42nd Meeting of the Waste Safety Standards Committee

28 November – 1 December 2016

Agenda item W2.1
Report from the 40th CSS Meeting

Dominique Delattre
CSS Scientific Secretary
Head, Safety Standards and Security Guidance Development Section
Main results of the 40\textsuperscript{th} CSS (1/2)

The following draft standards were endorsed for publication:

- DS427: Draft Safety Guide on Prospective Radiological Environmental Impact Assessment for Facilities and Activities
- DS442: Draft Safety Guide on Regulatory Control of Radioactive Discharges to the Environment
- DS452: Draft Safety Guide on Decommissioning of Nuclear Power Plants, Research Reactors and Other Nuclear Fuel Cycle Facilities
Main results of the 40th CSS (2/2)

The following DPPs were approved:

- **DS469**: Draft Safety Guide on Preparedness and Response for an Emergency during the Transport of Radioactive Material
- **DS496**: revision of the Safety Guide SSG-26 on Advisory Material for the IAEA Regulations for the Safe Transport of Radioactive Material
- **DS497**: revision of eight closely interrelated Safety Guides supporting SSR-2/2 (Rev. 1): NS-G-2.2 to 2.8 and NS-G-2.14

Step A approved – separate approval by the Committees and the CSS for the revision of NS-G-2.1 and the new DPP on Safety Performance Improvement – Overall optimization approach for step B supported (but need to come back on the details)
1) Harmonize safety standards and security recommendations, as well as the IAEA's process for developing them, to facilitate accomplishing the common objective of safety and security - to protect people and the environment. Such harmonization will assist operators, users of radioactive sources, and regulators in accomplishing this common objective. Actionable steps for safety and security harmonization to be initiated, with involvement of the NSGC, during the sixth CSS term could include:

- **Promoting a common development process** for safety standards and security recommendations and associated guidance, including further involvement of the CSS.

- **Consolidating safety standards and security recommendations for radioactive source users** consistent with the Code of Conduct on the Safety and Security of Radioactive Sources.

- **Consolidating safety standards and security recommendations for transportation of radiation sources and nuclear material** consistent with United Nations standards.

- **Progressing on a common glossary** for nuclear security and safety.
CSS interests for its 6th term (2/4)

2) On the basis of experience gained from existing Review Committees including the newly established EPReSC, **perform a review of the safety committees structure and recommend to the DG a future optimum structure** that should be adopted to meet the needs of the IAEA Secretariat and Member States for the development of high quality standards and guidance in the most effective and efficient way. Identify options to further enhance the benefit of holding joint sessions of the Review Committees.

3) **Considering the observations and lessons in the Director General’s Fukushima Daiichi Accident Report, confirm those areas that the safety committees need to continue to focus on, and progress the development of new standards and guidance** to address the remaining gaps. These are expected to include, for example, post-emergency recovery procedures, criteria for food, drinking water, non-food commodities and methodology for their development.
4) After appropriate pilot testing to demonstrate performance, implement the IT platform for the development, review, dissemination, and revision of IAEA safety standards and security recommendations and associated guidance. Based on early experience in applying the IT platform, utilise its functionality to optimise and enhance the effectiveness and efficiency of the process for the production of safety standards and security recommendations and associated guidance.

5) Perform a holistic review of the complete collection of Safety Guides and as appropriate a prioritization for the new or revision of existing ones.

6) Clarify the radiation protection system in existing exposure situations providing guidance to decision makers and experts on preparing dialogue and elaborating clear messages to stakeholders based on addressing “prevailing circumstances”.
7) Finalize the development of the guidance on transition from emergency situations to recovery situations and the guidance on communication before, during and after an emergency situation.

8) Develop, in cooperation with the relevant international organizations, guidance on radiation protection in exposure situations characterized by very low doses and dose rates.

9) Investigate with NSGC what input might be needed from the Safety Standards Committees for the Nuclear Security Series on further guidance on the use of “unacceptable radiological consequences” and “high radiological consequences” as criteria for implementing specific recommendations.

10) The Secretariat to continue the joint MTCD/NS efforts to streamline the approval and publication process and significantly enhance its effectiveness and the Secretariat to ensure that the final draft, after editing, is submitted to the CSS for its endorsement.
Selected actions arising from the 40th CSS meeting (1/2)

40.02 A **Working Group** of CSS members, including the Chairs of RASSC, EPReSC and WASSC, to be established to **consider the implications of the UNSCEAR report** “Attributing Health Effects to Ionizing Radiation Exposure and Inferring Risks” for the development of IAEA safety standards; representatives from the Secretariats of ICRP and UNSCEAR to be invited to participate in the Working Group

40.03 A summary to be provided at the 41st CSS meeting on how the standards reflect **the concept of strength-in-depth** as set out in the INSAG-27 report

40.04 The Secretariat to investigate means by which the **copyright conditions**, as set out at the front of all IAEA Safety Standards, can be simplified and made more welcoming to possible reproductions or translations of standards
40.05 An agenda item to be included at the 41st CSS meeting on a holistic review of the collection of Safety Guides, aimed at developing an approach to ensuring their consistency, completeness and proper interdependence, and background material to be provided accordingly, included as input the situation that is to be expected in three years’ time, when ongoing projects are completed.

41st CSS meeting to be held from Wednesday 19 April 2017 afternoon to Friday 21 April 2017.
Roadmap for the long term structure of Safety Standards

- GSR part 1 published and Rev.1 published
- GSR Part 2 published
- GSR Part 3 published
- GSR Part 4 published and Rev.1 published
- GSR Part 5 published
- GSR Part 6 published
- GSR Part 7 published

- SSR 1 STEP 7 expected IIQ 2017
- SSR 2.1 published and Rev.1 published
- SSR 2.2 published and Rev.1 published
- SSR 3 being published
- SSR 4 STEP 11
- SSR 5 published
- SSR 6 published
Status of endorsed Safety Standards (1/3)

Safety Standards published since the last CSS meeting:

• Design of I&C Systems for NPPs (DS431) published as SSG-39


• Safety of Research Reactors (DS476) published as SSR-3

• Leadership and Management for Safety (DS456) published as GSR Part 2
Status of endorsed Safety Standards (2/3)

Safety Standards endorsed for publication:

- Safety of Nuclear Fuel Reprocessing Facilities *(DS360) approved by PC Dec. 2015*
- Safety of Nuclear Fuel Cycle Research and Development Facilities *(DS381) approved by PC Dec. 2015*
- Communication and consultation with Interested Parties *(DS460) approved by PC March 2016*
- Occupational Radiation Protection *(DS453) approved by PC July 2016*
- Radiation Protection and Safety in Medical Uses of Ionizing Radiation *(DS399) approved by PC July 2016*
- Predisposal Management of Radioactive Waste from the Use of Radioactive Material in Medicine, Industry, Agriculture, Research and Education *(DS454) approved by PC July 2016*
- Establishing the Infrastructure for Radiation Safety *(DS455) approved by PC June 2016*
Status of endorsed Safety Standards (3/3)
Thank you!