



International Atomic Energy Agency

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IAEA Nuclear Security Activities

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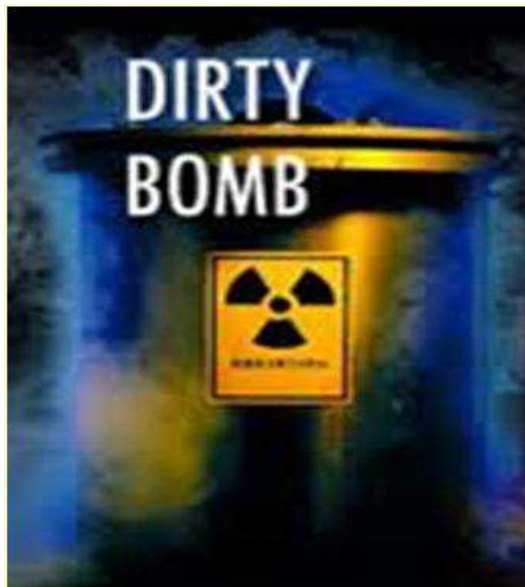
Outline

- **Background**
- **Achievements**
- **Conclusions**



Nuclear Security Concerns

- Nuclear and other radioactive material that is not properly secured
- Possible malicious acts involving such material



What is the Risk?

- Theft of NM to make IND
- Theft of RM to make RDD or RED
- Sabotage of facility or transport

Nuclear Security



Prevention



Detection



Response

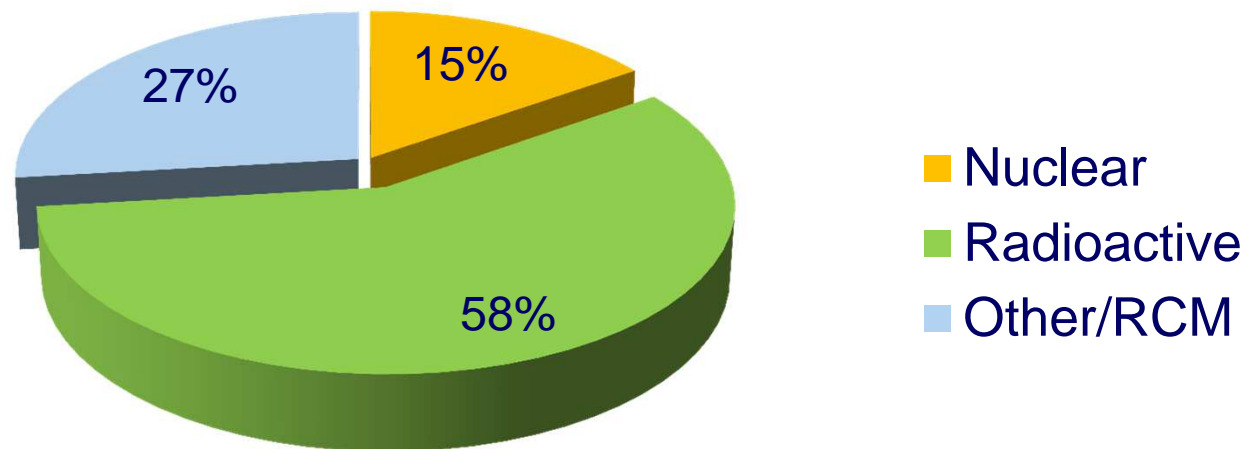
... criminal or intentional unauthorized acts involving or directed at **nuclear material, other radioactive material, associated facilities, or associated activities.**

Measures taken to control and protect nuclear and other radioactive material from falling into the wrong hands

Incident and Trafficking Database

From January 1993 to June 2015, over 2800 incidents were reported to the ITDB by participating States and some non-participating States

Confirmed incidents by material type



IAEA's Vision for Nuclear Security

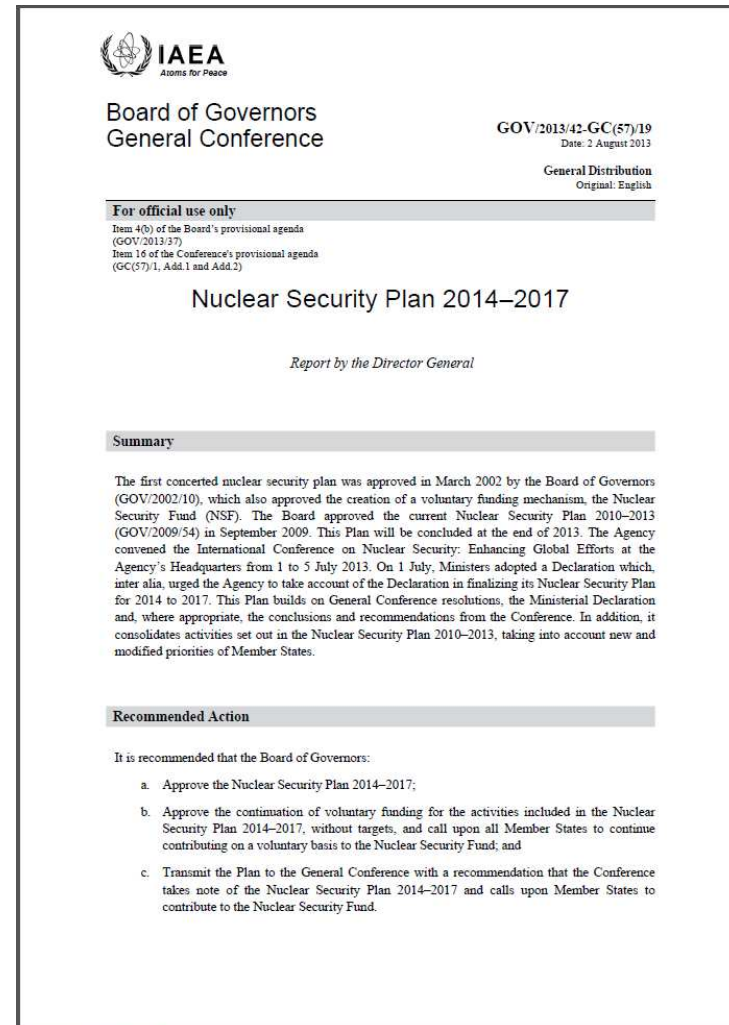
Achieving worldwide, effective security wherever nuclear or other radioactive material is in use, storage and/or transport, and of associated facilities and activities



A global threat demands a global response.

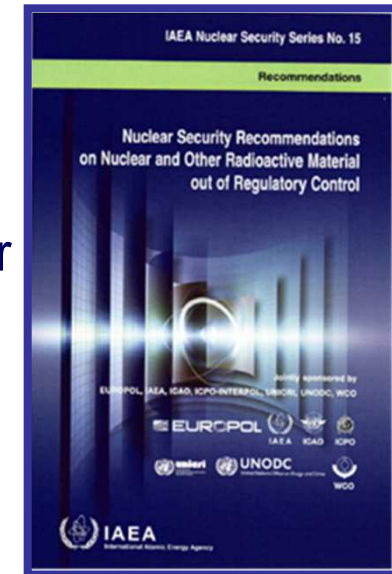
Nuclear Security Plans

- Three Nuclear Security Plans (NSPs) completed, 2002-2005, 2006-2009, 2010-2013
- Current NSP 2014-2017 underway



IAEA Assistance & Cooperation

1. Encouraging and facilitating adherence to international legal instruments
2. Developing Nuclear Security guidance
3. Peer Reviews / Advisory Services, Integrated Nuclear Security Support Plans (INSSPs)
4. Education & Training
5. Major public events
6. Risk Reduction



1. Legal Instruments

Platform of international legal instruments, binding and non-binding

- Convention on the Physical Protection of Nuclear Material (152 State Parties)
 - *SEA Countries: Cambodia, Indonesia, Lao P.D.R., Philippines, Singapore and Viet Nam*
- 2005 Amendment (86 Contracting Parties) – Not yet entered into force (**14 CP needed**)
- Nuclear Terrorism Convention and other counter terrorism conventions
- UNSC Resolutions 1373, 1540, 1977

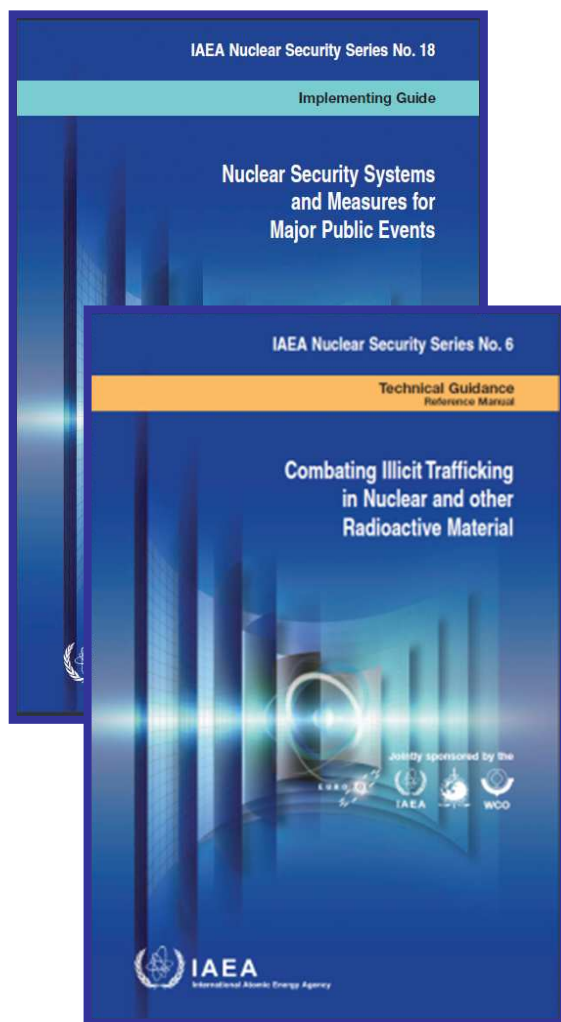
- INFCIRC/225/Rev 5 published as IAEA Nuclear Security Series No. 13
- Code of Conduct for the Safety & Security of Radioactive Sources

All instruments support IAEA taking important role for implementation through its programmes:

- Development of internationally accepted guidance and standards
- Provision of assistance (e.g. peer review & advisory services, E&T, equipment...)



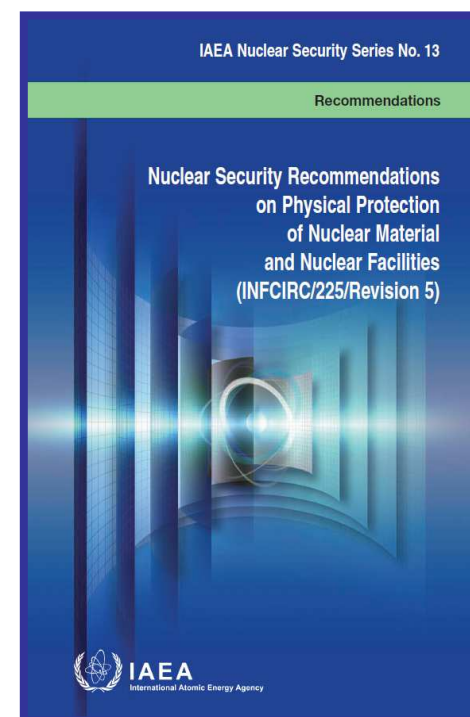
2. IAEA Nuclear Security Series



The **Nuclear Security Series (NSS)**, developed in close consultation with Member States' experts, bring together best practices acceptable to the international community for broad implementation.

The **Nuclear Security Guidance Committee (NSGC)**, open to all Member States, makes recommendations on the development and review of the Nuclear Security Series. **SEA Countries in NSGC: Indonesia, Malaysia, Philippines and Viet Nam. We will welcome more!**

26 NSS Publications include:
1 Fundamentals
3 Recommendations
14 Implementing Guides
8 Technical Guidance



3. Peer Reviews / Advisory Services

Provided upon request from States

International Nuclear Security Advisory Service (INSServ)

Focuses on:

- nuclear and other radioactive material **out of** regulatory control
- general overview of key elements of national nuclear security regime
- Identification of needs for improvement of legal and institutional framework and technical means
- 77 INSServ to 65 States

International Physical Protection Advisory Service (IPPAS)

Focuses on:

- nuclear and other radioactive material **under** regulatory control
- in depth review of physical protection regime
- Identification of needs for enhancement at state and facility (activity) level, including transport
- 66 IPPAS to 43 States and in the IAEA Laboratories in Seibersdorf
- 12 requests for 2015-2016



4. Education & Training

Human resource development is the key to sustainability

Education:

- Master of Science programme in nuclear security (IAEA NSS.12)
- Master programme rolled-out in six Universities in 2013
- International Nuclear Security Education Network, 2010, providing a forum for collaboration in activities for nuclear security education



Training:

- Over **30** different nuclear security training courses designed
- More than **80** training events run per year
- Over **19,000** participants from **120** States trained since 2002
- Nuclear Security Support Centres
- Six E-Learning Modules available in December 2014



5. Major Public Events

- With a large number of participants and spectators, the scale of major public events (MPEs) makes them a vulnerable target
- The IAEA assists States in planning, training, and equipping themselves to address this reality
- Guards, guns and gates are no longer enough

IAEA support provided to:

Olympic Games (Greece, China)
Football World Cup (Germany, South Africa)
Pan American Games (Brazil, Mexico)
South American Games (Colombia)
UEFA Cup (Poland, Ukraine)
Africa Cup of Nations (Gabon)
2014 FIFA World Cup (Brazil)
2016 Olympic Games (Brazil)
2016 Para-Olympic Games (Brazil)

IAEA support provided to SEA:

2013 Entrepreneurship Summit (Malaysia)
2013 Water Festival (Cambodia)
2015 APEC Summit (Philippines)
2016 The Hung Temple Festival (Viet Nam)



6. Risk Reduction

- **Nearly 20 sites in 2014 in addition to over 160 PP upgrades from 2002-2013**
- **Around 2,100 kg of high enriched uranium (HEU) removed from research facilities across the globe**
- **Over 6000 radioactive sources secured**
- **More than 4300 instruments provided**



Conclusions

- **While responsibility for nuclear security within a State rests entirely with that State, consequences of a major security failure would be extremely grave and could transcend borders.**
- **IAEA is a worldwide platform promoting international cooperation in nuclear security involving more than 160 countries & over 20 Organizations and Initiatives.**



Conclusions - Cont'd

- **Global threat requires global response.**
- **No one alone can do it, but together we can do it !**

...Thank you for your attention



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