CYBER SECURITY FOR THE NUCLEAR POWER INDUSTRY
CRITICAL INFRASTRUCTURE PROTECTION
A comprehensive program for enterprise compliance and readiness.

CYBER SECURITY MANAGEMENT
Energy companies that generate – or facilitate and manage – the transmission or distribution of electricity must not only embrace technology to continuously improve the reliability and operability of the bulk electric grid, but also must ensure that critical digital computer and communications systems and networks are adequately protected against cyber attacks.

Cyber attacks can originate from external and internal sources – and as electronic defenses improve, the development of cyber attack tools keep pace. From nations researching cyber warfare, to hackers sharing cyber attack knowledge, tools and techniques, new cyber security threats continue to emerge.
Energy companies of all types are in a unique situation. They provide an essential service to the economy, and they have back-office systems that contain information for millions of customers and some operate nuclear facilities. These attributes create high-profile targets for cyber attacks.

In response to risks, regulations have been enacted to help achieve compliance and protect vital utility infrastructure.

UNIQUELY QUALIFIED SECURITY PARTNER
As a global company that’s focused on energy infrastructure issues, Black & Veatch understands risks. From equipment used for generation facilities, transmission and distribution lines and substations, to the security of networks carrying critical data back to control centers, to the flow of information that maintains power grid stability, we provide sustainable solutions that mitigate your exposure.

Black & Veatch’s veteran utility leadership and nuclear business operating experience, combined with our cyber security and compliance professionals, provide the most qualified team to execute your cyber security initiatives, and ultimately achieve compliance.

Black & Veatch has kept current with Nuclear Energy Institute (NEI) and other relative standards for nuclear cyber security. It has recently been a contributing author to NEI 10-09 - Security Control Inheritance Assessment using Common Controls for Nuclear Power Reactors.

APPROACH TO COMPLIANCE AND SECURITY
Black & Veatch’s approach to cyber security leverages expertise in the global electricity industry. It is based on implementing accepted industry best practices to achieve compliance with applicable standards.

Black & Veatch’s Cyber Security Program:
- Utilizes cyber security-trained professionals familiar with the challenges of nuclear power plants and substations, who also have experience in power generation and control centers, to help identify and assess critical digital assets.
- Performs an audit and gap analysis on existing assets against compliance, administrative, logical and physical controls, resulting in a clear roadmap for risk remediation.
- Provides customized cyber security and compliance training tools and programs that meet or exceed nuclear cyber security standards.
- Implements network and physical security recommendations into facilities, including the protection of existing control systems and those with legacy or obsolete control systems.
- Addresses the cyber, physical and resource allocation aspects to provide security, policy and procedure development, technical recommendations and ongoing maintenance.
- Develops and implements methodical tools to map multiple compliance requirements for an overall program – saving time, money and resources
- Customizes a comprehensive enterprise compliance program for establishing and maintaining a robust security posture and a readiness culture throughout the organization.

HOSTS – LOG GENERATION

LOG ANALYSIS & STORAGE

LOG MONITORING & REPORTING
BUILDING A WORLD OF DIFFERENCE®

Black & Veatch is an employee-owned, global leader in building Critical Human Infrastructure™ in Energy, Water, Telecommunications and Government Services. Since 1915, we have helped our clients improve the lives of people in over 100 countries through consulting, engineering, construction, operations and program management. Our revenues in 2011 were US $2.6 billion. Follow us on www.bv.com and in social media.

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