

## International Basic Safety Standards: A Way Forward to Harmonized Radiation Safety Regulations

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### Role of the IAEA in Radiation Safety

... to **(1) establish or adopt**, in consultation and, where appropriate, in collaboration with the competent organs of the United Nations and with the specialized agencies concerned, **standards for safety for protection of health and minimize of danger to life and property**, and to **(2) provide for the application of these standards**..., at the request of the parties, ... or at the request of a State...

from Statute of the IAEA, Article III.A.6



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### Need for International Safety Standards

While radiation protection and safety is a **national responsibility**, **international standards** and approaches:

- (1) promote **consistency**;
- (2) help to **provide assurance** that nuclear and radiation related technologies are used safely; and
- (3) facilitate **international technical cooperation and trade**.



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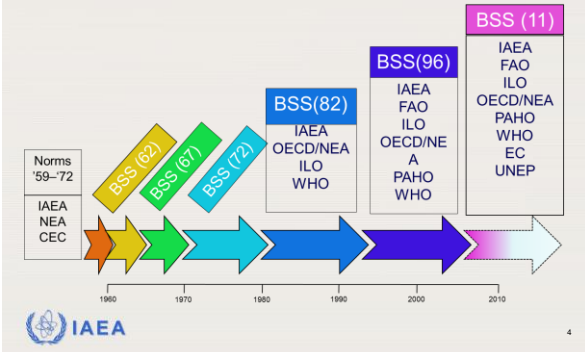
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**Towards harmonized approaches:  
cooperation with specialized Agencies concerned**




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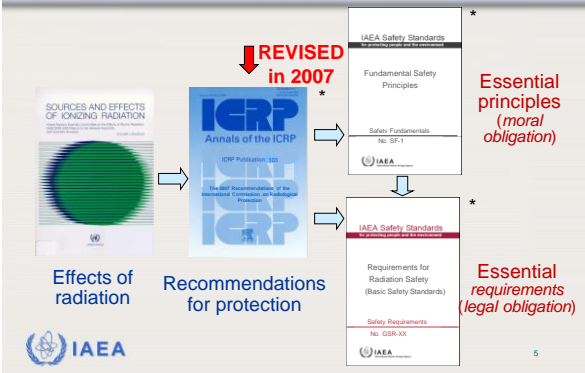
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**Radiation Safety Paradigm**




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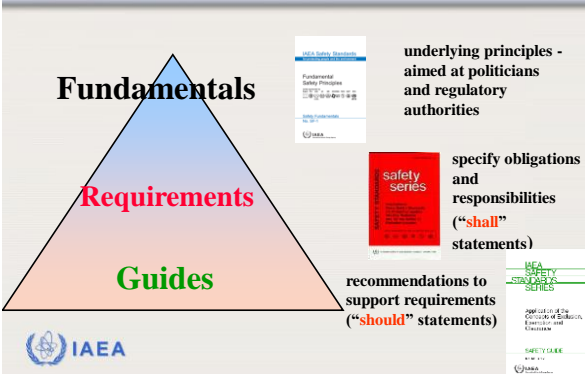
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**Hierarchy of IAEA Safety Standards**




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### Medium Term Strategy in the Area of Radiation Safety, Monitoring and Remediation aiming to

- Enhancing **protection of people, the environment and society** connected to wider use of radiation sources and practices
- Improving infrastructure for the **safe use of radiation in medicine**, and addressing more closely radiation protection of patients
- Identifying issues in **occupational radiation protection**, particularly emergency workers and volunteers
- Developing a **radon programme**, etc.




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### Challenges in Radiation Protection

The radiological impact of the Fukushima accident has caused **concern not only regarding implementation of current radiation safety and radiation protection criteria and standards**, but also a strong demand for their **appropriate explanation and communication** among professional communities, regulatory authorities and policy making organs. As an example, there is confusion on the **use of quantities and units** related to radiation measurements and **dose limitations**.




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### Actions in Radiation Protection as Included in the IAEA Nuclear Safety Action Plan

*To ensure the on-going protection of people and the environment from ionizing radiation following a nuclear emergency Member States, the IAEA Secretariat and other relevant stakeholders shall*

- facilitate the use of available information, expertise and techniques for **monitoring, decontamination and remediation both on and off nuclear sites** and the IAEA Secretariat to consider strategies and programmes to improve knowledge and strengthen capabilities in these areas.
- facilitate the use of available information, expertise and techniques regarding the removal of damaged nuclear fuel and the **management and disposal of radioactive waste** resulting from a nuclear emergency.
- share information regarding the **assessment of radiation doses and any associated impacts on people and the environment**.




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## Examples of Planned Activities and Programmes in Radiation Protection

- **Bonn Call for Action** (Bonn, Germany, 3-7 December 2012)
- **BSS Implementation and Follow-up Workshops** (Central America in 2012, Europe in 2012, other regions and countries being planned or considered for 2013-14)
- **2<sup>nd</sup> International Conference of Occupational Radiation Protection** (~ December 2014)
- International Expert Meeting on **Radiological Impact of the Fukushima Dai-ichi NPP Accident** – Analyses and Consequences (~ February 2014)
- **Assistance Programme to Fukushima Prefecture** on Radiation Monitoring and Remediation (commencing in 2013)



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## Assistance in Response to Radiological Accident in the Fukushima Prefecture

- Remediation
- Monitoring
- Land Use
- Decommissioning and Management of Radioactive Waste
- Management of Radiation Phobia and Post-Traumatic Stress
- Public Information



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## Thank you for your attention



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