Utilities in the United States and Canada will need to identify their bulk energy systems and their plans to be compliant with NERC CIP Version 5 by April 1, 2016. For some this is a daunting task invoking concern and confusion given that much of the required information lies with suppliers.

ABB recognizes this and would like to assist customers by offering a series of eight educational webinars to help in this process.

The North American Reliability Corporation (NERC) is an international regulatory authority whose mission is to ensure the reliability of the bulk power system in North America. NERC develops and enforces reliability standards and is initiating a transition program to help the industry understand and implement NERC’s Critical Infrastructure Protection Version 5 (CIP Version 5) reliability standards in a timely, efficient manner that meets the intent of the CIP Version 5 standards. NERC’s CIP Version 5 reliability standards represent a significant improvement over the current CIP Version 3 standards. CIP Version 5 adopts new cyber security controls and extends the scope of the systems that the CIP standards protect. The transition program will be in place through the enforcement date of the CIP Version 5 standards that begins April 1, 2016.

Current challenges
- Gain an understanding that will aid in identifying bulk energy critical infrastructure that will be subject to audits.
- Learn about cyber security, change management, baseline management, and malicious software controls.
- Understand the importance in power flow and stability models, identification/verification of critical substations, and creation of a risk assessment report.
- Minimize unnecessary capital investment and wasted time upgrading substations to non-NERC CIP sites.
- Change the 20-year old mentality of control system security and threats.

You have questions, we have the answers! During the series we will answer your most pressing questions, including:
- Which systems and substation are critical and will be subject to NERC CIP Version 5 audits?
- What method was used? Was a steady state or dynamic analysis performed to validate this? Does this include under-frequency / Under-voltage load shedding schemes?
- Is there a written report documenting system wide instability, loss of source MW, consequential/non-consequential load loss, loss of reactive sources, and potential issues related to voltage collapse or recovery?
- What type of studies have been done to date?
- What is so important about change management, baseline management and cyber security of the controls and communications systems at the BES CIP sites?
ABB is hosting an eight part educational webinar series to assist utilities with their NERC CIP preparation, planning and submissions. ABB’s belief is that we are partners with our customers, we have supplied equipment and services, and ABB should be there to assist our utility customers with the appropriate guidance.

**Cyber system categorization (Power generation specific)**
*Thursday, September 25, 2014 at 12:00 PM EDT*
During this webinar, you will learn process approaches to CIP-002-5.1 R1, BES cyber system categorization. We will discuss interpretations of the requirement language and provide guidance on how a generation facility can navigate the uncertainty. We will also review two case studies that will illustrate the process.

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**NERC CIP Version 5 transition**
*Wednesday, October 8, 2014 at 2:00 PM EDT*
During this webinar you will learn the basics of NERC CIP Version 5 while we examine the differences between Version 3 and Version 5. We will also discuss the definition of critical infrastructure and bright line criteria as well as the effects of compliance programs and the new entities brought into compliance. And lastly, we will discuss CIP-014-1 standard sections 4.1.1.1 thru 4.1.1.4 highlighting its importance and the differences with NERC CIP Version 5.

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**Change management**
*Wednesday, October 15, 2014 at 2:00 PM EST*
During this webinar you will learn about change management and the fact that this will be the largest area of recurring effort. You will gain understanding of why patch management is not a solution to meet your NERC CIP updates and why Version 3 no longer applies. In addition, we will break down what is really required for the Version 5 change management.

>> Register now

**Baseline management**
*Wednesday, October 22, 2014 at 2:00 PM EDT*
During this webinar you will learn what a baseline is, what is testing, and why automation is key. In addition, we will break down what is really required to meet Version 5 compliance.

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**Cyber asset grouping (Power generation specific)**
*Thursday, October 23, 2014 at 12:00 PM EDT*
In this webinar, you will learn process approaches to CIP-002-5.1 R1 as it pertains to BES cyber asset categorization. We will discuss interpretations of the requirement language, how to navigate uncertainty and review typical ABB DCS cyber assets. We will also review the BES cyber asset and system grouping approach and compliance applicability.

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**Access management and malicious software controls**
*Wednesday, October 29, 2014 at 2:00 PM EDT*
During this webinar you will learn how access control fits with CIP-004-5 and why account management is not effortless. In addition, we will define what malicious software control is, traditional and hardening strategies, tactics, and eternal vigilance required to comply with Version 5.

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**Low assets and future CIP versions (Power generation specific)**
*Wednesday, November 5, 2014 at 2:00 PM EST*
During this webinar we will review compliance requirements for entities with low assets and audit worksheets. We will then take a look at future standard activities and the probable impact on effective dates, implementation plans and transition plans.

>> Register now

**Identification and review of critical transmission assets**
*Wednesday, November 12, 2014 at 2:00 PM EST*
During this webinar you will learn how to approach the guidelines and criteria highlighted by NERC towards fulfilling the risk assessment goal. Learn how to ensure that models used for the assessment represent appropriate system conditions and all relevant transmission projects. We will also discuss the importance of proper screening to identify substations/stations for further analyses based on the “applicability” of the CIP-014-1 Standard. Screened critical transmission assets that will be subjected to a steady state and dynamic analysis to evaluate the system performance in both regimes will also be discussed.

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**Series Presenters:**
- **Mike Radigan**, Senior Advisor, Cyber Risk Management, ABB
- **Joseph Baxter**, NERC CIP Lead, ABB (Former NERC CIP auditor in SERC region)
- **Joe Doetzl**, Head of Cyber Security, Ventyx (FERC Order 706 Drafting Team & former NERC compliance consultant)
- **Tim Conway**, Chair of NERC CIP Interpretation Drafting Team
- **Martin Shalhoub**, Manager, Business Development, ABB Power Consulting
- **Dr. Seshadri Subramanian**, Senior Principal Consultant, ABB Power Consulting