



International Atomic Energy Agency



IAEA Transport Security Activities – a Practical Approach

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Overview

- **IAEA Nuclear Security Plan 2014-2017**
- **IAEA Transport Security Activities**
- **Practical implementation**
 - **Training and workshops**
 - **Exercises**
- **Summary**

Programme Elements of 2014-2017 NSP

- **Needs Assessment, Information and Cyber security**
- **External Coordination**
- **Supporting the Nuclear Security Framework Globally**
- **Coordinated Research Projects**
- **Assessment through Self-assessment and/or through Peer Review Missions**
- **Human Resources Development**
- **Risk Reduction and Security Improvement**

Nuclear Security of Materials and Facilities (MAFA) under Regulatory Control

- **Nuclear Security of material and facilities:**
 - **under regulatory control**
 - **in use, storage and transport**
 - **in civilian use**
- **For protection against unauthorized removal and sabotage**

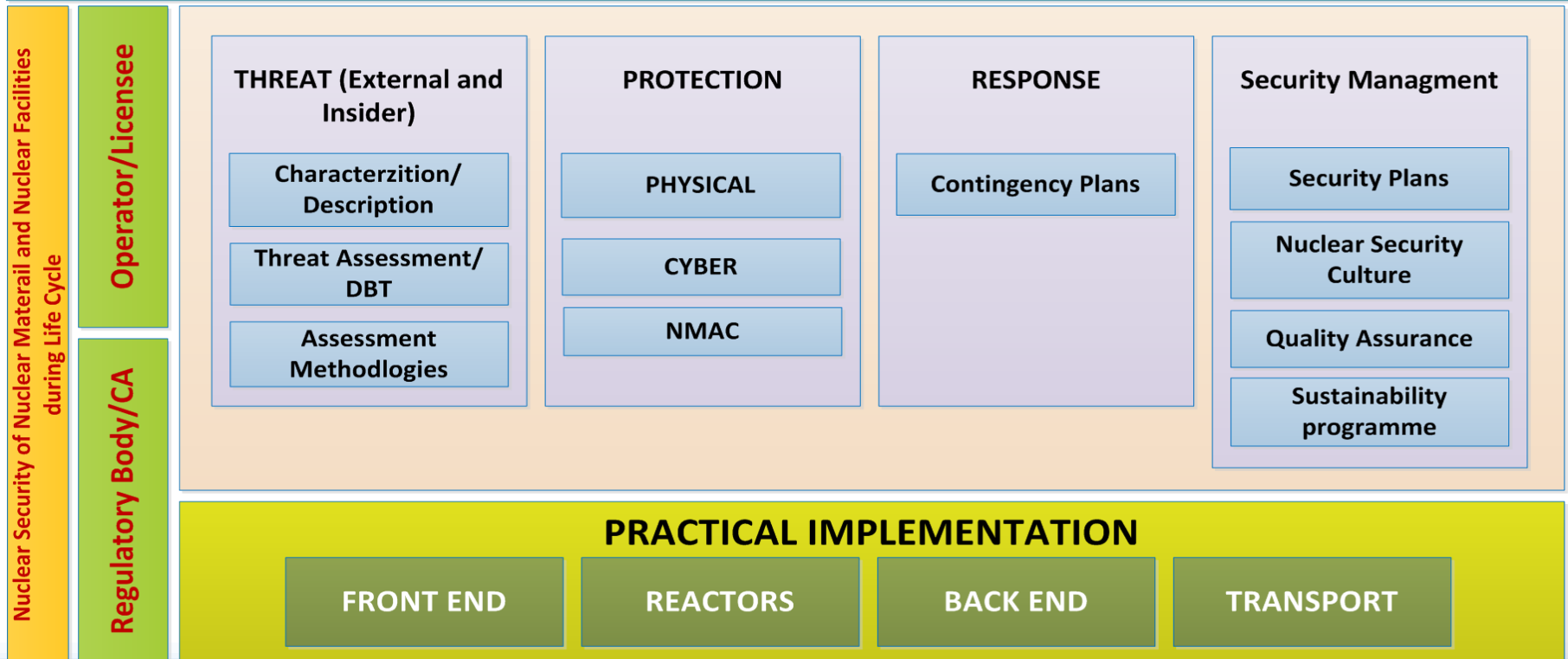
Elements of the Programme

- **Development of nuclear security guidance documents**
- **Practical implementation of IAEA guidance -improving security in Member States**
- **Development of security model exercises**
- **Establish CRPs on nuclear security**
- **Organize and hold international technical meetings, seminars and workshops**
- **Expert, assessment and advisory missions**
- **Capacity building**
- **Physical protection upgrades**

Thematic Areas - Nuclear Security of Regulated Facilities

Objectives and Essential Elements of a State's Nuclear Security Regime – NSS 20

SABOTAGE, UNAUTHORISED REMOVAL (NSS NO. 13, INFCIRC 225)



IAEA Transport Security Programme

- Comprises of the following components:
 - Nuclear security guidance
 - Peer review/assessment missions
 - Capacity building/Training
 - **Exercises**
 - CRP
- Assist Member States with
 - Legal and regulatory framework, State level
 - Practical implementation, Shippers/carriers

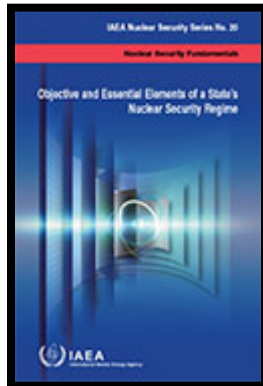
Nuclear Security Series Publications on Transport

Fundamentals

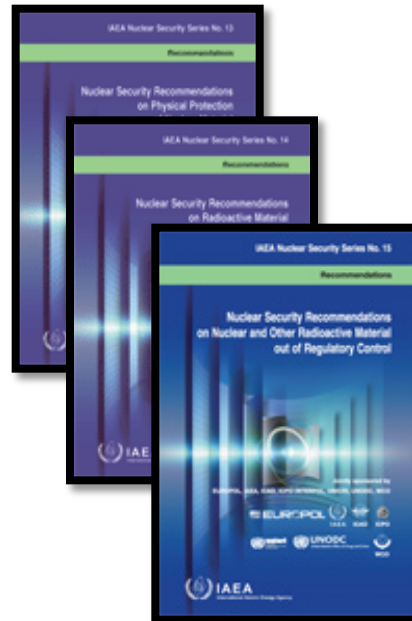
Recommendations

Implementing
Guides

Technical Guides



NSS 20
Objective and
Essential Elements
of a State's
Nuclear Security
Regime



NSS 13 (NM)
NSS 14 (RAM)
**NSS 15 (Material
Out of Regulatory
Control)**



**NSS 26-G (TNM) In
publication
process**
**NSS 9 (TRAM)
Under revision**



**NST053 Security of
NM and RAM in
Transport**



International Physical Protection Advisory Service (IPPAS)

- **Assist Member States in strengthening their national physical protection regimes**
- **Specific modules to cover**
 - **Security in transport of nuclear material, based on NSS 13**
 - **Security of radioactive material, associated facilities and associated activities, including transport**
- **Member States are encouraged to include transport security modules when requesting an IPPAS mission**

Transport Security Training

- **Raise awareness of the need for security during transport of nuclear and other radioactive material**
- **Enable MS to effectively develop and implement transport security frameworks**
- **The target audience**
 - **policy makers**
 - **regulators**
 - **shippers, carriers and**
 - **other organizations (such as law enforcement agencies, e.g. customs, police)**



Transport Security Training, 2015

- 1 International Training Course, NM/RAM (Japan) 16-20 November 2015
- 2 Regional Workshops, Africa and Asia
- 7 National Courses/Workshops



Transport Security Training, 2016

- **2 Regional Training Courses RAM**
 - **Asia and Pacific (TBD)**
 - **Latin America (Argentina)**
- **6 National Training Courses/Workshops**
 - **Additional requests expected**

Practical Activities – Model Exercises

- **Assist Member States to apply IAEA recommendations on security of nuclear and other radioactive material in transport**
 - understand the
 - need for exercises
 - types, nature and scope of exercises
 - experience one or more example exercise(s)
 - table top, field
 - **Transport security exercise guide developed (working material)**

Practical Activities – Model Exercises, cont'd.

- **Pilot exercise(s) “Pilot 2015” to test the draft exercise guide**
 - **Sweden, maritime transport of spent nuclear fuel**
 - **Table top (ttx), February 2015**
 - **Field, May 2015**
 - **International experts invited**



Practical Activities – Model Exercises, cont'd.

“Action at sea: transport security exercise conducted off the coast of Sweden”

“As in an action movie, ships, helicopters and uniformed people set the scene off the coast of Sweden on 6 May 2015 when national authorities conducted an exercise on security while transporting spent nuclear fuel.

The exercise was part of a joint project with the IAEA to test and evaluate a new IAEA guide on planning, conducting and evaluating transport security exercises.”

(IAEA Bulletin June 2015)





Experiences from the Swedish Pilot Exercises

- **Allow at least 18 months for planning**
- **Ensure high level commitment early**
 - **Financial and human resources**
- **Agree on purpose and overall objectives and sub objectives for the main participating organizations**
- **Scenario(s) can then be developed**
- **The planning helped strengthening cooperation between involved**

Experiences from the Swedish Pilot Exercises, cont'd

- TTX was the first time all stakeholders came together
- Educational for all participants,
 - to understand roles, responsibilities and capabilities of others
- Follow up and evaluation should be planned early

Practical Activities – Model Exercises, cont'd

- **Security in transport of radioactive material**
- **Pilot exercises, “Gate to Africa”**
 - **Joint Moroccan and Spanish table top and field exercises, in cooperation with IAEA, 27-29 October**
- **Input to the transport security exercise guide**



Gate to Africa Transport Security Exercise 27-29 October





Experiences from planning Gate to Africa

- **Bilateral exercises takes longer time to plan**
- **Establish a joint planning committee early**
- **Agree on realistic planning milestones early**
- **Follow up and revise planning as needed**

IAEA Transport Security Exercise Guide

- **“Preparation, Conduct and Evaluation of Exercises for Nuclear and Other Radioactive Material Transport Security” (Draft guide)**
- **Tested in pilot exercises**
- **Make available to Member States as interim guidance**
 - **Get experience and feedback from using it**

Technical Meeting (TM) 2016

- **Tentatively June/July 2016**
 - **Follow up on TM June 2014**
- **Possible topics**
 - **Draft revised NSS 9 after MS comments**
 - **Draft technical guide NST053**
 - **Coordination between IAEA NSS and UN Orange Book**
 - **Model exercises**
 - **Capacity building, training practical workshops**

Summary

- **The IAEA transport security activities comprises of the following components:**
 - **Nuclear security guidance**
 - **Peer review/assessment missions**
 - **Capacity building/Training**
 - **Exercises**
 - **CRP**
- **Assist Member States with**
 - **Legal and regulatory framework**
 - **Practical implementation**

Summary, cont'd

- Exercises should be conducted to ensure effective transport security arrangements
- Table top exercises are cost effective
- An open discussion climate should be established
- Follow up and evaluation should be agreed early
- IAEA is ready to assist and work together with Member States, upon request, to plan and organize transport security exercises

Thank you for your attention!

