



NRC Cyber Security Rulemaking

- **Brief History To Bring Us Current**
 - NRC Order EA-02-026, Interim Actions
 - NUREG/CR-6847, Self assessment
 - NEI 04-04 rev 1, Cyber Security Program
- **Power Generation and Distribution**
 - NERC standards CIP-002 thru CIP-009
 - Compliant Q2 2009, Auditable Q2 2010



NRC Cyber Security Rulemaking

- NRC adding new section to 10CFR73, part 54 to specifically address cyber security
- Final rule expected to be published this April
- Cyber Security Plans must be approved by NRC within 180 days of the effective date



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- Draft Guide 5022 to provide guidance to implementing 10CFR73.54
 - First draft received 100 pages of comments
 - Second draft out mid-December 2008.
 - 52 pages, very prescriptive
 - NEI Draft Guide Review Committee providing industry input



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- What Is New Programmatically
 - Site cyber security plan becomes part of the license basis. The plan is submitted for review as a license amendment
 - Site cyber security program manager and cyber security specialists report to the Security Manager



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- What is new technically
 - Draft guide 5022 is very prescriptive
 - Work to implement NEI 04-04 will not be enough
 - Defense in depth required at the security layer boundaries
 - Air gap systems no longer exempt from most of the requirements
 - Emergency Preparedness Systems (EOP) are no longer ‘business systems’
 - Separate security network required
 - Relies heavily on NIST standards



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- New Documentation Requirements
 - Formal records retention and handling
 - Site cyber security plan and some digital system configuration may be Safeguards information
 - ‘sensitive unclassified information’
 - Program review 12 months after implementation, and every two years thereafter



NRC Cyber Security Rulemaking

- Personnel Qualifications / Certifications
 - No certifications are explicitly called out
 - There are several generic security specialist certifications, CISSP, CompTIA Security, and some vendor specific ones (Cisco)
 - Continuing education for cyber security specialists is discussed



NRC Cyber Security Rulemaking

- Sciencetech Initiatives
 - Stay current with the new and developing requirements
 - Sensitivity to cyber security requirements when configuring new systems and applications
 - Assist customers in meeting new requirements as requested