39th Meeting of the Radiation Safety Standards Committee
40th Meeting of the Waste Safety Standards Committee

4-5 November 2015

Agenda Item RW3.3


Trevor Boal, RSM/NSRW
Hierarchy of Safety Standards

- Safety Fundamentals
- General Safety Requirements (Applicable to all facilities and activities)
- Specific Safety Requirements (Applicable to specified facilities or activities)
- General Safety Guides (Applicable to all facilities and activities)
- Specific Safety Guides (Applicable to specified facilities or activities)
General Safety Requirements

GSR Part 3: Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards

GSR Part 7: Preparedness and Response for a Nuclear or Radiological Emergency

GSR Part 1: Governmental, Legal and Regulatory Framework for Safety
## Structure for SG for public and environment

<table>
<thead>
<tr>
<th>Planned</th>
<th>Emergency</th>
<th>Existing</th>
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<tbody>
<tr>
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<tr>
<td>DS432 (radiation protection of the public and the environment)</td>
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<td>GSG-5 (justification) DS458 (consumer products) DS442 (discharges) DS427 (environmental impact analysis)</td>
<td>GS-G-2.1 (arrangements for preparedness ..) GSG-2 (criteria for use ...</td>
<td>SSG-32 (radon, building materials) DS468 (remediation)</td>
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</table>

Safety Guides for specific facilities and activities (NPP (NS-G-1.13, NS-G-2.7), Research Reactors (NS-G-4.6), medical uses (DS399), transport (TS-G-1.3) non-medical imaging (DS471) etc.)
Objective

- To clarify the principles of protection of members of the public and the environment against radiation exposure in planned, emergency and existing exposure situations, and to provide generic guidance on their application to governments, regulatory bodies, registrants and licensees, and organizations designated to deal with emergency exposure situations and existing exposure situations.

- This is a General Safety Guide.

- The guidance is intended to underpin the development of facility and activity specific Safety Guides and other relevant documents dealing with this area of protection to ensure a consistent approach.
Current structure of DS432

Introduction

Framework
- Exposure situations
- Radiation Protection Principles
  - Justification
  - Optimization
  - Dose Limits
- Responsibilities
- Graded Approach

Radiation Protection of the Public
- Planned
- Emergency
- Existing

Protection of the Environment

Appendix I
- Framework for source related dose constraints and reference levels
## Member State Comments

<table>
<thead>
<tr>
<th>Country</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Canada</td>
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<td>UK</td>
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<tr>
<td>USA</td>
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</table>

**Total**: 152 from 14 Member States
Comments from Committee Members

DS432 was posted on the Committees web page on 8 September 2015, together with the response to Member State comments

Comments received from Committee Members:

- France NUSSC: 4
- Germany RASSC and WASSC: 11
- Japan RASSC and WASSC: 3
- USA: 2

Total: 20
Committee’s comments

- 17 comments accepted
- Most of the comments were editorial in nature
- Title: Protection of the Public and the Environment from Radiation Exposure
- Rejected comments to delete paras 2.36-2.46 and 3.1-3.7. It was considered important for completeness of the Safety Guide to include them in DS432
Committee’s comments

- Comment from Japan to include description of the TECDOC “Guidance on Radionuclide Activity Concentration for Food and Drinking Water” in paras 3.101-2.103.
  - The TECDOC is still being developed. A description of the TECDOC will be included in DS432 if the TECDOC is published prior to DS432 being completed.
Request approval to submit DS432 to the Commission on Safety Standards for endorsement