

**Considerations For An  
Enhanced Safety and Security  
Defense-in-Depth Strategy  
During Hostile Action Events**

Regulatory Information Conference  
March 12, 2014



U.S.NRC  
United States Nuclear Regulatory Commission  
Protecting People and the Environment

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**Introductions**



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**Session Objectives**



- Enhance awareness of existing security/emergency preparedness demonstration activities
- Identify potential future opportunities to enhance the effectiveness and efficiency of demonstration activities

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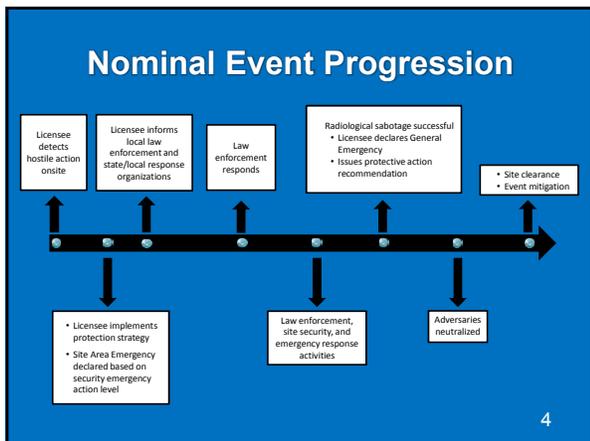
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### Force-On-Force Exercises

- Purpose
  - Verifies that licensees can protect against the design basis threat of radiological sabotage and theft or diversion of nuclear material with high assurance
- Regulation
  - Title 10 of the *Code of Federal Regulations* (10 CFR) Part 73, "Physical Protection of Plants and Materials"
- Site Activities
  - Licensee conducted force-on-force exercises
  - Force-on-force exercises conducted by the NRC
- Frequency
  - Annually, licensee-conducted force-on-force exercise
  - Triennially, NRC-evaluated force-on-force exercises

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### Integrated Response Program

- Purpose
  - Voluntary program designed to integrate law enforcement tactical responses with licensee actions to protect public health and safety, promote the common defense and security, and protect the environment
- Regulation
  - Supports NRC's Design Basis Threat (10 CFR 73.1)
  - Enhances Safety/Security Interface (10 CFR 73.58)
  - Helps to ensure Emergency Plan implementation in an active hostile environment
- Activity and Frequency
  - Integrated Response Plans: reviewed annually, updated as needed
  - Computer-aided planning tools: develop 6 tools/year until complete
  - Tabletop exercises: vision for all sites once every 3 years
  - Limited exercises: vision for all sites once every 3 years

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**NRC Hostile Action-Based EP Exercise Evaluation**



- Purpose
  - Coordinate Security, Operations, ERO and ORO actions to successfully respond to and mitigate plant damage before site is declared secure
- Regulation:
  - 10 CFR Part 50, Appendix E, Section IV.F, "Training"
- Inspection Activity
  - Ability to conduct biennial exercise in a hostile action environment
  - Critique process to identify and correct weaknesses
  - Classification, notification, protective action recommendation, dose assessment activities
  - Employee and emergency worker protection
  - Coordination with offsite officials at Incident Command Post
- Frequency
  - Once every 8-year exercise cycle

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*Current Force-on-Force (FOF), Integrated Response Program (IRP) and Hostile Action-Based (HAB) Exercise Comparison Highlights*

TOPIC	FOF	IRP	HAB
Regulatory Requirement	X	None	X
Exercise Planning	60 days notice	Scheduled	Scheduled (8-year cycle)
Mock Adversary Force	X	Not Required	--
Safeguards Information	X	X	--
<b>Licensee Participation:</b>			
▪ Operations	X (limited)	X (limited)	X
▪ Security Force	X	X (limited)	X (limited)
▪ ERO	--	--	X
<b>Offsite Participation:</b>			
▪ Law Enforcement	--	X (tactical)	X (non-tactical)
▪ Emergency Management	--	X (tactical medics)	X
▪ ICP/UC (ICS)	--	X (tactical)	X
Communication Interfaces	X (onsite)	X (Security/ Operations/ Law Enforcement)	X

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**Questions**

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**Contact Information**



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