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International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

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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 Experiences in the Management of Disused Ionizing Smoke Detectors** to be held at the IAEA's Headquarters in Vienna, Austria, from **8 to 12 May 2017**.

The purpose of the meeting is to discuss and describe the methodology that has already been successfully implemented in some Member States for the safe removal, transportation and dismantling of ionizing smoke detectors and the subsequent conditioning and storage of radioactive sources, as well as to identify solutions that can help in overcoming existing challenges in this area.

The attached Information Sheet provides further details of the meeting.

The meeting will be held in English.

Member States are invited to designate one participant for this meeting. The participant should have specialized knowledge or experience in radioactive waste management. Member States are strongly encouraged to identify suitable women participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the meeting. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Such assistance may be offered upon specific request to normally one participant per country provided that, in the IAEA's view, the participant on whose behalf assistance is requested will make an important contribution to the meeting. The application for financial support should be made at the time of designating the participant.

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in meetings, workshops or training courses or for consultants. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

Designations should be submitted through the established official channels not later than **21 March 2017** for the attention of the Scientific Secretary of the meeting, Mr Juan Carlos Benítez Navarro, Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy, IAEA, Vienna International Centre, PO Box 100, 1400 Vienna, Austria (Tel.: +43 1 2600 22673; Email: J.C.Benitez-Navarro@iaea.org). Designations should also be copied to the Administrative Secretary for the meeting, Ms Nisansala Nath-Sirimalwatta (Email: N.Nath-Sirimalwatta@iaea.org). The full names and complete contact details (including postal address, telephone/fax numbers, and email address) of designated participants should be provided.

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



2017-02-21

Enclosures: Information Sheet

Participation Form (Form A)

Grant Application Form (Form C)



Technical Meeting

on

Experiences in the Management of Disused Ionizing Smoke Detectors

**IAEA Headquarters
Vienna, Austria**

8–12 May 2017

Ref. No.: T2-TM-55716

Information Sheet

A. Background

Ionizing smoke detectors (ISDs) are the most common type of smoke detector and have been commercially manufactured and used around the world for several decades. These devices use a small amount of radioactive material, usually americium-241. Other radionuclides such as nickel-63, krypton-85, radium-226, plutonium-238 and plutonium-239 have also been used.

Only a few models of ISD contain radionuclides with activities below exemption levels; however, a risk assessment has shown that the practice (the use of ISDs) is justified and individual ISDs could be exempted from regulatory control. Disposal of individual units in municipal landfills is practised in some countries. However, due to the large number of these devices and the long half-life of their sources, it is becoming a routine practice worldwide to remove them from the public domain; remove, consolidate and condition their disused sealed radioactive sources (DSRSs); and manage their DSRSs as radioactive waste. In many countries there is a limit in the concentration of alpha emitters in individual radioactive waste

packages for disposal in near surface repositories, which may require alternative disposal options (e.g. disposal at depth). Many countries have opted for removing disused ISDs from the public domain and managing them in a centralized facility as radioactive waste.

The International Atomic Energy Agency (IAEA) is preparing a Technical Document to describe different approaches for the management of disused ISDs, including the dismantling of a variety of ISDs to remove their DSRs, and to describe the subsequent, long-term management of both the DSRs and secondary wastes from dismantling operations. Since situations vary from Member State to Member State, examples of ISD dismantling cannot cover all cases — professional judgement needs to be exercised to adapt these examples to specific cases as they are encountered. This document is intended to ensure that DSR removal, conditioning and long-term management are carried out safely and in accordance with IAEA and other international requirements independent of the available infrastructure in Member States.

Participants will describe the experiences and lessons learned from implementation of operations related to the management of disused ISDs in their countries/organizations.

The methodology that has already been successfully implemented in some Member States for the safe removal, transportation and dismantling of ISDs and the subsequent conditioning and storage of radioactive sources will be discussed. Considerations and advice will be given on the different handling requirements for the alpha-emitting radionuclides.

This information will be included in practical guidance prepared by the IAEA for organizations that have a role in this process and will highlight typical issues and concerns in handling ISDs.

B. Purpose

The purpose of this meeting is to discuss and describe the methodology that has already been successfully implemented in some Member States for the safe removal, transportation and dismantling of ISDs and the subsequent conditioning and storage of radioactive sources, as well as to identify solutions that can help in overcoming challenges in this area.

C. Expected Output

The meeting will focus on the exchange of information regarding the following topics:

1. ISDs — types, models, main features, radioactive sources, safety aspects, use discontinuation, risks associated with DSRs from ISDs;
2. National experiences related to the control of ISDs: export/import, transport, installation, use (domestic, industrial), removal when disused and post-use actions;

3. Experiences in dismantling different models of ISD, conditioning, designation/preparation of operational areas and working places, equipment, tools, materials, instrumentation;
4. Experience and lessons learned

D. 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.

E. Venue

The meeting will commence on Monday, 8 May 2017 at the Vienna International Centre (VIC), Vienna, Austria.

F. Visas

Participants who need a visa for entering Austria should submit the necessary application to the nearest diplomatic or consular representative of Austria as early as possible.

G. Organization

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

Mr Juan Carlos Benítez Navarro
Waste Technology Section
Division of Nuclear Fuel Cycle and Waste Technology
Department of Nuclear Energy
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA

Tel.: +43 1 2600 22673

Fax: +43 1 26007

Email: J.C.Benitez-Navarro@iaea.org

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

Ms Nisansala Nath-Sirimalwatta

Waste Technology Section
Division of Nuclear Fuel Cycle and Waste Technology
Department of Nuclear Energy
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA

Tel.: +43 1 2600 22699

Fax: +43 1 26007

Email: N.Nath-Sirimalwatta@iaea.org

Participation Form

Technical Meeting on Experiences in the Management of Disused Ionizing Smoke Detectors

Vienna, Austria

8–12 May 2017

To be completed by the participant and sent to the competent official 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), Vienna International Centre, PO Box 100, 1400 Vienna, Austria, either electronically by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Kindly send also a copy per email to: J.C.Benitez-Navarro@iaea.org and N.Nath-Sirimalwatta@iaea.org.

Participants who are members of an invited organization can submit this form to their organization for subsequent transmission to the IAEA.

Deadline for receipt by IAEA through official channels: 21 March 2017

Family name: (e.g. Smith)		First name(s): (e.g. John)		Mr/Ms
Institution:				
Full address:				
For urgent communications please indicate:	Tel.: Fax: Email:			
Nationality:	Designating Government or organization:			
Mailing address (if different from address indicated above):				
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:				

Grant Application Form

Technical Meeting on Experiences in the Management of Disused Ionizing Smoke Detectors

Vienna, Austria

8–12 May 2017

To be sent to the competent official authority (Ministry of Foreign Affairs or National Atomic Energy Authority) for transmission to the International Atomic Energy Agency, Vienna International Centre, PO Box 100, 1400 Vienna, Austria (Fax: +43 1 26007).

To be completed only by participants from developing countries on whose behalf a grant is requested

Deadline for receipt by IAEA through official channels: 21 March 2017

Full name:	Mr/Ms:
Postal address:	Phone:
	Fax:
	Email:
Date of birth (year/month/day):	Nationality:

1. EDUCATION (Post-secondary)

Name and place of institution	Field of study	Diploma or Degree	Years studied from to	

2. RECENT EMPLOYMENT RECORD (Starting with your present post)

Name and place of employer/ organization	Title of your position	Type of work	Years worked from to	

3. DESCRIPTION OF WORK performed over the last three years:

4. INSTITUTE'S/MEMBER STATE'S PROGRAMME IN FIELD OF MEETING

.....
 Date Signature of applicant

.....
 Date Name and title (printed) and signature of responsible Government official