




Physical Protection Baseline Inspection Program for Operating Power Reactors

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March 10, 2015



Physical Protection Baseline Inspection Program (PPBIP): What, Who, When, Why, and How.

- The PPBIP is a comprehensive, systematic inspection approach for core areas of a physical security program.
- Primarily, the PPBIP is conducted by U.S. Nuclear Regulatory Commission (NRC) regional offices, but one activity is conducted by NRC headquarters.
- Nominally, the PPBIP is conducted and completed on a 3-year cycle.
- Protection of public health and safety, promote the common defense and security, and protect the environment is the basis for the PPBIP.
- A dedicated Inspection Manual Chapter (IMC) establishes the methodology for the PPBIP.



Forward Looking Vision for the PPBIP

- Refine precursory inspection activities to better inform performance-based assessments.
- Eliminate redundancy and gain efficiencies through program initiatives.
- Revamp the significance determination process to achieve a more predictability and more reliability outcome.
- Complete the cycle with more comprehensive and more efficient performance-based inspection activities.

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Security Inspection for Commercial Nuclear Power Reactors

- **Security Inspection Activities**
 - Access Authorization
 - Access Control
 - Contingency Response – Force-on-Force Testing
 - Equipment Performance Testing, and Maintenance
 - Protective Strategy Evaluation and Performance Evaluation Program
 - Protection of Safeguards Information (SGI)
 - Security Training
 - Fitness-for-Duty (FFD) Program
 - Material Control & Accounting (MC&A)
 - Review of Power Reactor Target Sets

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Security Inspection and Activities (continued)

- **Precursory Inspection Activities (Compliance-Based/Limited Performance-Based)**
 - Access Authorization
 - Access Control
 - Equipment Performance Testing, and Maintenance
 - Protective Strategy Evaluation and Performance Evaluation Program
 - Protection of Safeguards Information (SGI)
 - Security Training
 - Fitness-for-Duty (FFD) Program
 - Material Control & Accounting (MC&A)*
 - Review of Power Reactor Target Sets

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Security Inspection and Activities (continued)

- **Comprehensive Performance-based Inspection Activities**
 - Contingency Response – Force-on-Force Testing
 - Protective Strategy Evaluation and Performance Evaluation Program
- **Compliance-Based Activities**
 - Plan Commitments
 - Performance Indicators
 - Target Sets

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Security Inspection and Activities (continued)

- **Limited Performance-Based Activities**
 - Firearms Demonstration
 - Timeline Drills
 - Performance Evaluation Program Assessments
 - Vehicle Searches
 - System Testing
- **Comprehensive Performance-Based Activities (Force-on-Force Exercise)**
 - Cover and Concealment
 - Tactical Engagement
 - Use of Force

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Interrelationships of Elements within the PPBIP

Leading up to the force-on-force assessment, the inspector evaluates a component of a licensee's physical protection program in an independent manner; however, the force-on-force baseline inspection is the ultimate assessment of how these components work in unison to achieve the primary objective of a licensee's physical protection program (i.e., protection of public health and safety).
