Asset Protection and Development

Security Computer System and Physical Security Design

Background

Westinghouse Asset Protection and Development (APD) engineers have 30+ years of combined experience in creating Target Set and Vulnerability Analyses in the nuclear industry.

APD staff is comprised of Professional Engineers with licenses in multiple states and countries. Our technical leads have years of operating plant, new build design and licensing experience. APD has been creating engineering analyses and security systems/analyses to fully comply with **10 CFR 73.55** for over 20 years.

Westinghouse also maintains a standalone **10 CFR 73.22**-compliant Safeguards Information (SGI) program. Currently, APD engineers hold security clearances in three countries and maintain four programs of secured information.

Description

The protection of nuclear power plants and spent nuclear fuel storage facilities is critical to providing safe, low-cost, reliable electric power to businesses and homes. APD provides complete intrusion detection, access control and surveillance solutions for nuclear plant protection.

We provide an optimized equipment footprint that is catered to operational efficiency and regulatory compliance. By identifying the critical methods of detection and assessment, we can eliminate unnecessary loads on a security computer system to ensure more consistent and robust operability.

Westinghouse has extensive experience in defining the appropriate security equipment and resources needed to comply with industry requirements.

Security Computer Systems in the nuclear industry are crucial in helping operators to accurately identify, assess, track, and neutralize adversary threats.

Vitally important in this effort is the simplicity and user-interface of operator interaction with security field instrumentation and equipment, as well as communication systems in coordinating an efficient response.

APD can work with existing Physical Security Plans or assist in creating a new Plan. APD capabilities in nuclear power plant defense include:

- Establishing vehicle and personnel barriers at appropriate distances from critical equipment
- Designing access control features to allow authorized individuals and vehicles into and out of the protected area
- Devising an intrusion detection and surveillance plan that allows security forces adequate time to assess and respond to threats
- Establishing uninterruptible power and communications to all equipment and response positions.

Benefits

APD provides timely, economical, regulation-focused solutions for issues requiring corrective action, driven by reasonable cost / benefit analysis. This means the overhaul of an existing security computer system, or the design of a completely new system foundation.

APD will utilize its experience and knowledge of Federal Regulations, Regulatory Guides and industry experience to ensure your nuclear security system design will set your security teams up for success.

Westinghouse

Deliverables

APD will supply the following items based on the analyses described above:

- Complete drawing packages
- Installation/testing plans
- Design requirement documents
- Compliance matrices
- Functional specifications
- Procurement specifications
- Supporting calculations

APD can also provide technical support of your in-house engineering and security teams.

Experience

The Westinghouse Asset Protection and Development team has combined over 60 years' experience in nuclear power plant security design.

- Multiple Vendors, AP1000® Standard Plant
- Alvin W. Vogtle Nuclear Generating Site, Waynesboro, GA

Westinghouse Electric Company
1000 Westinghouse Drive
Cranberry Township, PA 16066

January 2019 / PE-0001