



RIC 2011

Cyber Security Implementation at Nuclear Power Plants

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Historical Perspective

- US Nuclear Plants implemented Nuclear Energy Institute guidance (NEI 04-04). Proactive effort.
- Risk Based Approach
 - Identified digital assets to protect.
 - Performed vulnerability assessments.
 - Mitigated vulnerabilities based on risk.
- Implemented a Defensive Strategy
- Provided cyber training and Incidence Response.

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Today

- Cyber Security Rule 10 CFR 73.54
 - NRC Regulatory Guide 5.71
- NEI developed NEI 08-09
 - Consistent with RG 5.71
- Plans submitted for NRC review.
- Performance Based program.

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Performance Based Program

- Identify Critical Systems(CS)
- Critical Digital Assets(CDAs)
- Address/Evaluate over 130 Cyber Security Controls for every CDA.
 - Very prescriptive, rigorous evaluation.

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Prioritized Implementation

- Prioritized approach to **implementing** the Rule.
- Implement high impact activities first.
 - Higher Value CDAs, assessed and mitigated.
 - High value Security Controls, i.e. Removable Media Control.
 - Defensive Architecture elements, i.e. Data Diodes, Air Gaps.

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