



# **TC Interregional Meeting on Reuse and Recycling of Disused Sealed Radioactive Sources (DSRS)**

**Hosted by**

The Government of Bosnia and Herzegovina

**through the**

State Regulatory Agency for Radiation and Nuclear Safety

Sarajevo, Bosnia and Herzegovina

**7 to 11 November 2022**

**Ref. No.:** ME-INT9186-2003763

## **Information Sheet**

### **Purpose**

The purpose of the event is to review and discuss both national and international experiences in the reuse and recycling of DSRS, as one of the options for the safe and secure cradle-to-grave management of Disused Sealed Radioactive Sources (DSRS).

### **Working Language(s)**

The working language(s) of the event will be English.

## **Deadline for Nominations**

Nominations received after 15 August 2022 will not be considered.

## **Project Background**

Sealed radioactive sources (SRSs) are used extensively in industry, medicine, agriculture, and various research areas. A radioactive source that is no longer in use, or not intended to be used, for the practice for which an authorization has been granted, is deemed as disused. These Disused Sealed Radioactive Sources (DSRS) must be properly managed to ensure that the whole life cycle is safe and secure, as cost effective, and the impact to the environment is minimized. Paragraph 14 of the IAEA Code of Conduct on the Safety and Security of Radioactive Sources specifies that “every State should encourage the reuse or recycling of radioactive sources, when practicable and consistent with considerations of safety and security”. The terms “Reuse” and “Recycle” for the purposes of this meeting, are defined in the Code and its supplementary guidance, the “Guidance on the Management of Disused Radioactive Sources”, as: - “Reuse” means using a disused source for its original application or for another application without disruption of the existing outer source capsule or creation of a new outer source capsule. - “Recycling” means using the radioactive material from a disused source in a new radioactive source or in an unsealed form. Guidance on the principles of reuse and recycling of DSRS has been requested by several Member States during the implementation of regional and interregional technical cooperation projects on the control of DSRS, as a potential management option for DSRS.

## **Scope and Nature**

Presentations will be provided on various strategies implemented for reuse and recycling of many different types of DSRS, the problems encountered, and lessons learned by DSRS owners, waste management organizations, radioactive source users and regulators. The meeting will create awareness on, and encourage where practicable, the reuse or recycling of DSRS as a sensible and economic strategy for DSRS management. An example is the increasing interest for recycling of Radium-226 to produce Actinium-225 for targeted alpha therapy in the treatment of cancer will also be discussed.

The Meeting will also consist of presentations by IAEA staff and invited experts on the various management options for DSRS, with emphasis in the reuse and recycling options. The Meeting will include national presentations from participating Member States and will allow appropriate time for discussions on key issues identified by the participants as relevant and important for the implementation of reuse and recycling option in their countries. Participants are requested to prepare a brief presentation on experiences in the reuse or recycling of DSRS.

## **Participation**

Participants should be staff members of regulatory bodies, radioactive waste management operators, sealed source manufacturers or recyclers or other entities that may be involved in the reuse and recycling of DSRS. Two participants per country (preferable one from the regulatory body and one from the DSRS management organization) will be accepted. The final selection of candidates will be subject to the IAEA’s evaluation.

## Participants' Qualifications and Experience

The participants should have more than three years' experience working with radiation, possess fundamental knowledge of radiation protection and safety aspects associated with radioactive sources. The participants should have a thorough knowledge of the administrative and technical infrastructure to support the DSRS reuse/recycle programs. The Meeting will be conducted in English; participants should be capable of freely expressing themselves and following lectures and technical discussion in this language.

## Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:
  - a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
  - b. Search for the relevant technical cooperation event (EVT2003763) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

**NOTE:** Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline.

For additional support on how to apply for an event, please refer to the [InTouch+ Help page](#). Any issues or queries related to InTouch+ can be addressed to [InTouchPlus.Contact-Point@iaea.org](mailto:InTouchPlus.Contact-Point@iaea.org).

Should online application submission not be possible, candidates may download the nomination form for the meeting from the [IAEA website](#).

**NOTE:** A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for a) events with a duration exceeding one month, and/or b) all candidates over the age of 65 regardless of the event duration.

## **Administrative and Financial Arrangements**

Nominating authorities will be informed in due course of the names of the candidates who have been selected, and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

Selected participants will receive an allowance from the IAEA sufficient to cover their costs of lodging, daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station through the IAEA's travel agency American Express, or a travel grant, or they will be reimbursed travel by car/bus/train in accordance with IAEA rules for non-staff travel.

## **Disclaimer of Liability**

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

## **Note for female participants**

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

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