1st Meeting of the EMERGENCY PREPAREDNESS AND RESPONSE COMMITTEE (EPRReSC)

30 November to 2 December 2015

Agenda Item EP4.2
Activities and Safety Standards under Development in Radiation Safety Area

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RASSC Activities (1)

Safety Requirements:


General Safety Guides

Radiation Protection and Safety in Medical Uses of Ionizing Radiation (DS399) approved by SSCs in November 2015 – cosponsored by ILO, PAHO and WHO

Radiation Protection of the Public and the Environment (DS432) approved by SSCs in November 2015 – cosponsored by UNEP

Occupational Radiation Protection (DS453) approved by CSS April 2015 – cosponsored by ILO
RASSC Activities (2)

Other Safety Guides

Justification of Practices, including Non-Medical Human Imaging (GSG 5) published

Protection of the Public against Exposure Indoors due to Radon and Other Natural Sources of Radiation (SSG-32) published – cosponsored by WHO

Establishing a National Radiation Safety Infrastructure (DS455) approved by SSCs in November 2015

Radiation Protection for Consumer Products (DS458) awaiting publication - cosponsored by OECD/NEA

Radiation Protection and Safety in Well Logging (DS419) final editing following comments from Member States

Radiation Protection for Nuclear Gauges (DS420) final editing following comments from Member States
**Other reports under development**

**Safety Report:** Radiation Protection in Veterinary Medicine *CS in November 2015*

**TecDoc:** Reference Levels for Radionuclide Activity Concentrations in Food and Drinking Water

**Addresses existing exposure situation only**
Prepared in cooperation with FAO and WHO
Explains current standards and the situations to which they apply

BSS - para 5.22 establishes reference level of around 1 mSv in a year

**WHO** – chapter 9 of Guidelines for Drinking-Water Quality

**Joint FAO/WHO Codex Alimentarius Commission** – based on 1 mSv in a year and assumption that 10% of total diet is contaminated
Work on non-food commodities

Safety guide: Application of the Concepts of Exclusion, Exemption and Clearance (RS-G-1.7)

5.8 In particular, national and international trade in commodities containing radionuclides with activity concentrations below the values of activity concentration provided in Tables 1 and 2 should not be subject to regulatory control for the purposes of radiation protection.

There are no values for surface contaminated items or for liquids

Discussing with RASSC and WASSC how to address this gap in the standards
Objective and Scope: The objective of the proposed Safety Guide is to provide guidance on safety measures specific to meet the requirements of the BSS (GSR Part 3) and other relevant Safety Requirements publications on the use of X ray generators and radiation sources for inspection purposes and for non-medical human imaging.

Need: The requirements relating to non-medical human imaging were strengthened during the recent revision of the BSS, and RASSC has identified the need for guidance on non-medical human imaging.

Interface with emergency preparedness and response: Some devices used for inspection purposes may contain category 3 or higher radioactive sources. The licensee needs to prepare an emergency plan for such sources.

Expectations from EPReSC: to review the generic text prepared by the IEC relating to emergency preparedness and response (and develop practice-specific text)

Status: Approved by RASSC in November 2015 for submission to Member States for comment
DS434: Radiation Safety of Radioisotope Production Facilities

Objective and Scope: This Safety Guide provides specific, practical recommendations on the safe design and operation of these facilities for use by operating organizations, designers of these facilities, and by regulatory bodies. Addresses the radiation safety and protection aspects of radioisotope production in accelerators (principally cyclotrons), or purified from other irradiated targets are processed into radioactive products for subsequent use, for example, in nuclear medicine. Research reactors are outside the scope.

Need: RASSC has identified the need to develop guidance on several specific applications of radiation sources in industry.

Interface with emergency preparedness and response: The finished products of radioisotope production facilities fall into source categories 3 – 5. The licensee needs to prepare an emergency plan for such sources for the protection of personnel and the members of the public and the environment in the vicinity of the radioisotope production facility.

Expectations from EPReSC: to agree text relating to emergency preparedness and response

Status: Expected to be submitted to Committees in April 2016 for approval for submission to Member States for comment.
Objective and Scope: The objective of the proposed Safety Guide is to provide guidance on safety measures specific to meet the requirements of the BSS (GSR Part 3) and other relevant Safety Requirements publications on the use of radiation sources in research and education.

Need: A wide range of sealed and unsealed sources have many applications in both second-level schools and universities.

Interface with emergency preparedness and response: Some radioactive sources used for research and education may contain category 3 or higher radioactive sources. The licensee needs to prepare an emergency plan for such sources.

Expectations from EPRoSC: to agree to the generic text prepared by the IEC relating to emergency preparedness and response (and develop practice-specific text).

Status: Expected to be submitted to Committees in April 2016 for approval for submission to Member States for comment.
Thank you for your attention