Radiation and Transport Safety

Objective

To support Member States in improving radiation safety of people and the environment through the development of safety standards and by providing for their application. To support Member States in establishing the appropriate safety infrastructure through support and implementation of the Code of Conduct on the Safety and Security of Radioactive Sources and its supplementary guidance, as well as through safety reviews and advisory services. To support Member States in capacity building through education and training, and in encouraging the exchange of information and experience.

Radiation Safety and Monitoring

The Agency hosted a Technical Meeting on Establishing Efficient Regulatory Control for Protection Against Radon in Workplaces in Vienna in April 2022 to discuss protection against radon in different exposure situations, with particular focus on combined sources of exposure and enforcement of regulatory control. The input provided will be considered for the development of the draft Safety Guide on *Protection of Workers Against Exposure Due to Radon*.

The Agency worked with the International Commission on Radiological Protection (ICRP) in reviewing the fitness for purpose of the current system of radiological protection. A joint topical session with the ICRP was hosted by the Agency during the Radiation Safety Standards Committee meeting in June 2022, where the Agency presented feedback from the application of safety standards.

The Agency held a virtual Technical Meeting on Radiation Protection in Fluoroscopically Guided Interventional Procedures in March 2022, to review existing guidance and resources for the prevention and management of unintended medical exposures in fluoroscopically guided interventional procedures; to evaluate the status of the Safety in Radiological Procedures reporting system; and to review new aspects of occupational radiation protection in fluoroscopically guided interventional procedures.

The Agency conducted a mission to Estonia in March 2022 to assess practical aspects of radiation protection in medicine, comparing national practices to the requirements set out in GSR Part 3 and the recommendations provided in *Radiation Protection and Safety in Medical Uses of Ionizing Radiation* (IAEA Safety Standards Series No. SSG-46).

The Agency published *Radiation Protection in Dental Radiology* (Safety Reports Series No. 108) in May 2022 and released e-learning modules on radiation protection in this area, helping dental professionals understand how to properly choose the right X-ray examination and to optimally use X-ray equipment features in order to keep exposure of the patient and dental staff low.

Regulatory Infrastructure

The Agency held two Workshops on the Development of Regulatory Infrastructure for Radiation Safety and Security of Radioactive Material in Vienna in April 2022 — one for the Caribbean region and one for Africa — and another in June 2022 for Latin America and the Caribbean, to review and discuss regulatory responsibilities concerning the control of radiation sources and the need to establish and enhance national regulatory infrastructure.

Transport Safety

The Agency published three Specific Safety Guides on the safe transport of radioactive material. Based on a review of proposed changes to the *Regulations for the Safe Transport of Radioactive Material* (2018 Edition) (IAEA Safety Standards Series No. SSR-6 (Rev. 1)), the Transport Safety Standards Committee decided to launch a revision of this publication.

The Agency established a working group on transportable NPPs and initiated development of a position paper on the terminology, design and applicability of existing transport safety standards.

A virtual meeting was held with representation from the Agency, the International Civil Aviation Organization, the International Maritime Organization, the United Nations Economic Commission for Europe and the Universal Postal Union in October 2022 to discuss the review and revision processes for the publications of these international organizations and to determine whether a faster and more flexible review and revision process could be developed for the *Regulations for the Safe Transport of Radioactive Material*.

Radiation Safety Technical Services

The Radiation Safety Technical Services Laboratory (RSTS Laboratory) continued to provide the highest quality of service for Agency staff. For the 16th year in a row, the Agency's RSTS Laboratory received recognition of the excellence of its radiation monitoring by means of ISO/IEC 17025:2017 accreditation.

Radiation monitoring measurements are taken at different workplaces at the Seibersdorf laboratories by the staff of the RSTS Laboratory.