

## Regulatory Evaluations

### Background

Westinghouse Asset Protection and Development (APD) engineers have 30+ years of combined experience in creating Regulatory Evaluations and documentation 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 and 10 CFR 73.50** for over 20 years. APD has also performed Aircraft Impact Assessments complying with **10 CFR 50.150** for the AP1000® Standard Plant.

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

Licensees are required to complete a number of different regulatory evaluations beginning with initial design certification and throughout the life of the plant. APD can provide an unbiased, outside assessment needed to ensure the proper completion of these evaluations and help ensure compliance with regulations.

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

- Aircraft Impact Analysis
- Vital Equipment List creation, reviews or updates
- Vital Area creation, reviews or updates
- Pre-Inspection assessments
- Blast Analysis/Minimum Safe Standoff Distance.

Blast analysis is performed to analyze the adverse effects of an explosion on a facility's critical infrastructure or resources. Adverse effects, such as structural damage or personnel loss, may result from overpressure or fragmentation hazards associated with a person-borne improvised explosive device (PBIED) or a vehicle-borne improvised explosive device (VBIED).

Minimum safe standoff distances (MSSD) are established for already-constructed buildings or areas inhabited by personnel based on viable threat vectors and a pre-determined net explosive weight requirement. However, blast analysis can also be used to back-feed building structural requirements before construction based on site-specific conditions or boundaries.

Westinghouse has developed a proven, systematic approach to blast analysis that can help operating sites protect vital equipment, structures and personnel.

### Benefits

The Asset Protection and Development team will utilize its experience and knowledge of Federal Regulations, Regulatory Guides, industry experience, and our experience dealing with regulators to ensure your evaluation is not only accurate, but has the necessary level of detail to hold up to reviews or audits.

Systematic third party assessments and analysis provide objective insight into security shortcomings that may not otherwise be identified by existing site personnel.

We provide timely, economical solutions for issues requiring corrective action, driven by reasonable cost / benefit analysis.

### Deliverables

Westinghouse can work independently to provide an unbiased and well documented analysis. We can also provide technical support of your in-house engineering and security teams to assist them in completing these evaluations.

The described analyses produce the following types of documentation:

- Security Plan Updates
- Minimum Safe Standoff Distance (MSSD)
- Breaching Consulting
- Risk Management Plan / Matrix
- Physical Hardening of Buildings / Critical Equipment

## **Experience**

In addition to broad experience with regulatory evaluations in both design certification and operating plants, we have extensive security experience including training and/or certifications in a number of security related areas. We also have significant experience dealing with regulators.