



Technical Meeting on Next Generation Reactors and Emergency Preparedness and Response

**IAEA Headquarters
Vienna, Austria**

6 to 9 April 2020

Ref. No.: EVT1805598

Information Sheet

Background

The previous Technical Meeting (TM) on Next Generation Reactors and Emergency Preparedness and Response, held at the IAEA in Vienna, Austria from February 13-17, 2017 represented an initial step in addressing EPR for next generation reactors by bringing together next generation reactor (NGR) technology developers and practitioners/experts in the emergency preparedness and response (EPR) field. Among the more notable outcomes of this meeting were acknowledgement that GSR Pat 7 requirements are fully applicable to NGRs and 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. The Annual Report 2017 of the Generation IV International Forum (GIF) describes several continuing development efforts that include goals of reducing the size of off-site emergency planning zones (EPZs) and analyses to support those goals.

In addition, since the previous 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 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 by the U.S. Nuclear Regulatory Commission of regulations to govern the licensing of SMRs,
- and the continued development and deployment of transportable nuclear power plants (TNPP).

Objectives

The objective of this Technical Meeting will be to build upon the success of the previous TM by addressing its conclusions and recommendations for future action. In particular, the following will be addressed:

- Discussing off-site EPR arrangements for NGRs. All type of NGRs will be addressed, with a particular focus on designs that are now being deployed or are about to be deployed.
- Discussing IAEA technical guidance needed by Member States to support effective and standardized EPR arrangements for NGRs
- Presenting progress and recent developments in EPR for NGRs

Topics

The Technical Meeting will address the following topics:

1. The nature, scope, and potential graded approach to determining appropriate off-site EPR arrangements for NGRs
2. Defining IAEA guidance needed by Member States
3. The results of research activities, design developments, regulatory efforts, and operating experiences.

Structure

The Technical Meeting will be held at the IAEA's Headquarters in Vienna, Austria, from 6 to 9 April 2020.

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.

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

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 **14 February 2020**. 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 financial matters.

Please note that the IAEA is in a transition phase to manage the entire registration process for all regular programme events electronically through the new InTouch+ (<https://intouchplus.iaea.org>) facility, which is the improved and expanded successor to the InTouch platform that has been used in recent years for the IAEA's technical cooperation events. Through InTouch+, prospective participants will be able to apply for events and submit all required documents online. National authorities will be able to use InTouch+ to review and approve these applications. Interested parties that would like to use this new facility should write to: InTouchPlus.Contact-Point@iaea.org.

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 **14 February 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

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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.