

United States
Department of Energy
National Nuclear Security Administration
International Nuclear Security

The Importance of a Performance Evaluation Program







Briefing Overview

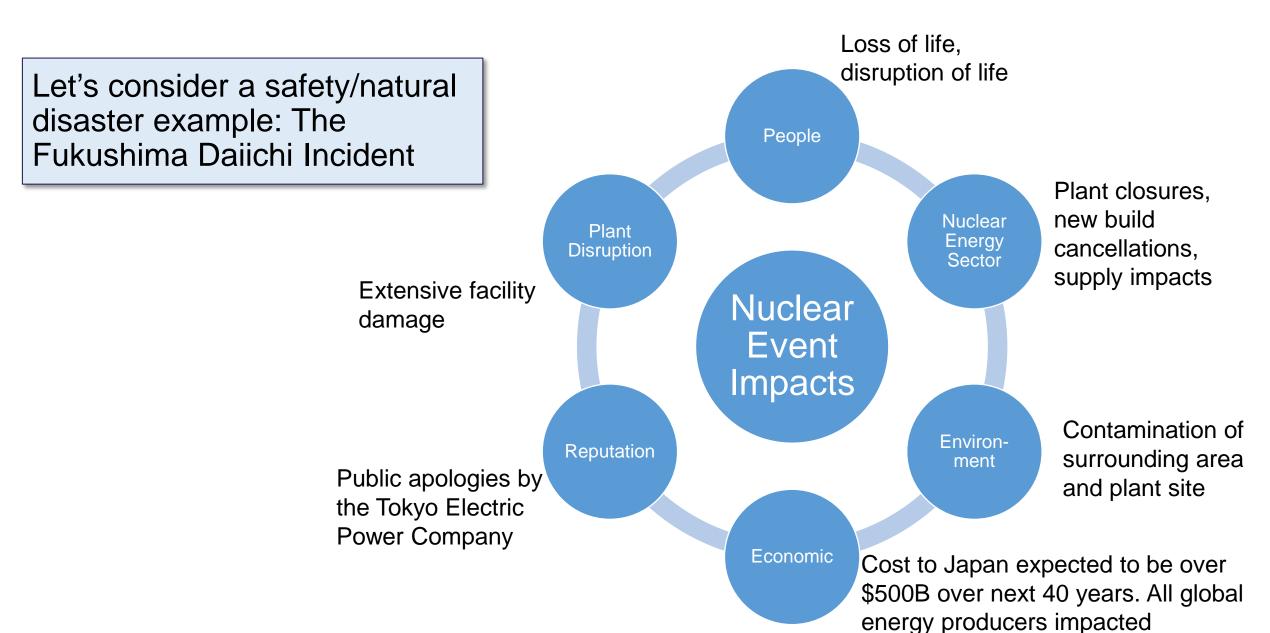
Provide introductory information regarding the importance of Performance Evaluation

- Discuss nuclear event consequence considerations
- Present benefits of performance evaluation programs
- Share a Performance Evaluation Definition



We Can't Afford Nuclear Security Failures







Questions Nuclear Security Professionals Should Ask Themselves



- Can our security program meet the threats it must face?
- How can we confirm that our nuclear security program is working as needed and addresses regulatory requirements?
- Our recommendation: Performance Evaluation Program and unique means to evaluate and collect data



What is a Performance Evaluation Programme?

Performance evaluation programmes consist of methodologies and tools used for assessing, testing, and exercising physical protection capacities to mitigate threats of theft or sabotage at nuclear facilities.





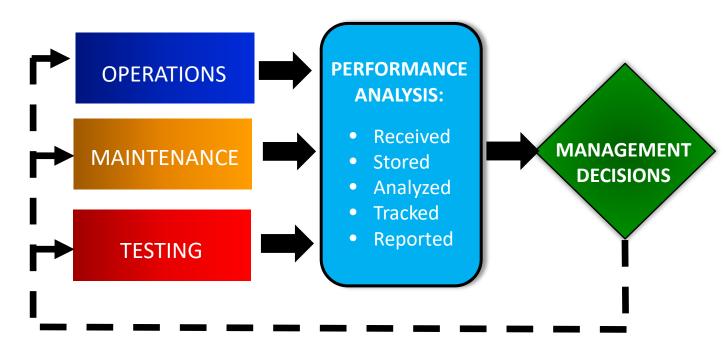


Benefits of a Performance Evaluation Program



What can you expect the performance evaluation program to do?

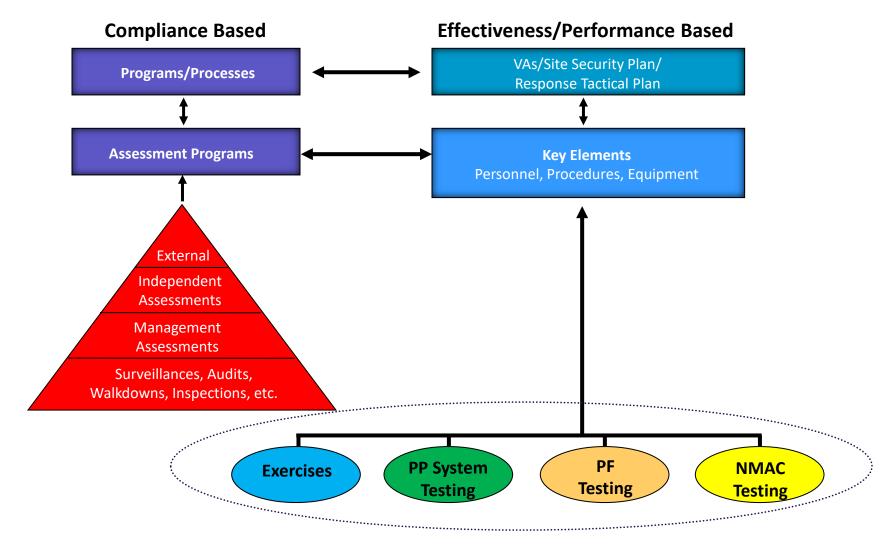
- Determines the real-world effectiveness of the nuclear security program
- Determines effectiveness of individual protection elements as well as complete systems
- Identifies specific system strengths and weaknesses
- Validates NMAC and physical protection procedures and plans
- Validates training effectiveness
- Providing data for financial analysis for continued support / upgrades





Performance Evaluation Approaches



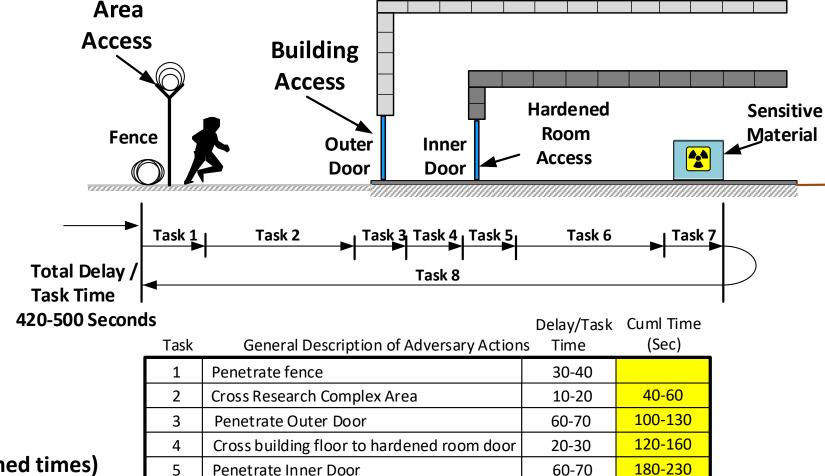


Integrated Evaluation



Example: Outsider Processing Building Secure Adversary Timeline – Base Case





Cross hardened room to container

Open container and gather material

Escape by same route used for entry

190-250

370-440

420-500

10-20

180-190

50-60

Total Delay/Task Time 420-500 Seconds

(Assumed times)

6

7





Summary

Performance Evaluation Programs benefit the nuclear security regime by:

- Promoting continuous improvement of physical protection systems
- Producing data for lifecycle management
- Providing data for financial analysis for continued support / upgrades
- Integrating response forces and physical protection