NUCLEAR CYBER SECURITY
Engineering Services

Sargent & Lundy

Areas of Specialty

Consulting. Provide guidance in the cyber security controls process in accordance with NRC and NEI standards.

Implementation support. Facilitate cyber security plan (CSP) programs and ongoing compliance activities.

Licensee support. Assist with the planning and implementation of cyber security controls on existing critical digital assets (CDAs) and new CDAs added by digital upgrades.

Protection analysis. Recommend required cyberattack protection, up to and including the design basis threat described in 10 CFR 73.1.

Compliance assurance. Ensure compliance with new NRC Cyber Security Inspection Procedure 71130.10.

About Sargent & Lundy

Founded in 1891, Sargent & Lundy is one of the longest-standing full-service architect engineering firms in the world. The firm is a global leader in power and energy with expertise in grid modernization, renewable energy, energy storage, nuclear power, fossil fuels, and carbon capture. Nuclear power has been one of Sargent & Lundy's core competencies since 1954, with proven capabilities in engineering, design, analysis, compliance, and project management. The firm delivers comprehensive project services – from consulting, design, and implementation to construction management, commissioning, and operations/maintenance – with an emphasis on quality and safety. It serves public and private sector clients in the power and energy, gas distribution, industrial, and government sectors.

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Why Clients Choose Sargent & Lundy

Sargent & Lundy is more than a world-class power and energy engineering and design firm. We offer nuclear cyber solutions that are informed by detailed knowledge of nuclear plant regulations, system design, maintenance, and operation. We pride ourselves on providing cyber security solutions that are safe, secure, and optimized for the unique needs of a nuclear power plant.

Defensive network design using data diode

Capabilities and Experience

- Determinations: Critical system, digital asset, CDA
- Assessments: CDA Direct/Indirect Consequences, CDA Controls
- Cyber security development: Specification requirements, procedures, laboratory system design and implementation
- Defensive network design (defensive levels with air gaps, data diodes, and firewalls)
- Security control implementation and remediation
- Cyber staff augmentation
- Security Information and Event Management (SIEM) design, implementation, and tuning
- Periodic cyber security program review
- Impact analyses of changes to CDAs
- Ongoing monitoring and assessment of security controls
- NRC cyber security inspection assistance
- Cyber security training
- Risk-informed cyber evaluations