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International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

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>

In reply please refer to: **EVT1904418**

Dial directly to extension: (+43 1) 2600-22607

The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the IAEA's Member States and has the honour to draw their attention to the **Technical Meeting on Waste Form Performance Testing for Low Level Waste Disposal (International Predisposal Network, IPN)** (hereinafter referred to as "event") to be held virtually via Cisco WebEx from **12 to 23 April 2021**.

The purpose of the event is to provide a forum for Member States to share their experiences in waste form performance testing for low level waste disposal. The event will cover good practices, lessons learned and recent progress in the field of low-level waste form performance testing.

The attached Information Sheet provides further details of the event.

The event will be held in English.

Member States are invited to designate one or more participants to represent the Government at this event. Member States are strongly encouraged to identify suitable women participants.

Designations should be submitted to the IAEA through the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) not later than **31 March 2021** using the attached Participation Form (Form A). Completed and authorized Participation Forms should be sent either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretary of the event, Mr Willem Meyer, Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy (Email: W.Meyer@iaea.org) and to the Administrative Secretary, Ms Marina Tolstenkova (Email: M.Tolstenkova@iaea.org). The Scientific Secretary of the event will liaise with the participants directly concerning further arrangements, as appropriate, once the official designations have been received.

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").

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to renew to the IAEA's Member States the assurances of its highest consideration.



2021-03-16

Enclosures: Information Sheet

Participation Form (Form A)

Form for Submission of a Paper (Form B)



INFORMATION SHEET

Virtual Technical Meeting on Waste Form Performance Testing for Low Level Waste Disposal (International Predisposal Network, IPN)

Virtual Meeting: 12 -23 April 2021

Ref. No.: EVT1904418

A. 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 low-level waste (LLW) streams require immobilization to meet the waste acceptance criteria (WAC) for storage and disposal. There are many technologies, including both thermal and non-thermal processes, that are operational world-wide to produce a variety of stable waste forms. To ensure that the waste form produced will conform with the relevant waste acceptance criteria, it is necessary to perform a number of tests to establish the performance of the waste form over the envisaged timescales and conditions for storage and disposal. These tests are referred to as waste form performance tests.

B. • Objective

The purpose of the event is to provide a forum for Member States to share their experiences in waste form performance testing for low level waste disposal. The event will cover good practices, lessons learned and recent progress in the field of low-level waste form performance testing.

C. Scope

The meeting will feature Member State representatives reporting their experience topics related to waste form performance testing for low level waste disposal including experience and lessons learned. The following specific topical areas are applicable:

1. Waste form quality control (water content, penetration, viscosity, leaching test, differential thermal analysis (DTA), flammability, radiolysis, radiation durability and WAC compliance).
2. Waste container quality controls (Mechanical, corrosion, radiation resistance properties and WAC compliance)
3. Long-term durability determination of total waste package (leaching, mechanical strength, transportation requirements, radiation durability, geochemical durability, WAC compliance, etc.).
4. New experimental developments.

Meeting participants are expected to present overview reports/presentations focusing on waste form performance testing at industrial implementation scale.

D. Expected Outputs

The expected outcome from the meeting will be a documented summary on the current status Waste Form Performance Testing for Low-Level Waste Disposal and future mechanisms for sharing and benchmarking of knowledge on the topic.

E. Role of the Participants

The VCM is a new alternative method replacing the traditional in person meetings that is not possible due to the Covid situation. The entire VCM will be managed remotely and will occur over a longer time frame (five weeks) than the traditional five day in-person consultancy meeting. The VCM will rely on both planned and ad hoc video or audio conference calls in addition some home-based tasks. It is envisaged that the overall time commitment required of the experts during this extended period will be approximately the same as that required for a conventional five-day consultancy meeting.

In general, one or more (time zone dependant) meetings will be held via WebEx and in order to gauge workload required from the participants, the following list of events and nominal time contributions are proposed;

WebEx 12 April and 14 April 2021 (4 hours per day)

- Presentations regarding Waste Form quality control
- Summarizing Waste Form quality control used by Member States for different waste forms.

1 day effort

WebEx 16 April and 19 April 2021 (4 hours per day)

- Presentations regarding Waste container quality control
- Summarizing Waste Containers (disposal) quality control used by Member States

1 day effort

WebEx 20 April and 23 April 2021 (4 hours per day)

- Presentations regarding Waste package quality control
- Summarizing Waste Package (disposal) quality control used by Member States

Depending on registered participants (including presentations), additional WebEx days might be included during the same period.

F. Collaboration Tools

This event will make extensive use of online collaboration tools. The Agency will setup a SharePoint site for the project; due to potential sensitivities, the site will be closed and access will be granted only by request to the Scientific Secretary. The SharePoint site will serve as the document repository for all documents. In addition to typical documents (MS Word, Excel, etc.), the site will also house a number of “How To” videos produced by the Agency to help facilitate telecommunications issues and videos regarding the background and aim of this project. The SharePoint site will also use a message board function to allow participants to post questions about specific topics.

Access to the Microsoft Teams platform will be arranged for all of the participants. This platform is easy to use for 1-on-1 and small group chats, typically scheduled on an Ad Hoc basis by the participants. Larger meetings, if needed, will be done via the WebEx platform (the Agency will facilitate this).

G. Working Language

The working language of the meeting will be English with no interpretation provided. All communications, abstracts and papers must be submitted in this language.

H. Organization

Official correspondence regarding the technical aspects of the meeting should be addressed to the Scientific Secretary:

Willem Meyer

Tel.: +43 1 2600 222659 Fax: +43 1 26007

Email: W.Meyer@iaea.org

Official correspondence regarding administrative issues should be addressed to the Administrative Secretary:

Marina Tolstenkova

Tel.: +43 1 2600 21968 Fax: +43 1 26007

Email: M.Tolstenkova@iaea.org

Participation Form

Technical Meeting on Waste Form Performance Testing for Low Level Waste Disposal (International Predisposal Network, IPN)

Virtual Event

12–23 April 2021

To be completed by the participant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary W.Meyer@iaea.org and to the Administrative Secretary M.Tolstenkova@iaea.org.

Deadline for receipt by IAEA through official channels: 31 March 2021

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms
Institution:		
Full address:		
Tel. (Fax):		
Email:		
Nationality:	Representing following Member State/non-Member State/entity or invited organization:	
If/as applicable: Do you intend to submit a paper? Yes <input type="checkbox"/> No <input type="checkbox"/> Would you prefer to present your paper as a poster? Yes <input type="checkbox"/> No <input type="checkbox"/> Title:		

Form for Submission of a Paper

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Title of the paper:		
If applicable: Abstract ID in IAEA-INDICO:		
Family name(s) and first name(s) of all author(s) (same as in passport(s):	Scientific establishment(s) in which the work has been carried out	City/Country
1.		
2.		
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