



Canadian Nuclear
Safety Commission

Commission canadienne
de sûreté nucléaire

Best Practices for Nuclear Guard Force Recruitment, Training, Deployment and Exercises: Perspective from the Canadian Regulator

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to the World Institute for Nuclear Security
June 14, 2010*



Outline



- Welcome
- Some context and perspective
- Challenges and the Canadian response
- The Canadian nuclear response force program
- Concluding remarks



The World is changing...

- ...requiring a multi-dimensional safety and security response...
- ...informed and enabled (amongst other things) by people, technology and procedures.

A Ten Year Perspective



Crises

- 9/11
- Anthrax Letters
- Tsunamis 2004
- Earthquakes (Haiti, Kashmir, China ...)

Multipliers

- Globalization of S&T
- Climate Change
- Resource Shortages
- Global Recession
- Critical Infrastructure

Anecdotal evidence that the pace of change is accelerating ...

Wars

- Afghanistan
- Iraq
- Sudan/Darfur
- Israel-Hamas
- Russia-Georgia
- The Balkans

Threats

- Failed/Failing States
- Global Terrorism
- Radicalization
- Pandemics
- WMD Proliferation
- Food Safety

Technology

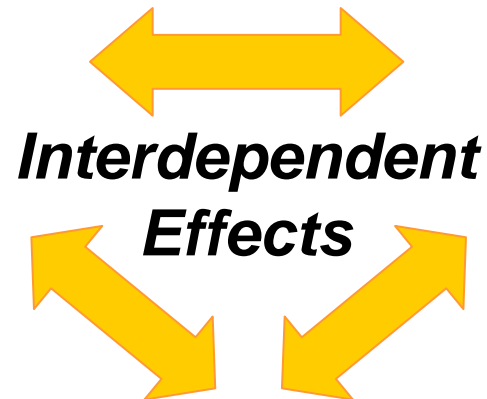
- Cyber Crime/Terrorism
- Navigation Warfare
- IEDs
- Biotechnology Dual-Use

Security: A 21st Century Perspective



National/Societal Attributes

Sovereignty
Health
Critical Infrastructure
Environment
Economy
Ideology
Institutions



Threats

Inter-State Conflict
Terrorism
Radicalization
Crime
Natural Disasters
Accidents

Threat Multipliers

Climate Change
Energy Security
Strategic Resource Scarcity
Financial Crisis
Globalization of S&T

Complex Challenges



- Range of conflicts, actors, interdependencies, fractures, asymmetries
- Humans are in the system – they make choices in response to change and to create change - part of creating the future
- Multidisciplinary in nature
- The very unpredictability of complex systems forces a change in how we think about the future
- Blurring of the safety-security boundary

Nuclear Facilities - How Robust Nuclear Security is Ensured in Canada



Security of personnel

- Enhanced screening techniques

Systems security

- Cyber security design
- Vulnerability assessments

Physical security

- Robust, dynamic site security measures

All supported by an integrated security intelligence capability.

Nuclear Facilities Security Measures – A Risk Graded Approach



- Integrated security intelligence gathering and dissemination
- Response plans and exercises
- Supervisory awareness program – identification and detection of insider threats
- Alarm systems, surveillance, and communications
- Threat assessment capabilities

Nuclear Facilities Security Measures – A Risk Graded Approach



- Access control with biometric verification
- Screening protocols for visitors, vehicles and packages (weapons or explosives)
- Forced vehicle entry protective measures
- Armed on-site nuclear response forces
- Medical, physical and psychological fitness certification for nuclear security personnel

Enhanced Protected Area Security



Upgraded Barriers



Biometrics

PA Vehicle Penetration Barriers



Marine Barriers



Enhanced Screening for Weapons and Explosives



Armed On-site Nuclear Response Forces and the Performance Testing Program



Benchmarking – Validate Training



- Licensees setup the Canadian Nuclear Security Officer Challenge
- Annual competition where nuclear security personnel compete against one another in high stress events



Benchmarking – Validate Training



- US SWAT National Championship
- US – DOE Security Protection Officer Team Competition (SPOTC)
- Ontario Tactical Advisory Body (OTAB) SWAT Round-up
- Canadian Law Enforcement Games



Concluding Remarks



- The world is changing
- Our responsibility to ensure the protection of NPPs and other high risk nuclear facilities remains



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