



Atoms for Peace and Development

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

National Liaison Officers /

Vienna International Centre, PO Box 100, 1400 Vienna, Austria
Phone: (+43 1) 2600 • Fax: (+43 1) 26007

Email: Official.Mail@iaea.org • Internet: <https://www.iaea.org>

National Coordinators

In reply please refer to: ME-RER9154-2000014
Dial directly to extension: (+43 1) 2600-26647

2021-03-30

Subject: Virtual Regional Workshop on Status and Update of Storage Needs in Small Inventory Member States, Vienna, Austria, from 7 to 22 June 2021

Dear National Liaison Officer / National Coordinator,

I am pleased to inform you that the International Atomic Energy Agency (IAEA) is organizing the above event under the IAEA technical cooperation project RER9154, “Enhancing the Implementation of Integrated Programmes for the Safe Management of Radioactive Waste”.

The purpose of the event is to train Member State representatives to generate a Roadmap to increase the long-term durability of existing or planned storage facilities for the storing of small volumes of unconditioned waste or waste packages earmarked for disposal.

The attached Information Sheet provides further details, including technical and administrative aspects of the event. Selection of participants will be in accordance with IAEA procedures. Member States are strongly encouraged to identify suitable women participants.

For participants who indicate their need, the IAEA could provide financial support to contribute to the expenses of their costs for internet connection for the duration of the event in line with IAEA rules and procedures.

We would appreciate receiving your country's nominations by **30 April 2021** through the IAEA's InTouch+ platform (<https://Intouchplus.iaea.org>). Should this not be possible, applicants may download the Nomination Form for the event from the [IAEA's webpage](#). Completed forms must be endorsed by the relevant government authority and may be sent to the IAEA, preferably by email to Official Mail - IAEA Mail address Official.Mail@iaea.org, with copy to Ms Katherina Deufraims K.L.Deufraims@iaea.org.

Please be advised that late nominations or replacements of participants after the closing date for nominations will not be accepted.

We look forward to receiving your early response.

Yours sincerely,



Katherina Deufrains
Programme Management Officer
Division for Europe
Department of Technical Cooperation

Enclosure: Information Sheet



Virtual Regional Workshop on Status and Update of Storage Needs in Small Inventory Member States

Hosted by

The International Atomic Energy Agency
IAEA Headquarters
Vienna, Austria

7 to 22 June 2021

Ref. No.: ME-RER9154-2000014

Information Sheet

Purpose

The purpose of the event is to train Member State representatives to generate a Roadmap to increase the long-term durability of existing or planned storage facilities for the storing of small volumes of unconditioned waste or waste packages earmarked for disposal.

Working Language(s)

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

Deadline for Nominations

Nominations received after **30 April 2021**, will not be considered.

Background

All Member States (MSs) that benefit from the peaceful uses of nuclear energy have some amount of radioactive waste to manage in a way that it does not present a burden to future generations. Radioactive waste life cycle planning (from the point of generation through disposal) is essential to ensure that the volume of radioactive waste is minimized, and all waste streams have an appropriate end point. The safe storage of radioactive wastes is an integral part of all stages of waste management from raw waste to fully conditioned waste packages awaiting final disposal.

The purpose of a storage facility or structure is to safely and securely contain the packaged radioactive waste in an organized and retrievable fashion for a defined time that is supposed to be less than the facility design life, while ensuring that the radiation protection of workers, the public and the environment are properly addressed according to applicable regulations and the ALARA principle.

Any storage system will have three primary components, all of which need to be properly addressed to ensure the adequacy of the system:

- (a) The waste package (including waste form and container);
- (b) The storage facility (including the storage structure and ancillary equipment, such as package handling, monitoring, ventilation, cooling, security, etc.);
- (c) The regulatory framework, governance structure and safety requirements.

Longer-term storage entails taking additional measures to ensure continuing satisfactory safety control and protection of the waste packages and the storage facility itself. The longer the intended life of the storage facility, the more important these factors become.

Expected Outputs

As a result of the workshop participants will be able to review/update or generate management plans (Roadmap) in their respective Member States for existing or planned storage facilities for the storing of small volumes of unconditioned waste or waste packages earmarked for disposal.

Scope and Nature

The following topics will be the main contents of the event:

1. Regulatory requirements
 - (a) Regulatory safety regulations for planning storage facilities;
 - (b) Roadmap that defines the path for safe storage and enhances confidence in the safety of small inventories of stored radioactive waste;
 - (c) Regulatory safety regulations during the operation of a storage facility
2. Storage requirements
 - (a) Waste, treatment, conditioning options and waste acceptance criteria influencing selection of packaging and storage facilities;
 - (b) Key components and safety concepts for establishing as storage facilities by modifying an existing building/room, including "site selection" and modification activities/safety aspects;
 - (c) Establishing an ageing management plan; and
 - (d) Storage challenges e.g. storage of liquids, unconditioned waste, hazardous waste, DSRS, etc.
3. Practical aspects

The knowledge transfer will be extended through practical group exercises to produce a "roadmap" that describes the route to safe management of radioactive waste until disposal based on case studies such as:

 - Activities that must be implemented to upgrade a proposed degraded facility earmarked for waste storage (participant's proposals will be compared with recommendations from an IAEA case study);
 - Activities that must be implemented to ensure safe retrieval of waste from an unsafe storage to the facility described above.

Group A - RADON type (or similar) facilities

Description of situation: Waste that has been previously disposed of in a cell/bunker/trench/underground. The existing situation has been deemed to be unacceptable or does not meet current standards of security or safety. No disposal route is currently available and is not expected for several decades.

Group B - Existing temporary/interim storage facilities

Description of situation: Waste is stored in either individual or multiple storage facilities, such as a hangar or room. Waste may be a mix of unconditioned and conditioned packages. The existing situation has been deemed to be unacceptable or does not meet current standards of security or safety. No disposal route is currently available and is not expected for several decades

Group C - Research reactor waste / higher activity DSRS

Description of situation: Waste from research reactors classified as ILW, or higher activity DSRS. Waste may be a mix of unconditioned and conditioned packages. The existing situation has been deemed to be unacceptable or does not meet current standards of security or safety. No disposal route is currently available and is not expected for several decades.

Generate (write) a long-term ageing management plan (AMP) for a storage facility containing the waste (mentioned above) to increase the long-term durability of stored waste packages earmarked for disposal (will be based on a facility proposed in workshop).

Participation

The event is open to Member States participating in the TC Project RER9154.

Participants' Qualifications and Experience

Participants should be radioactive waste owners or planners who are responsible for establishing storage facilities for small inventories as part of radioactive waste management activities at either a facility or at national level (Small inventories waste in this workshop is defined as waste arising from limited use of nuclear R&D facilities, research reactors and limited use of nuclear applications in industry and medicine. Norm activities are excluded from this workshop).

Please note that participants will be expected to prepare presentations or share information outlining their experience or needs regarding radioactive waste storage as part of a radioactive waste management plan, highlighting challenges and issues.

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 (EVT2000014) 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 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 who indicate their need, will receive financial support to contribute to the expenses of their costs for internet connection for the duration of the event in line with IAEA rules and procedures.

Disclaimer of Liability

The IAEA takes no responsibility for, and the provider of the virtual meeting services has represented and warranted that the Services shall not contain, and that no end user shall receive from the software used to hold the virtual meeting, any virus, worm, trap door, back door, timer, clock, counter or other limiting routine, instruction or design, or other malicious, illicit or similar unrequested code, including surveillance software or routines which may, or is designed to, permit access by any person, or on its own, to erase, or otherwise harm or modify any data or any system, server, facility or other infrastructure of any end user (collectively, a “Disabling Code”).

IAEA Contacts

Programme Management Officer (responsible for substantive matters):

Ms Katherina Deuftrains
Division for Europe
Department of Technical Cooperation
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 2600 26647
Fax: +43 1 26007
Email: K.L.Deuftrains@iaea.org

Technical Officer (responsible for substantive matters):

Mr Willie Meyer
Division of Nuclear Fuel Cycle and Waste Technology
Department of Nuclear Energy
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 2600 22607
Fax: +43 1 26007
Email: W.Meyer@iaea.org

Administrative Contact (responsible for administrative matters):

Ms Jeta Abazi
Division for Europe
Department of Technical Cooperation
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 2600 24447
Fax: +43 1 26007
Email: J.Abazi@iaea.org