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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

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In reply please refer to: **EVT1803996**

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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 Global Capabilities for the Production and Manufacture of Non-High Enriched Uranium Molybdenum-99 Targets** (hereinafter referred to as "event") to be held at the IAEA's Headquarters in Vienna, Austria, from **26 to 27 May 2020**.

The purpose of the event is for molybdenum-99 producers to share insights into their progress towards non-high enriched uranium ⁹⁹Mo production.

The attached Information Sheet provides further details of the event.

The event will be held in English.

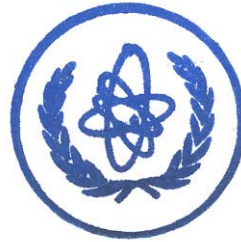
The event is intended for experts in the field who may be interested in participating. Member States are invited to designate one or more participants to represent the Government at this event. Member States are strongly encouraged to identify suitable women participants.

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 at the time of designating the participant using the attached Grant Application Form (Form C).

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 IAEA events. 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 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 **27 March 2020** 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 Thomas Hanlon Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy (Email: T.Hanlon@iaea.org), and to the Administrative Secretary, Ms Sharon Garcia (Email: Sh.Garcia@iaea.org). The Scientific Secretary of the event will liaise with the participants directly concerning further arrangements, including travel details, as appropriate, once the official designations have been received.

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.



2019-12-19

Enclosures: Information Sheet

Participation Form (Form A)

Form for Submission of a Paper (Form B)

Grant Application Form (Form C)



Technical Meeting on Global Capabilities for the Production and Manufacture of Non-High Enriched Uranium Molybdenum-99 Targets

**IAEA Headquarters
Vienna, Austria**

26 to 27 May 2020

Ref. No.: EVT1803996

Information Sheet

Information

Technetium-99m (^{99m}Tc), the daughter product of molybdenum-99 (^{99}Mo), is the most commonly utilized medical radioisotope in the world – it is used for over 30 million medical diagnostic procedures annually and comprises some 80 percent of all diagnostic nuclear medicine procedures. Until recently, almost all of the ^{99}Mo consumed worldwide was produced in research, test or isotope production reactors by irradiating highly enriched uranium (HEU) targets that are subsequently processed to recover ^{99}Mo .

Following significant shortages of this medical isotope, the international community has determined that to ensure long-term security of supply, the industry must transition to full-cost recovery and move to non-HEU-based production, through conversion to low enriched uranium (LEU) targets and the use of new alternative technologies. As the ^{99}Mo industry undergoes these transitions, concerns relating to the security of supply of targets, production efficiencies, and potential price increases must be addressed.

As part of the IAEA's continuing involvement to address security of supply as well as minimizing the use of HEU in Mo-99 production, the Agency is providing a forum for discussion on target manufacturing techniques and capabilities given the identified interest of the Mo-99 community in this particular technical area.

Objective

The overall objective of the Technical Meeting is to provide a forum to discuss the current and upcoming techniques and capabilities for the manufacture of targets used in the production of ^{99}Mo . While focused on fission-based LEU targets, the meeting is also expected to cover other forms of targets used to produce ^{99}Mo , such as through neutron capture and accelerator-based methods.

Topics

The following topics will be addressed and discussed during the workshop:

- Status of existing capabilities for the manufacture of targets for ^{99}Mo production;
- Status of upcoming capabilities and/or ongoing technical R&D activities for the manufacture of targets for ^{99}Mo production;
- Status of high-assay low enriched uranium supply;
- Recommendations for future meetings.

Target Audience

The workshop is intended for individuals from IAEA Member States that are involved in efforts to manufacture non-HEU targets to produce ^{99}Mo . Participants should be representatives of the core team involved in and responsible for development and/or manufacture of targets for ^{99}Mo production, as well as other stakeholders in the ^{99}Mo community.

Working Language

The working language of the workshop will be English. No interpretation will be provided.

Application Procedures

Designations should be submitted on the attached Participation Form (Form A). Completed forms should be endorsed by the competent national authority (e.g. Ministry of Foreign Affairs or National Atomic Energy Authority) and returned through the established official channels. They must be received by the IAEA no later than **27 March 2020**. Designations received after this date or applications sent directly by

individuals or by private institutions cannot be considered. Designating Governments will be informed in due course of the names of the selected candidates and at that time full details will be given on the procedures to be followed regarding administrative and financial matters.

Accommodation

It is the responsibility of the participants to arrange their own accommodation. A list of hotels for reference and other organizational items will be sent to all designated participants approximately four weeks before the workshop.

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 **27 March 2020**.

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:

<http://www-pub.iaea.org/iaeaevents/GeneralInfo/Guide/VIC>.

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.

Organization

Scientific Secretary

Mr Thomas Hanlon

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Administrative Secretary

Ms Sharon Garcia

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International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA

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Fax: +43 1 26007

Email: Sh.Garcia@iaea.org

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.

Participation Form

Technical Meeting on Global Capabilities for the Production and Manufacture of Non-High Enriched Uranium Molybdenum-99 Targets

IAEA Headquarters, Vienna, Austria

26–27 May 2020

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 T.Hanlon@iaea.org and to the Administrative Secretary Sh.Garcia@iaea.org.

Please attach a passport copy or other document of identification (ID).

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: 27 March 2020

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

Technical Meeting on Global Capabilities for the Production and Manufacture of Non-High Enriched Uranium Molybdenum-99 Targets

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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: 27 March 2020

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.		
3.		
Family name(s) and first name(s) of author presenting the paper (same as in passport):	Mr/Ms:	
Mailing address:		
Tel. (Fax):		
Email:		

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Furthermore, I herewith declare:

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- ☐ that any permissions and rights to publish required for third-party content, including but not limited to figures and tables, have been obtained, that all published material is correctly referenced; and
- ☐ that the material submitted to the IAEA does not contain any libellous or other unlawful statements and does not contain any materials that violate any personal or proprietary rights of any person or entity.

Date:

Signature of main author

Grant Application Form

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Deadline for receipt by IAEA through official channels: 27 March 2020

Family name: (e.g. Smith)	First name(s): (e.g. John)	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yyyy/mm/dd):	Nationality:	

1. Education (post-secondary):

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

3. Description of work performed over the last three years:

4. Institute's/Member State's programme in field of event:

Date: _____ **Signature of applicant:** _____

Date: _____ **Name, signature and stamp of Ministry of Foreign Affairs,
Permanent Mission to the IAEA or National Atomic Energy
Authority**
