



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

Technical Meeting on the Management of Hazardous Waste Arising from the Operation and Decommissioning of Nuclear Facilities

IAEA Headquarters, Vienna, Austria
and virtual participation via Cisco Webex

15–19 May 2023

Ref. No.: EVT2205602

Information Sheet

Introduction

The International Atomic Energy Agency (IAEA) promotes the safe and peaceful uses of nuclear energy including the management of radioactive waste according to nationally and internationally agreed principles and standards with safe disposal as endpoint for all waste types.

Many waste streams require immobilization to meet the waste acceptance criteria (WAC) for storage and disposal. Current challenges in the management of hazardous radioactive waste that arise from the operation and decommissioning of nuclear facilities are mainly related to chemical properties of these waste types (oxidising, flammable, toxic, irritant, carcinogenic, corrosive, infectious waste) that are harmful towards human health and the environment.

To support Member States in the management of hazardous radioactive waste, the IAEA is organising a dedicated Technical Meeting the Management of Hazardous Waste Arising from the Operation and Decommissioning of Nuclear Facilities.

Objectives

The purpose of the event is to share experiences and lessons learned in the treatment and processing options for the management of hazardous waste arising from the operation and decommissioning of nuclear facilities.

Target Audience

The event is targeted at representatives with a current or future programme or project regarding the processing of hazardous or mixed waste for disposal. In order to maximize the exchange of information, individuals attending should be from all Member States with nuclear facilities, NPPs, waste management facilities, regulatory body, research facilities or from non-governmental or international organizations that represent such programmes regionally or worldwide.

Working Language

English.

Expected Outputs

The expected outcome from the meeting will be:

- Take cognisance of current technologies available for processing hazardous (mixed) waste.
- List key factors influencing the selection of processing technologies for processing of hazardous (mixed) waste based on the characteristics of the waste.
- Be knowledgeable regarding the properties of the final waste form/package relating to WAC for storage/disposal.
- Review draft publication on the Management of hazardous radioactive waste.

Structure

The meeting will feature Member State representative reporting on the management of hazardous radioactive waste streams containing chemitoxic materials (arsenic, cyanide, beryllium, asbestos, silica dust, electronic components), halogenated solvents (carbon tetrachloride, TCE, chloroform, decontamination chemicals), toxic organics (EDTA, PCBs, TBP, Dioxins PFOS/PFOA, Polybrominated Diphenyl Ethers, Polychlorinated Biphenyls, TCE), toxic heavy metals (Hg, Cr, Cd), nitrates, corrosive

chemicals, reactive chemicals (pyrophoric materials, strong oxidizers including Al, Mg, Zr, Na) and radioactive medical waste.

The meeting will also review and add additional information into the draft publication on Management of Hazardous Waste Arising from the Operation and Decommissioning of Nuclear Facilities.

Topics

Experience and lessons learned regarding the following specific topical areas will be discussed:

1. Methods used for chemical and radiochemical characterization.
2. Storage of unconditioned hazardous waste.
3. Possibility for re-use.
4. Processing technologies for disposal.
5. Long-term behaviour of conditioned waste packages (during storage and/or disposal).
6. Safety, legislative and financial aspects.

Participation and Registration

All persons wishing to participate in the event have to be designated by an IAEA Member State or should be members of organizations that have been invited to attend.

In order to be designated by an IAEA Member State, participants are requested to send the **Participation Form (Form A)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) for onward transmission to the IAEA by **31 March 2023**. Participants who are members of an organization invited to attend are requested to send the **Participation Form (Form A)** through their organization to the IAEA by the above deadline.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and financial matters.

Participants are hereby informed that the personal data they submit will be processed in line with the [Agency's Personal Data and Privacy Policy](#) and is collected solely for the purpose(s) of reviewing and assessing the application and to complete logistical arrangements where required. The IAEA may also use the contact details of Applicants to inform them of the IAEA's scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA's mandate.

Papers and Presentations

The IAEA encourages participants to give presentations on the work of their respective institutions that falls under the topics listed above.

Participants who wish to give presentations are requested to submit an abstract of their work. The abstract will be reviewed as part of the selection process for presentations. The abstract should be in A4 page format, should extend to no more than 5 pages pages (including figures and tables) and should not exceed 10 000 words. It should be sent electronically to W. Myer, the Scientific Secretary of the event (see contact details below), not later than **14 April 2023**. Authors will be notified of the acceptance of their proposed presentations by **19 April 2023**.

In addition, participants have to submit the abstract together with the **Participation Form (Form A)** and the attached **Form for Submission of a Paper (Form B)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or their organization for onward transmission to the IAEA not later than **31 March 2023**.

Expenditures and Grants

No registration fee is charged to participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event.

The application for financial support should be made using the **Grant Application Form (Form C)**, which has to be stamped, signed and submitted by the competent national authority to the IAEA together with the **Participation Form (Form A)** by **31 March 2023**.

Venue

The event will be held at the Vienna International Centre (VIC), where the IAEA's Headquarters are located. Participants must make their own travel and accommodation arrangements.

General information on the VIC and other practical details, such as a list of hotels offering a reduced rate for IAEA participants, are listed on the following IAEA web page:

www.iaea.org/events.

Participants are advised to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the event on the first day in order to allow for timely registration. Participants will need to present an official photo identification document in order to be admitted to the VIC premises.

Visas

Participants who require a visa to enter Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria at least four weeks before they travel to Austria. Since Austria is a Schengen State, persons requiring a visa will have to apply for a Schengen visa. In States where Austria has no diplomatic mission, visas can be obtained from the consular authority of a Schengen Partner State representing Austria in the country in question.

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretary/Secretaries and correspondence on other matters related to the event to the Administrative Secretary.

Event Web Page

Please visit the following IAEA web page regularly for new information regarding this event:

www.iaea.org/events/evt2205602