessons learned from leading utilities as they are integrating systems and implementing programs to become NERC CIP compliant in key security areas

### WHO SHOULD ATTEND

Utility Professionals to Include:

- Physical security
- Information technology/Information security
- Control systems
- G&T operations and engineering
- Employees of RTOs, attorneys, and regulators
- Program/Project managers charged with the responsibility of owning and achieving the NERC CIP standards and requirements
- Utility compliance directors/staff
- Regional Entity personnel to include compliance staff and auditors
- Utility contractors responsible for providing and/or supporting CIP related activities

### IACET



EUCI has been approved as an

Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102. In obtaining this approval, EUCI has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally.

As a result of their Authorized Provider membership status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards.

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#### Requirements for Successful Completion of Program

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

#### Instructional Methods

This program will use Case Studies, PowerPoint Presentations and Panel Discussions.

## PROGRAM AGENDA

**FRIDAY, DECEMBER 11, 2009**

**7:30– 8:00 a.m. Registration and Continental Breakfast**

**8:00 a.m. – 4:00 p.m. Conference Timing**

### SESSION I: TRAJECTORY OF NERC CRITICAL INFRASTRUCTURE PROTECTION

#### **NERC CIP Standards and Requirements are Being Revised: What's Next?**

This presentation will cover the recently published concept paper from the NERC CIP Standards Drafting Team and focus on the major changes that the standards drafting team is considering and the drivers behind those changes.

- *Jay Cribb, IT Security Analyst, Southern Company and Member, NERC CIP Standards Drafting Team*

#### **Securing the Smart Grid: CIP on the Distribution Level?**

Defining the Smart Grid is difficult because the definition keeps changing and evolving. However, at its core it is about overlying a communication infrastructure on top of an electricity delivery system in order to improve the reliability of the electric grid and to push out control and monitoring capabilities to a much more granular level. Consequently, what was previously controlled at a residential meter or distribution substation through manual intervention and observation can now be controlled and monitored remotely hundreds or thousands of miles away. This offers tremendous savings and the ability to respond to problems more quickly. However, it also presents security risks and may make systems controlling distribution just as critical as those controlling generation or transmission and may result in NERC CIP being made applicable to distribution systems.

This presentation will review the evolving path of NERC CIP regulations from voluntary guidance to mandatory regulation with significant fines and discuss how current CIP changes will affect the distribution environment. Much of the likely regulation will be drawn from guidance currently being developed by the NIST Cyber Security Coordination Task Group and various standards organizations. The session will highlight some of the likely regulations that may pose significant challenges for utilities. We will also offer some tips on how to plan for the upcoming regulations while addressing the risks that the regulations were designed to cover.

- *Gib Sorebo, AVP/Chief Security Engineer, SAIC*

### SESSION II: BUILDING A CIP COMPLIANCE PROGRAM

#### **SCADA Engineers are from Mars and IT Security is from Venus - Bridging the Gap with Active Policy Enforcement for NERC Compliance and Real Security**

The US Bulk Electricity system must comply with NERC Critical Infrastructure Protection regulations. The problem is that achieving compliance does not necessarily translate into better security. This session covers an approach of Active Policy Enforcement that does both while achieving savings through automation. The government and the utilities industry is cooperating to protect the nation's supply of bulk electricity (extending into North America). NERC CIP standards have been designed to ascertain the threat levels to critical assets and monitor the response to incidents. The entire process involves asset discovery, incident management and incident response mechanisms that include IT. Learn why it is crucial to link physical access control systems with ERP, EMS, DMS and utility control systems to deliver enhanced risk management capabilities that monitor physical access to critical assets and correlate blended threats to help defeat external threats from sabotage and terrorism, while managing roles and segregation of access to mitigate risks from insider fraudulent activity.

- *Shelley Cottrill, Senior Controls and Compliance Consultant, Allegheny Energy*
- *Jasvir Gill, CEO, AlertEnterprise, Inc.*

## PROGRAM AGENDA

### FRIDAY, DECEMBER 11, 2009 (CONTINUED)

#### **Case Study: Hybrid NERC CIP Program Management – North American Energy Alliance, LLC (NAEA)**

This presentation will describe NAEA's experience in building a NERC CIP program that is a hybrid model consisting of NERC CIP as the foundation with elements of the NIST Risk Management Framework and the ISO 27001 Information Security Management System for control and program management.

This briefing will also highlight the challenges faced with regards to newly acquired assets and NERC CIP implementation.

- *Michael Sim, Chief Information Officer, North American Energy Alliance, LLC*
- *Christopher Peters, Vice President, ICF International*

### **SESSION III: REGIONAL ENTITY PERSPECTIVE PANEL DISCUSSION**

This panel discussion will provide insight from regional entities as to issues identified and lessons learned thus far with the CIP compliance process.

- *Gary Fuerst, CIP Compliance Engineer, SERC Reliability Corporation*
- *Clark Liu, CIP Program Manager, Midwest Reliability Organization*

**11:30 a.m. - 1:00 p.m.**

#### **Luncheon Panel Discussion Session: Enabling Communication to Ensure Compliance**

Addressing the CIP standards and requirements involves many departments in the organization that have traditionally been islanded. Collaboration among IT, security and operations is key to successful CIP compliance. Panelists will discuss challenges involved with establishing CIP compliance across the enterprise and strategies for success in the areas of: cross department communication, functional organization and building a culture of compliance.

*Moderated by Lee Ditmar, Principal, Deloitte Consulting LLP*

*Panelists:*

- *Justin Clarke, Corporate Security, Pacific Gas & Electric*
- *Joe Doetzel, Manager, Information Security, Kansas City Power and Light*
- *Jay Cribb, IT Security Analyst, Southern Company*
- *Bill McEvoy, Northeast Utilities*

### **SESSION IV: HOW LEADING UTILITIES ARE ADDRESSING CIP IN KEY AREAS**

Each of these presentations will highlight winning strategies and innovative solutions in specific security areas and how these activities and implementations support CIP compliance.

- Physical Security
  - *Justin Clarke, Corporate Security, Pacific Gas & Electric*
- Electronic Security
  - *Dave Revill, Group Leader, Electronic Maintenance, Georgia Transmission Corporation*
- Systems Security
  - *Michael Echols, Security Consultant, SAIC*
- Personnel Security
  - *Justin Clarke, Corporate Security, Pacific Gas & Electric*

**4:00 p.m.**

**Conference Adjourns**

## PROCEEDINGS

A copy of the conference proceedings will be distributed to attendees at the event. If you are unable to attend or would like to purchase additional copies, flash drives are available 2 weeks after the conference is complete. The cost per Flash Drive is US\$295 [add US\$50 for international shipments]. Flash Drives include visual presentations only. Upon receipt of order and payment the Flash Drive will be shipped to you.

NOTE : All presentation flash drive sales are final and are non-refundable.

## CONFERENCE LOCATION

A room block has been reserved at the Grand Hyatt Atlanta, 3300 Peachtree Rd. NE, Atlanta, GA 30305, for the nights of December 10, 2009. Room rates are US \$145 single/double guest rooms. Call (404) 365-8100 for reservations and mention the EUCI conference to get the group rate. Make your reservations prior to November 27, 2009. There are a limited number of rooms available at the conference rate. Please make your reservations early.

## REGISTRATION INFORMATION

### REMEMBER, EVERY 4TH REGISTRANT IS FREE

For instant registration, call (303) 770.8800 or fax the Registration Form to (303) 741.0849.

Register 3, Send 4th Free!!

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

All cancellations received on or before November 13, 2009 will be subject to a US\$195 processing fee. Written cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI conference or publication. This credit will be good for six months. In case of conference cancellation, Electric Utility Consultants' liability is limited to refund of the conference registration fee only. For more information regarding administrative policies such as complaint and refunds, please contact our offices at (303) 770.8800.

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

### MAIL DIRECTLY TO:

Electric Utility Consultants, Inc. (EUCI)  
5555 Preserve Drive  
Greenwood Village, CO 80121

**FAX TO:** (303) 741.0849    **PHONE:** (303) 770.8800

## PLEASE REGISTER THE FOLLOWING

- NERC Critical Infrastructure Protection (CIP): Collaboration and Compliance across the Utility Enterprise, December 11, 2009, US\$995,  
**Early Bird Before December 4, 2009, US\$895**

Yes I plan to attend the Networking Reception on December 10th

- I'm sorry I cannot attend, but please send me the conference proceedings at US\$295. (Please add US\$50 for international shipping)

### ENERGIZE WEEKLY

When you sign up for "Energize Weekly" you will receive a new conference presentation each week via email on a relevant industry topic. The presentations are selected from a massive library of over 1000 current presentations that EUCI has gathered during its 22 years organizing conferences.

**Sign me up for "Energize Weekly"**

How did you hear about this event?  
(Direct email, Colleague, Speaker(s), etc.)

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Name Preferred for Badge \_\_\_\_\_ E-Mail \_\_\_\_\_

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Or enclosed is a check for \$ \_\_\_\_\_ to cover \_\_\_\_\_ persons.

Check here if you have any dietary or accessibility needs. We will contact you for more details.

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