

NUCLEAR ENERGY & GLOBAL SECURITY



T E C H N O L O G I E S

**IAEA Nuclear
Security Series**

**John Matter
Manager, International Security Projects Department
Sandia National Laboratories
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Nuclear Security Series

- **Comprehensive set of guidance documents**
- **Benchmarks for Member States and IAEA activities**
- **Link to obligations in international legal instruments**
- **Input and review by Member States prior to publication**
- **Recognition of information security and confidentiality issues**



Guidance Scope

- **Prevention and detection of, and response to, theft, sabotage, unauthorized access and illegal transfer or other malicious acts involving nuclear material and other radioactive substances and their associated facilities**



Nuclear Series Framework

- **Hierarchy of guidance documents:**
 - **Nuclear Security Fundamentals**
 - Objectives, concepts and principles that provide the basis for recommendations
 - **Recommendations**
 - Best practices that should be adopted for the application of the fundamentals
 - **Implementing Guides**
 - Elaboration of the recommendations and suggested measures for their implementation
 - **Technical Guidance**



Technical Guidance

- **Reference Manuals**
 - Detailed measures and/or guidance on how to apply the Implementing Guides in specific fields or activities
- **Training Guides**
 - Syllabus and/or manuals for IAEA training courses in nuclear security
- **Service Guides**
 - Guidance on the conduct and scope of IAEA nuclear security advisory missions



Development Process

- IAEA Office of Nuclear Security prepares and provides a Document Preparation Profile (DPP) to AdSec for their review and recommendations
- IAEA convenes a Consultancy Services Meeting(s) of Member State subject matter experts to discuss guidance and draft text
- IAEA convenes a Technical Meeting open to all Member States to provide comments on the draft guidance and document text
- 120-day Member State final review period prior to publication by the IAEA

Current Publications



Nuclear Security Series Framework

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Nuclear Security Fundamentals

Recommendations

Implementing Guides

Technical Guidance: Reference Manuals

Cross Cutting Themes

Nuclear Security Culture
Confidentiality of Nuclear Security Sensitive Information
State Regulatory and Operating Infrastructure Requirements for Security
Self Assessment of Nuclear Security Regimes

Nuclear Security Glossary
Model Regulations for Security of Nuclear and other Radioactive Material and Associated Nuclear Facilities

Personnel Security
Human Resource Qualifications
Terms of reference for the ITDB and Security Incidents Database

Nuclear Security Objectives and Fundamental Principles

Recommendations for Nuclear Security Prevention (INFCIRC/225/Rev.4 Successor)

Development and Maintenance of a Design Basis Threat
Protection Against Sabotage
Security of Radioactive Sources
Protection Against an Insider threat
Radioactive Waste Security
Guidance and Considerations for the Implementation of INFCIRC/225/Rev.4
Security of Radioactive Material
Nuclear Security Risk Management
Security Crisis Management and Emergency Response at Facilities

Self Assessment Guidelines for Protection Against Sabotage
Identification of Vital Areas at Nuclear Facilities
INPRO Manual on Physical Protection
Physical protection of Research Reactors and Associated Facilities
Security of Information and Instrumentation & Control Systems at Nuclear Facilities
Nuclear Material Accountancy Systems at Facilities
Technical specifications for Physical Protection Systems (TECDOC 1276 may be basis)
Physical Protection of NPPs
Physical Protection of Fuel Cycle Facilities
Consequence Assessment Methodology
Testing of PPS and Components and Response Exercise
Radioactive Material Accounting and Control
Security design of innovative reactors
TECDOC 1276, Handbook on the Physical Protection, Including Vulnerability Assessment

Recommendations for Transport Security

Security During the Transport of Radioactive Material
Security of Fissile Material in Transport

Nuclear Forensics Support
Technical and Functional Specifications for Border Monitoring Equipment
Monitoring for Radioactive Material in International Mail
International Catalogue of Sealed Radioactive Sources and Devices
Handbook on Combating Illicit Trafficking of Nuclear and Other Radioactive Material
Detection and Response for Radioactive Material at Seaports
Verifying the Content in the Transport of Radioactive Material
Detection of Radioactive Material at Locations Away from Borders
Developing a National Plan for Reacting to Unauthorized Acts Involving Nuclear and other Radioactive Material

Recommendations for Nuclear Security Detection and Response

Nuclear Security at Major public events
Response to Unauthorized Acts Involving Nuclear and Other Radioactive Material

ACTIVE

PLANNED

