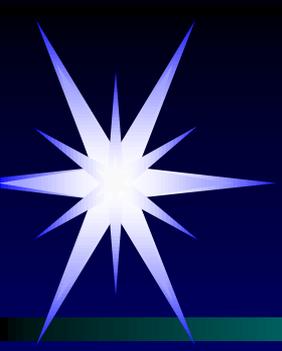




# Cyber Security

Women In Nuclear Conference  
February 8, 2011

Nolan Henrich  
TVA



# Background

- Interim Security Order in 2002
- NRC NUREG CR 6847
- NEI 04-04 R1
- Assessments completed by industry 5/1/08
  
- 10 CFR 73.54      5/26/09
- Reg Guide 5.71
- NEI 08-09 R6



# Regulatory Environment

➤ NRC

10CFR 73.54

➤ NERC

Critical Infrastructure Protection  
Standards (CIPS)

➤ OMB

Federal Information Security  
Management Act (FISMA)  
NIST 800-53



# Bright Line Survey

## ➤ NRC

- Safety, Security, and EP Systems
- Systems that impact reactivity management

## ➤ NERC

- Nuclear Industry anticipates no in-plant systems covered by CIPS



# Cyber Program Status

- NEI 04-04 Remediation plans
- Cyber Security Plans submitted to NRC
- Cyber security implementing procedures
- Begun baseline assessments of plant systems to new NRC criteria
- Reviewing existing design changes for cyber security issues



# Challenges

- Changing regulatory environment
- Changing processes
  - Integration of cyber security controls with plant processes and procedures
- Changing the Culture
  - Project mentality
    - Resources