



Interregional Basic Training Course on the Development of Safety Assessment/Safety Case and Security Plan for the Storage of Sealed and Disused Sealed Radioactive Sources

Hosted by

The Government of Slovenia

through the

Agency for Radwaste Management (ARAO)

Ljubljana, Slovenia

24 to 28 March 2025

Ref. No.: TN-INT9187- 2401039

Information Sheet

Purpose

The purpose of the event is to discuss and introduce the IAEA methodologies for the development of Safety Assessment (SA) and a Safety Case (SC) for storage facilities for sealed and disused sealed radioactive sources.

Working Language(s)

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

Deadline for Nominations

Nominations received after **15 January 2025** will not be considered.

Project Background

The IAEA Technical Cooperation Project “Sustaining Cradle-to-Grave Control of Radioactive Sources—Phase III” supports participating Member States in strengthening the safe, secure, and sustainable cradle-to-grave management of Sealed Radioactive Sources (SRS), including Disused Sealed Radioactive Sources (DSRS), to protect human health and the environment.

Sealed Radioactive Sources are used for beneficial purposes in many countries worldwide. Once they become disused, radioactive sources remain hazardous, so they are managed to ensure safety and security.

The operator of a storage facility has the prime responsibility for safety and must assess the safety of the facility and demonstrate that the design and operation of the facility are compliant with the relevant safety requirements. Similarly, the operator has to ensure the establishment of an effective security system for the facility to ensure that the stored material is well protected from unauthorized removal or sabotage.

Scope and Nature

The Safety Case and Safety Assessment for Predisposal Management of Radioactive Waste (GSG-3) states, "The operator shall prepare a safety case and a supporting safety assessment. In the case of a step-by-step development, or in the event of modification of the facility or activity, the safety case and its supporting safety assessment shall be reviewed and updated as necessary" it goes on to state that "The responsibility for carrying out the safety assessment shall rest with the responsible legal person; that is, the person or organization responsible for the facility or activity." On the other hand, and according to the IAEA nuclear security series NSS 14 and NSS 11-G, the operator of a storage facility handling radioactive material is obligated to prepare and submit a comprehensive security plan as part of the documentation required for obtaining a license. This security plan must outline measures for the protection of radioactive sources from unauthorized access, theft, or sabotage. The plan should address physical protection measures, access control, detection systems, and response procedures, aligned with national regulatory requirements. Additionally, the security plan forms a critical element of the facility's overall security management system, ensuring continuous risk assessment, the establishment of security protocols, and regular review processes. This helps maintain compliance and enhances the facility's resilience against evolving threats.

The training on the development of SA/SC and security plan for SRS and DSRS storage will consist of two separate training courses: Basic and Advanced.

This basic training course will focus on the development of the safety case and security plan from the conceptualization of the facility up to decommissioning and licence termination. Topics to be included but not limited to:

- Testing of initial ideas for safety concepts;
- Site or location selection;
- Demonstration of the safety of the facility or activity;
- Optimization of the facility design or activity arrangements;
- Identifying and assessing threats;
- Risk management;
- and the functions of the facility security system throughout its lifecycle.

Participation

Participants should be staff members of regulatory bodies, radioactive waste management operators, and other entities involved in identifying and implementing disposal options for DSRS.

Two participants per country (preferably one from the management organization responsible for the disposal of DSRS) will be accepted. The IAEA will evaluate and make the final selection of candidates.

Please note that the participants of this first training will be invited to a second training that will take place in Slovenia in May 2025.

Participants' Qualifications and Experience

Member States participating in the IAEA Technical Cooperation Project "Sustaining Cradle-to-Grave Control of Radioactive Sources – Phase III" are invited to designate participants from national organizations with experience in the conditioning, storage, and disposal of DSRS and or radioactive waste. Participants may be from operating organizations, technical support, or other relevant organizations.

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. Download and complete the [Designation of Beneficiary and Emergency Contact Form](#), and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step; and
 - c. Search for the relevant technical cooperation event (**EVT2401039**) 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.

Should online application submission not be possible, candidates may download the nomination form for the training course 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 AX Travel Management, or a travel allowance, 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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