



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
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In reply please refer to: **EVT2003573**
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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 Next Generation Reactors and Emergency Preparedness and Response** (hereinafter referred to as "event") to be held at the IAEA's Headquarters in Vienna, Austria, from **18 to 22 October 2021**.

The purpose of the event is to discuss Member State perspectives on hazard assessment methodologies and adequate EPR arrangements for next generation reactors and small modular reactors.

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.

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 participants 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 **20 August 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 Secretaries of the event, Mr James Anderson, Incident and Emergency Centre, Department of Nuclear Safety and Security (Email: J.Anderson@iaea.org), Mr Frederic Stephani, Incident and Emergency Centre, Department of Nuclear Safety and Security (Email: F.Stephani@iaea.org), and to the Administrative Secretary, Mr Adrian Brown (Email: A.Brown@iaea.org). The Scientific Secretaries of the event will liaise with the participants directly concerning further arrangements, including travel details, as appropriate, once official designations have been received.

Should Governments wish, in addition, to appoint one or more observers to assist and advise the designated participants, they are kindly requested to inform the IAEA of the names and contact details of any such observers by the above date. In accordance with the established rules, Governments are expected to bear the cost of attendance of any observers they may send to IAEA events. Compensation is not payable by the IAEA for any damage to or loss of observers' personal property or for illness, injury or death occurring while travelling to or in connection with their attendance at IAEA events.

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.



2021-07-16

Enclosures:

Information Sheet

Participation Form (Form A)

Grant Application Form (Form C)



Technical Meeting on Next Generation Reactors and Emergency Preparedness and Response

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

18 to 22 October 2021

Ref. No.: EVT2003573

Information Sheet

Introduction

The first Technical Meeting (TM) on Next Generation Reactors and Emergency Preparedness and Response (EPR), held at the IAEA in Vienna, Austria, from 13 February to 17 February 2017 represented an initial step in addressing EPR for next generation reactors (NGRs) by bringing together next generation reactor technology developers and practitioners/experts in the emergency preparedness and response field. Among the more notable outcomes of this meeting were acknowledgement that GSR Pat 7 requirements are fully applicable to NGRs, a basic consensus that off-site EPR arrangements will be needed for NGRs and that these arrangements should account for the hazard associated with the NGR on a graded approach; recognizing that one design goal for NGRs was to eliminate the need for offsite emergency response. The meeting participants acknowledged that more work would need to be done to reach consensus on the definition of adequate off-site EPR arrangements that would provide appropriate public/environmental protection while avoiding extrapolation of current EPR arrangements defined for large light water reactors. The previous TM participants also concluded that: communication with the public would be key to the successful implementation of less demanding EPR arrangements for NGRs, that additional technical guidance for EPR of NGRs would be helpful, and that the preliminary status and lack of operational experience with NGRs results in uncertainty about the level of EPR needed for NGRs.

In addition, since the first TM, other efforts around NGRs that warrant Member States' awareness and involvement have also moved forward. These include, among others:

- the IAEA coordinated research project (CRP) on the appropriate sizing of emergency planning zones (EPZs) for small modular reactors (SMRs) that was implemented based upon the needs of Member States and the conclusions of the previous TM

- the development in some countries of new regulatory approaches to the licensing of SMRs and Other New Technologies
- and the continued development and deployment of transportable nuclear power plants (TNPP).

Due to pandemic restrictions, the second TM was divided in two parts. Part 1 was conducted virtually from 29 September to 2 October 2020. It generally served as a venue to update participants on progress and recent developments in EPR for NGRs during the significant time elapsed since the first TM, and it helped focus preparations for Part 2 (to be held in person) of this TM. While no conclusions were derived from Part 1 of the second TM, topics discussed included EPZ sizing determinations for SMRs, deployment scenarios, public acceptance, and graded approach to EPR. Participants indicated that continued discussion of Emergency Planning Zone (EPZ) size determination, hazard assessment, graded approach to EPR and arrangements for transportable NGRs were priorities for Part 2 of the second TM.

Objectives

The objective of Part 2 of this second Technical Meeting will be to provide Member States with updated information on EPR arrangements for NGRs and to provide the basis for IAEA development of a future guidance document on the subject. In particular, the following will be addressed:

- Presenting the results of the CRP on EPZs for SMRs and drawing initial conclusions about the research
- Drawing initial conclusions on how a graded approach to EPR for NGRs could be achieved in the context of IAEA Safety Standard No. GSR Part 7, “Preparedness and Response for a Nuclear or Radiological Emergency”
- Drawing initial conclusions on the potential scope and content of IAEA technical guidance needed by Member States to support effective and standardized EPR arrangements for NGRs.

Target Audience

Participants should have a working knowledge of NGR development or nuclear emergency preparedness and response, or both. Member State representatives should be able to discuss their Member State's EPR arrangements, including regulatory requirements and/or plans for NGRs.

Working Language(s)

English

Structure

The Technical Meeting will be held at the IAEA's Headquarters in Vienna, Austria, from 18 to 22 October 2021. The technical sessions will consist of keynotes and presentations delivered by invited speakers and representatives from IAEA Member States, the IAEA, and other organizations (including designers and operators) and will focus on topics described in the Objectives above. The keynotes and presentations will be followed by discussions with invited speakers and participants. Summaries of discussions and concluding remarks will be presented at the closing plenary session. Arrangements will be made to allow speakers unable to attend in person to participate in a virtual format.

Topics

The Technical Meeting will address the following topics:

1. The results of research activities, design developments, regulatory efforts, and operating experiences
2. Perspectives on determining appropriate EPZ sizes for NGRs
3. To the extent feasible, perspectives on EPR for transportable nuclear power plants will be addressed as well.

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 **20 August 2021**. 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 above deadline.

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and technical 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. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

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 **20 August 2021**.

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 Secretaries

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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.

Participation Form

Technical Meeting on Next Generation Reactors and Emergency Preparedness and Response

IAEA Headquarters, Vienna, Austria

18 to 22 October 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 Secretaries, Mr James Anderson, Incident and Emergency Centre, Department of Nuclear Safety and Security (Email: J.Anderson@iaea.org); Mr Frederic Stephani, Incident and Emergency Centre, Department of Nuclear Safety and Security (Email: F.Stephani@iaea.org); and to the Administrative Secretary, Mr Adrian Brown, (Email: A.Brown@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: 20 August 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	No
Would you prefer to present your paper as a poster?	Yes	No
Title:		

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. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

Grant Application Form

Technical Meeting on Next Generation Reactors and Emergency Preparedness and Response

IAEA Headquarters, Vienna, Austria

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Deadline for receipt by IAEA through official channels: 20 August 2021

Family name(s): (same as in passport)	First name(s): (same as in passport)	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**
