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Joint ICTP-IAEA School of Nuclear Energy Management

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IAEA Nuclear Security Programme

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The IAEA Nuclear Security Programme

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Office of Nuclear Security

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Contents

- Nuclear Security Plan 2010- 2013
- IAEA Assistance
- Summary



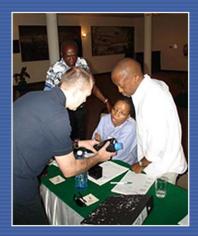
Nuclear Security Plan 2010—2013

Objective:

Contribute to global efforts to achieve worldwide, effective security wherever nuclear or other radioactive material is in use, storage and/or transport, and of associated facilities, by supporting States, upon request, in their efforts to establish and maintain effective nuclear security through assistance in capacity building, guidance, human resource development, sustainability and risk reduction.









Four elements of the Plan

- Needs assessment, information collation and analysis
- Contributing to the enhancement of a global nuclear security framework
- Providing nuclear security services
- Risk reduction and security improvement

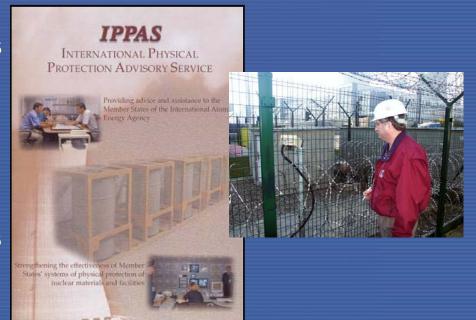
Resources: A minimum requested for a serious programme: €23.1m/year

Mechanisms established to take on a substantive, higher value programme



Nuclear Security Support Activities

- Advisory Services to assess needs
- Human Resource Development
- Guidelines Development
- Upgrades of Technical Capabilities
- Research & Development
- Information Exchange & Analysis
- Cooperation & Coordination







Advisory Services to Assess Needs

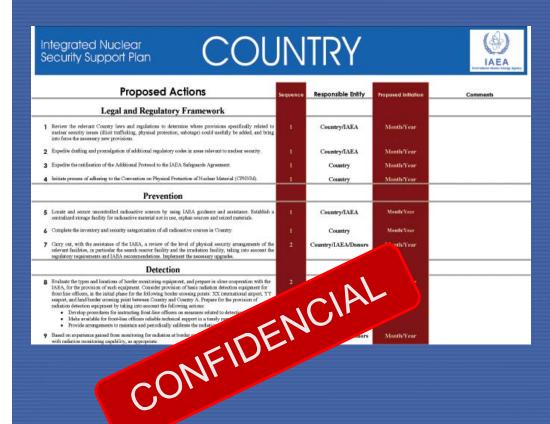
- Nuclear Security Advisory Services
 - INSServ International Nuclear Security Advisory Service
 - IPPAS International Physical Protection Advisory Service
 - ITE International Teams of Experts
- Other Services
 - IRRS Integrated Regulatory Review Service



 ISSAS - IAEA State System of Accounting for and Control of Nuclear Material Advisory Service



Integrated Nuclear Security Support Plan (INSSP)



- Based on findings from a range of nuclear security missions and other information
- Developed in consultation with the State and tailored to the State's specific needs



Human Resource Development

Education

EducationalProgramme inNuclear Security



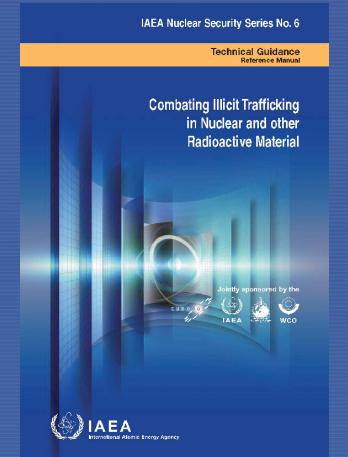


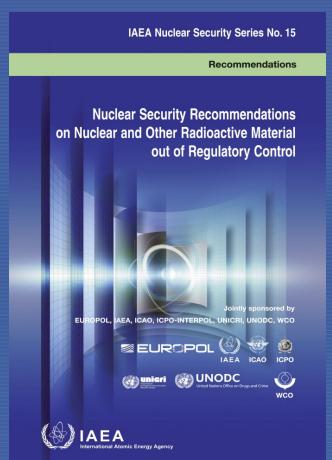


Training

- General Training
- Specialized Training
- Training of Trainer
- On-the-Job Training
- Fellow-ships
- Technical Visit

Guidelines Development





http://www-pub.iaea.org/MTCD/publications/ResultsPage.asp



Upgrades of Technical Capabilities

Physical protection & accountancy & control upgrades

Detection and response equipment at border crossing and venues











Research & Development

Coordinated Research Projects

- 1. 'Development of Methodologies for Risk Assessment and State Management of Nuclear Security Regime'
- 2. 'Development and Implementation of Instrument and Methods for detection of criminal or intentional events involving nuclear and other radioactive material'
- 3. 'Application of nuclear forensics in illicit trafficking of nuclear and other radioactive materials'





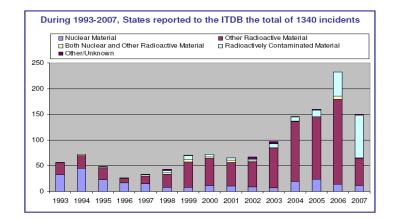




Information Exchange & Analysis

	IAEA Illicit Trafficki
	in Nuclear Materials and Other Radioactive Sou
	Incident Notification For
Status: (check one) Initial Notification Update of Previous Incident	AEA ID#: 2002-03-002 (Einerr the IAEA ID# IF It is an update. Otherwise, leave blank)
_ Topological transport	Send to: IAEA Illicit Trafficking Database Offi FAX: 43-1-2600-29250
	E-mail: trafficking@iaea.org
information per used families excellent may be disseminated. Date of Incident: 15-Mar-02 (day-month-year formst)	Country: Lithuania (where incident occurred)
Nature of Incident: DISCOVERY (That or Unsulhorized Possession/Use/Transfe	
etc)	station, etc.)
Materials involved in Incident:	1
	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7
Nuclear Material	Radioactive Sources
Nuclear Material	Radioactive Sources Nuclide Activity* (⊠ Bq or □
	Nuclide Activity*
□ Natural Uranium ☑ LEU (<20% ²³³ U) □ Depleted Uranium □ HEU (>20% ²³³ U) □ Thorium □ U-233	Nuclide Activity*
□ Natural Uranium ⋈ LEU (<20% ²³³ U) □ Depleted Uranium □ HEU (>20% ²³⁸ U)	Nuclide Activity*
Natural Uranium LEU (<20% ²⁵ U) Depleted Uranium HEU (>20% ²⁵ U) Thorium U-233	Nuclide Activity* (23. Ba or I)
Natural Uranium	Nuclide Activity*
Natural Uranium	Nuclide Activity* (63 Ba or I). *note: Bq=1 disintegration/s, Ci=3.7x10*Bq
Natural Uranium	Nuclide Activity* (83. Ba or II. *note: (Bq=1 disintegration/s, 1 Ci=3.7x10 *Bq ted water. ex.) d. dimensions, etc.)
Natural Uranium	Nuclide Activity* (82 Ba or I). *note: Bq=1 disintegration/s, Ci=3.7s,10 ¹⁸ Bq sted water, etc.) d. dimensions, etc.) staken or requests for IAEA Lab Analysis or other support

	Incident / Report			
	Incident Incident Ar	nalysis Attribute INCIDENT - State has confirmed		
	Rating:	•		
	Analysis - Public:	On 2000-04-19, Georgian authorities in Batumi seized 920 grams of highly enriched (about 30% U-235) UO2 fuel pellets. The pellet mass and geometry, together with the reported enrichment level, suggest that the pellets were from fast reactor fuel. Four Georgian citizens, residents of Batumi, were arrested. According to press reporting, they were trying to smuggle the material into Turkey.		
	Analysis - Confidential:	A		
	REPORT: State / 2	000-05-04 2000-05-04 State		
	Report Involved Materials Part II of State Report Report Docs/Images			
Ε		Counted 🗸		
Ξ	Report Date:	2000-05-04 ▼ Report Type: State ▼		
	Material Origin State:	Material Origin Location:		
	Report Source:	Department for Standardization, Metrology and Certification of Georgia		
Ξ	Chemical Description:	Unknown		
	Physical Description:	5 Fragments and 380 unbroken pills with central hole 1,8 mm. The weight of each pill is approx. 2,4 g. h+99 ± 0,3		
	Agency Comments:	On 2000-05-04, the IAEA received a notification from Georgia about a seizure of HEU (30% U-235) in batumi on 🔄 13 April 2000. Detailed laboratory analysis of the material was attached to the report.		
	State Part 1 Comments:			
		✓		





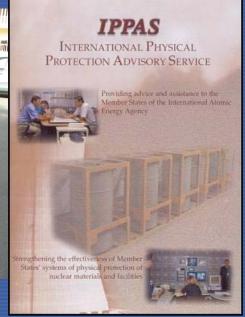
Co-operation with International Organizations



Nuclear Security Assistance

- Funded through
 IAEA Nuclear
 Security Fund
- Requests for assistance can be addressed directly to the Office of Nuclear Security











Summary

The threat of *Nuclear Terrorism* is real & immediate.

The IAEA has developed a comprehensive Nuclear Security Plan, including a extensive assistance program, to support, upon request, States in their efforts to establish and maintain sustainable nuclear security regimes.



For further information please visit our website:

http://www-ns.iaea.org/security/

