



# **Views of the Commission on Safety Standards on effective and harmonized use of the IAEA safety standards**

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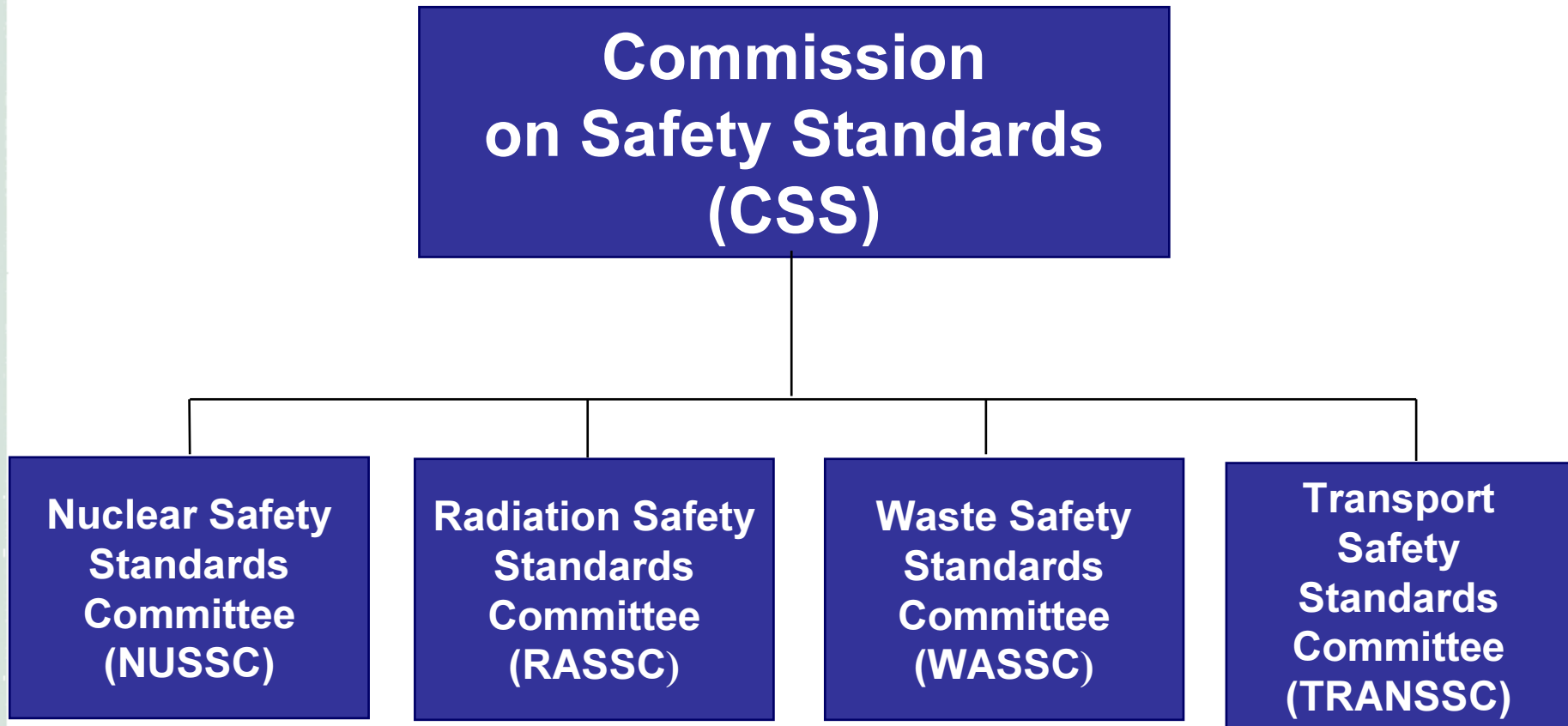
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# Commission & Committees






# Safety Standards Categories



IAEA Safety Standards  
for protecting people and the environment

Fundamental  
Safety Principles


Safety Fundamentals



IAEA Safety Standards  
for protecting people and the environment

Predisposal  
Management of  
Radioactive Waste


General Safety Requirements Part 5  
No. GSR Part 5



IAEA Safety Standards  
for protecting people and the environment

Design of the  
Reactor Core for  
Nuclear Power Plants

Safety Guide  
No. NS-G-1.12



Principles for protecting people and environment

Requirements to be applied to meet these principles – “shall”

Recommended ways of meeting the requirements – “should”





# Current Status of the Safety Standards

## ➤ Since the establishment of the Safety Standards Series

- 1 Safety Fundamental issued in 2006
- 15 Safety Requirements issued up to 2010
- 86 Safety Guides issued up to September 2010

## ➤ Updated “Status of Safety Standards” on the web site : <http://www-ns.iaea.org/standards/status.pdf>

- Includes hyperlinks to the published safety standards in official languages
- Includes general information and a link to the IAEA Safety Glossary





# Status of the IAEA Safety Standards

## Safety Standards are:

- Non binding on Member States but may be adopted by them
- Binding for IAEA's own activities
  - Review services: IRRS for nuclearised countries or new comers, OSART,
- Binding on States in relation to operations assisted by IAEA or States wishing to enter into project agreements with IAEA





# Use of Safety Standards

## Notable use by MS:

- **Formally adopted**
- **Direct use of standards**
- **Used as reference for review of national standards (by many other States, also by Industry) and as benchmark for harmonization**





# Harmonisation in a few words

- **The primary objective of harmonization** is to provide a high and comparable level of safety in all countries involved
  - Harmonization doesn't mean standardization
- **Harmonization is not only the role of safety authorities**, but also of operators and manufacturers
  - The specific choices and practices of operators and manufacturers were taken into account in the drafting of national regulations







# Harmonized use of Safety Standards

- **AIEA**

- Review meetings for nuclear safety convention and joint convention (radioactive waste and spent fuel)
- Peer review services IRRS (peer reviews of safety authorities) and OSART
- International or regional networks

- **OECD/NEA**

- CNRA and CSNI Working Groups





# Harmonized use of Safety Standards

- **European construction**

- European Directive on nuclear safety recently issued
- WENRA's and HERCA's harmonization work
- ETSON network of technical support organizations

- **New reactors**

- The “Multinational Design Evaluation Programme” Initiative (MDEP); secretariat by NEA





# Harmonization initiatives

- WENRA : a club of European nuclear regulators
- The IAEA Safety Standards were the basis for the WENRA's « Safety reference levels »
- A process on a voluntary basis
- aiming at reaching high and harmonized levels of safety across Europe and continuously improving safety
- An original approach
  - Not aiming at developing a stringent European technical regulation
  - Not establishing new technical standards
  - Rather, having common safety references, based on already existing documents such as the IAEA Safety Standards





# Harmonization initiatives

- **Development of « safety reference levels »**
  - For existing power reactors
  - For interim storage and decommissioning
- **The « safety reference levels » were largely based on IAEA safety standards**
  - Safety requirements
  - Safety guides
  - In very few cases, completed by national regulations
    - Showing that the IAEA SS were well adapted
- **Through the WENRA « safety reference levels », the substance of the IAEA standards will be taken into account in the national regulations of European countries by the end of 2010, and implemented in the nuclear facilities**





# Harmonization initiatives

- **HERCA : Heads of European Radiation Control Authorities**
- **One of the main objective : to promote exchange of experience and common approaches to radiation safety and regulation, in particular to solve the issues raised by the implementation of radiation protection directives.**
- **Link between HERCA and IAEA/BSS through RASSC Chairman**
- **Avoid duplication of the works coordinated by IAEA**
- **Mutual benefit between HERCA and IAEA : for instance, radiation passbook**





# Conclusions

- **Safety Standards** : global reference used worldwide by MS to ensure a harmonized high level of safety for protecting people and the environment.
- **A new step** : work launched between the CSS and AdSec :
  - for developing safety and security synergies and interfaces and
  - examining the feasibility of the establishment of a nuclear safety and security standards series.

