Protecting Against Acts of Nuclear Terrorism Nuclear Security

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Nuclear Security: Definition

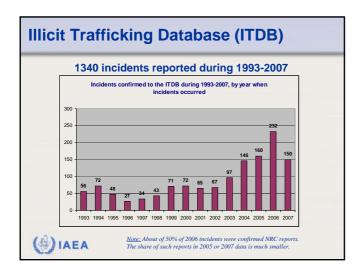
The prevention and detection of, and response to, theft, sabotage, unauthorized access, illegal transfer or other malicious acts involving nuclear material, other radioactive substances or their associated facilities.





• Nuclear Safeguard – Non-proliferation • Nuclear Security – Protect Against Terrorism • Nuclear Safety – Technical Accident Prevention Holistic Approach Safeguard Safety Security Safety Security

Established in 1995 Unique network of points of contact connecting 100 States and several international organizations William Company and Contact Connecting 100 States and several international organizations William Contact Connecting 100 States and several international organizations William Contact Connecting 100 States and Several international organizations William Contact Connecting 100 States and Several international organizations William Contact Connecting 100 States and Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organizations William Contact Connecting 100 States And Several International Organization

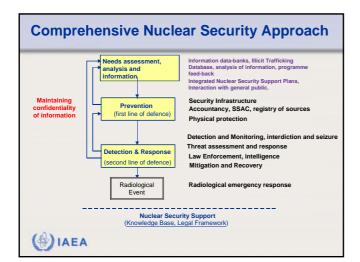




Significant strengthening of the international legal instruments for nuclear security

- Convention on the Physical Protection of Nuclear Materials
- 90% IAEA Member States are now party
- CPPNM Amendment, progress, but slow.
- Convention on the Suppression of Acts of Nuclear Terrorism
- UN Security Council Resolutions 1540 and 1373
- Obligations are binding for all States.
- Code of Conduct on the Safety and Security of Radioactive Sources
- Safeguards Agreements, Additional Protocols; the Agency's safeguards system
- Nuclear Safety Conventions





Growing nuclear energy demand – requires solid security arrangements

- Vitae nova of nuclear energy; hope and challenge.
- A significant growth in nuclear energy, means:
 - increased production of source material,
 - more fuel cycle facilities or throughput
 - More transports
 - More nuclear power plants and waste disposal facilities.
- Nuclear security must be systematically implemented, part of the commonly accepted norm.
- The IAEA plays a crucial role for that purpose, the only international organization with a mandate in nuclear security.



Effective nuclear security in any State includes Effective legal and regulatory structures Up-to-date physical protection for sites/locations with nuclear and radioactive substances Accounting, control and registry of all materials Effective border control systems Security at major public events Threat reduction for vulnerable materials or facilities/locations, including repatriation to suppliers Human resource development

Research and development

A) IAEA

Nuclear security culture and sustainability

IAEA Nuclear Security Series of Documents IAEA Nuclear Security Series will: Facilitate international implementation of legal instruments and domestic/national policy Hierarchical structure: Fundamentals; essential elements recommendations Implementing guides Synergies with nuclear safety and safeguards

IAEA contributions Nuclear Security Information Platform • Enhanced ITDB & other databases • Continuous improvement of quality of data in cooperation of MS • Enhanced analysis to identify nuclear security needs and priorities • Nuclear Security Information Products that are helpful for States and for the general public.

N.B. Maintaining confidentiality of sensitive information

(A) IAEA



Threat reduction

Physical protection upgrades, repatriation to supplier

- The Agency supported improvements of physical protection.
- The Agency assisted recovering, conditioning and repatriating spent research reactor fuel or dangerous radioactive sources.
- Activities in a large number of States, all regions







Effective Border Control

- Enhanced capabilities to detect, interdict, and respond to illegal acts involving nuclear and other radioactive material and associated facilities, in a large number of States
- Equipment & testing services
- Expert advice
- Research & Development







Nuclear Security at Major Public Events

The Agency continued to assist States in developing and implementing measures to prevent incidents of nuclear terrorism at major public events, with support and advice and technical support in the areas of detection, interdiction and response.

- 2004: Summer Olympic Games, Greece
- 2006: Football World Cup, Germany
- 2007: Pan-American Games, Brazil
- 2008 LAC-EU Summit and APEC CEO Summit, Peru
- 2008: Summer Olympic Games, China





Human Resource Development





- •Coordinating/convening a large number of training and education events; reaching most Member States
- •Efforts in support of training programmes in Member States, e.g. National N.S. Support Centres
- •Graduate educational programme at universities



Integrated Nuclear Security Support Plans COUNTRY Appa Comparison Proposed Actions Legal and Regulatory Framework 1. Propose of actions of inspire or a residence of the first and actions of the first and actions of the first action of the fi

International Cooperation and Coordination

- Member States and not yet Member States
- Interpol, Europol, WCO, OSCE, UNICRI, ITU/JRC, UNODC, etc.
- Conferences, meetings and workshops
- Expert support: development of Nuclear Series documents, peer reviews and missions
- Outreach and information exchange; e.g. information clearing house and international coordination



