

## **Strengthening Radioactive Source Security**

Assessing and Establishing an Effective Security Culture

**Daniel Johnson Senior Adviser, WINS** 

### Outline



### Introduction to WINS

The Radioactive Source Security Challenge



### WINS Vision & Mission

All nuclear and other radiological materials and facilities are effectively secured by demonstrably competent professionals applying best practice to achieve operational excellence

To be the leader in knowledge exchange, professional development and certification for nuclear security management







# WINS Programs



**Sharing Operational Experience** 



**Knowledge Centre** 



**Training & Certification** 



**Evaluation** 



## Facilitated Workshops & Events



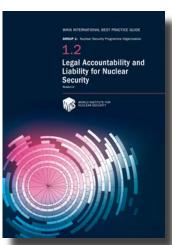






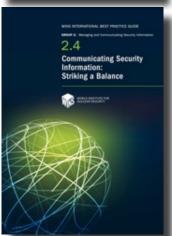


# **Best Practice Guides**



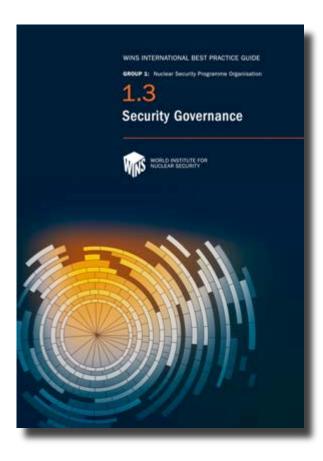






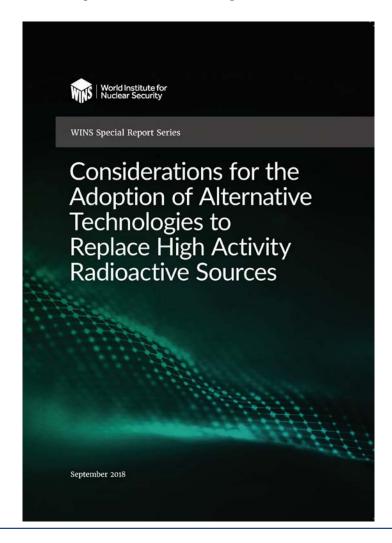








### WINS Special Report Series







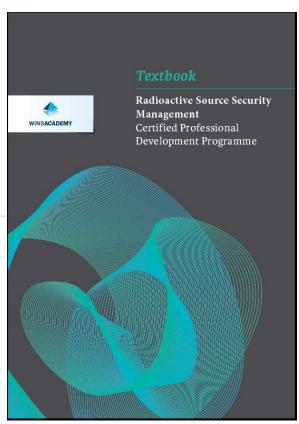
## WINS Academy





### Program Delivery Online & with Textbooks





5,100+ accredited test centers in over 180 countries worldwide



## **Evaluation Services**

### **Self-Assessment Tools**

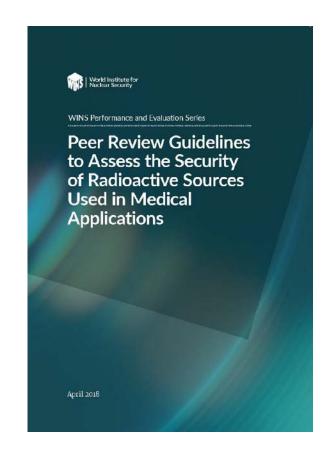
Tools to evaluate and measure programmes, processes, plans and more.

### **Survey Tools**

Guidance, questionnaires and associated software to conduct anonymous employee surveys with a statistical analysis of the results.

### **Peer Review**

Guidance developed for both nuclear organisations and organisations with radioactive sources





## WINS Gender Champions Initiative

WINS Programme will focus on identifying and overcoming the barriers to women's greater participation in nuclear security: we need all views to address the evolving threats



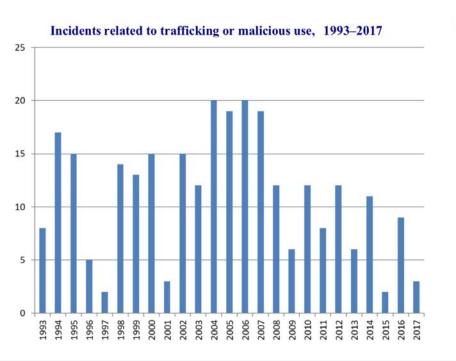
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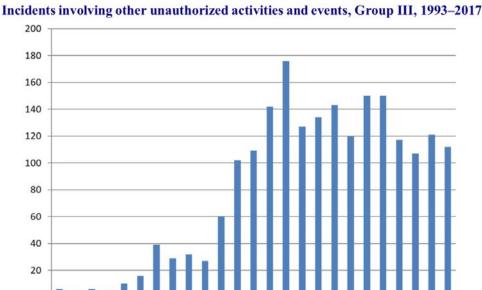
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## IAEA: Incident and Trafficking Database





2005

2002

2003

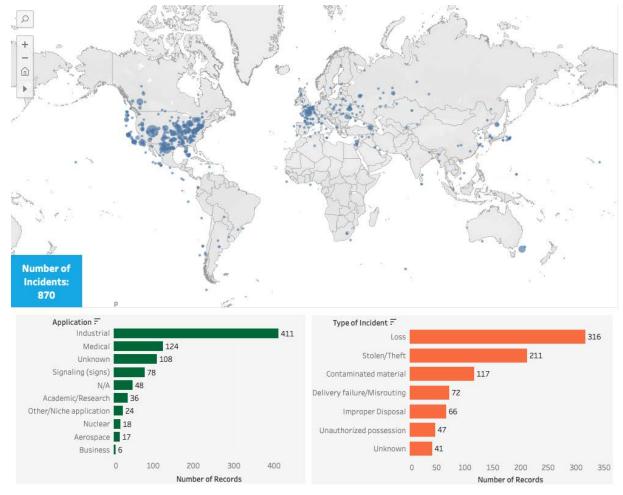
2001

The actual number of successful thefts of nuclear and other radioactive material is unknown.

Source: https://www.iaea.org/sites/default/files/18/12/itdb-factsheet-2018.pdf



### CNS Global Incidents and Trafficking Database, 2013-2017





#### GOAL: EFFECTIVE NUCLEAR SECURITY

### Management systems are well developed and prioritize security

- (a) Visible security policy;
- (b) Clear roles and responsibilities;
- (c) Performance measurement;
- (d) Work environment:
- (e) Training and qualification;
- (f) Work management;
- (g) Information security;
- (h) Operation and maintenance;
- (i) Continual determination of staff trustworthiness;
- (j) Quality assurance;
- (k) Change management;
- Feedback process;
- (m) Contingency plans and drills;
- (n) Self-assessment;
- (o) Interface with the regulator;
- (p) Coordination with off-site organizations;
- (q) Record keeping.

### Behaviour fosters more effective nuclear security

#### Leadership behaviour

- (a) Expectations;
- (b) Use of authority;
- (c) Decision making;
- (d) Management oversight;
- (e) Involvement of staff;
- (f) Effective communications;
- (g) Improving performance;(h) Motivation.

#### Personnel behaviour

- (a) Professional conduct:
- (b) Personal accountability;
- (c) Adherence to procedures;
- (d) Teamwork and cooperation;
- (e) Vigilance.

#### PRINCIPLES FOR GUIDING DECISIONS AND BEHAVIOUR

- (a) Motivation;
- (b) Leadership;
- (c) Commitment and responsibility;
- (d) Professionalism and competence;
- (e) Learning and improvement.

### NUCLEAR SECURITY CULTURE

#### BELIEFS AND ATTITUDES

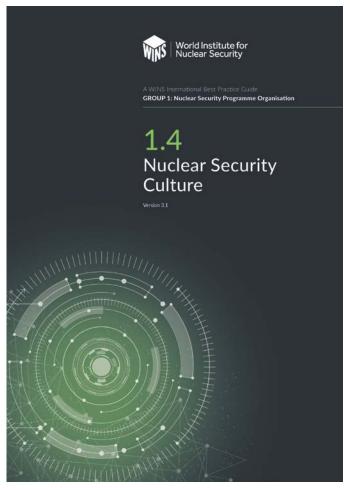
- (a) Credible threat exists;
- (b) Nuclear security is important.

IAEA
Guidance
on Security
Culture:
NSS 7

Source: https://www-pub.iaea.org/MTCD/Publications/PDF/Pub1347\_web.pdf



## WINS Guidance on Security Culture



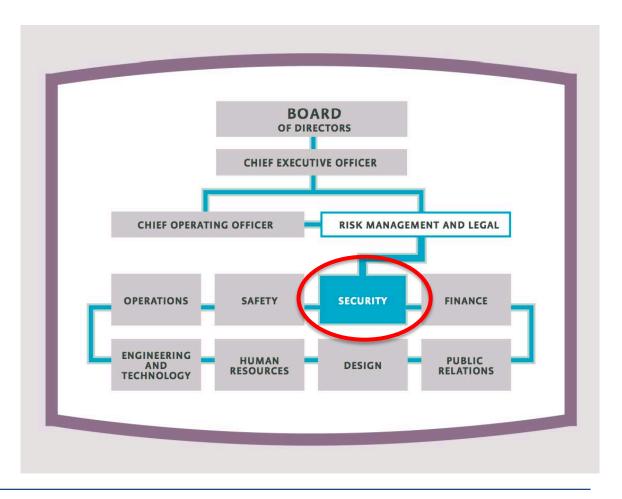




# Who Needs Security Training?

### **IAEA Guidance**

**Ensure that prime** responsibility for the security of nuclear material, other radioactive material, associated facilities, associated activities, sensitive information and sensitive information assets rests with the authorized persons.

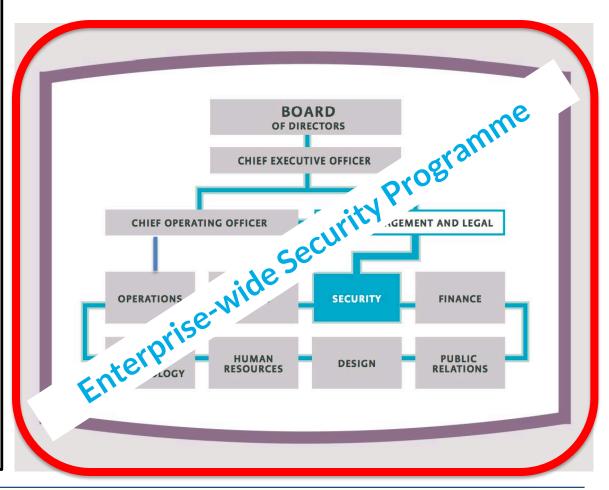




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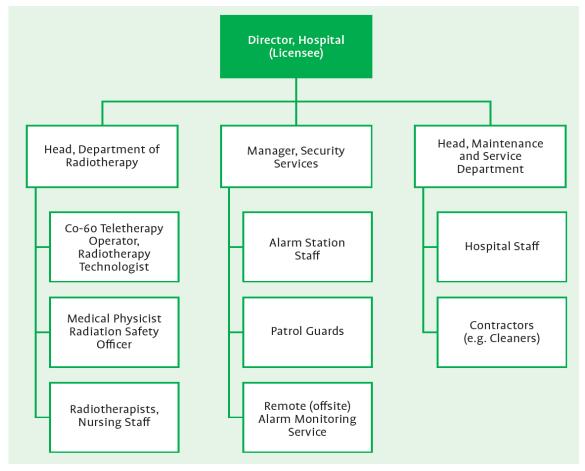
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## Key Roles with Accountability for Security (Example)





# Security Culture Summary

- 1. The threat is real.
- 2. Mitigating the threat requires a well trained and competent staff.
- 3. Leadership buy-in is critical.
- 4. WINS runs a number of programs that can support your organization.









# **Thank You**

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