

## Cyber Security for Nuclear Facilities

### *Cyber Security Assistance*

Publication of NRC's requirements for cyber security places emphasis on identifying vulnerabilities. 10 CFR 73.54 requires that licensees implement a plan to protect each plant against cyber attack. This required the assessment of current systems, identification of Critical Digital Assets, implementation of cyber security controls, and development of implementing procedures.

Now utilities have implemented Milestones 1-7 and are implementing Milestone 8.

Talisman is well qualified to assist you in conducting cyber security program assessments and preparing for the NRC cyber security inspections.

Talisman personnel include a number of former NRC executives and managers with extensive experience in nuclear security, cyber technology and regulatory affairs, and national security experts in the fields of information protection, cyber security and threat assessment.

Of particular importance is the NRC perspective that Talisman personnel bring to the effort, and our ability to support licensees' interests in having successful cyber security programs.

### *Special Expertise*

#### **Principal Business Areas**

- Program Assessment
- Self Assessments
- Regulatory Support
- Pre NRC Cyber Security Inspection Support
- NRC Cyber Security Inspection Support



#### **Extensive knowledge of NRC Cyber Security regulations and regulatory guidance**

- Barry Westreich was the senior executive in charge of cyber security regulations and guidance and was involved in the NRC cyber security inspection program.

#### **Extensive knowledge of Nuclear Energy Institute Cyber Security guidance**

- NEI 08-09, Rev 6, "Cyber Security Plan for Nuclear Power Reactor" - Jack Roe was the managing editor for the development and NRC approval of this industry document.

### *Talisman Cyber Security Projects*

#### **Southern California Edison**

- Evaluated the details of the Cyber Security Program, including being a regulatory subject matter expert on the team preparing for and during the NRC Cyber Security inspection.

#### **Constellation Energy**

- Evaluated Constellation's Cyber Security Program and participated as a member of the Constellation team to prepare for the NRC Cyber Security inspection.

*Talisman International, LLC is a consulting firm whose principal areas of expertise are cyber security and safety of facilities that use radioactive materials. Talisman partners and senior consultants have extensive experience as either senior managers of operating nuclear utility companies or senior managers of large divisions of government agencies.*

## *Talisman Cyber Security Projects (cont'd)*

### **Energy Northwest**

- Provided consulting services to support the preparation for, and participation in, the NRC Cyber Security inspection.

### **Xcel Energy**

- Provided consulting services to support the preparation for, and participation in, the NRC Cyber Security inspections at Prairie Island and Monticello.

### **Tennessee Valley Authority**

- Evaluated TVA's Cyber Security Program and participated as a member of the TVA team to prepare for the NRC Cyber Security inspection at Watts Bar Nuclear Power Plant.

### **Dominion**

- Providing consulting services for the Cyber Security programs at North Anna, Surry and Millstone.

### **NEI**

- Evaluating NRC Cyber Security Inspections for lessons learned.

## *Key Personnel*

**Jack Roe** is Director of Regulatory Services at Talisman. He has more than 35 years of professional experience in the safety and security of nuclear facilities, including many years in this field spent at the NRC and Nuclear Energy Institute. At NRC, Mr. Roe was the Deputy Executive Director for Operations and, at NEI, he was the Director of Security where he managed implementation of the cyber security rule. Mr. Roe was the managing author of NEI 08-09 Rev 6 "Cyber Security Plan for Nuclear Power Reactors."

**Terrence Reis** is Director Reactor and Materials Safety Services at Talisman. He has over 34 years of nuclear experience, 28 of which have been with the NRC. Prior to joining Talisman, Mr. Reis served as Director, Division of Reactor Safety, Region II. In his executive role, he led seven subordinate managers and a staff of 86 in the implementation of the agency's reactor inspection and assessment program for operating reactors in Region II. Mr. Reis led three engineering branches in implementing the cyber security and other inspections.

**Barry Westreich** is a Senior Nuclear Safety consultant at Talisman. He recently retired as Director, Cyber Security Directorate at the U. S. Nuclear Regulatory Commission. As Director, he was the senior executive in charge of cyber security regulations and guidance and was involved in the NRC cyber security inspection program.

*Talisman, an ENERCON company, is a consulting company that was established in April 2002 through the combination of two well-established consulting practices, one specializing in regulatory and litigation assistance and the other in information technology and security services.*

*Talisman has grown to more than one hundred employees and consultants and now offers consulting services in the areas of Regulatory Assistance, Litigation, Technical Security, Information Security and Special Projects.*

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*ENERCON is ranked as one of the largest providers of engineering design services to the U.S. Nuclear Industry. With over 850 experienced engineers, many with advanced degrees and significant operating plant experience, we are uniquely qualified to support our clients' routine and complex engineering needs, especially in the Nuclear Security and Cyber Security areas. Our Engineer of Choice contracts with over 80% of the operating U.S. nuclear power plants allows us to efficiently provide high quality services for both large and small scope projects.*

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*Talisman, an ENERCON company, specializes in providing support to licensees that are addressing complex issues before the Nuclear Regulatory Commission (NRC), the NRC Agreement States Program and the U.S. Department of Energy. Principal areas of expertise include Regulatory Assistance, Security, Litigation and Expert Witness Testimony.*

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