



**IAEA**

International Atomic Energy Agency

*Atoms for Peace and Development*

# **Technical Meeting on Utilization Related Design Features of Research Reactors**

**IAEA Headquarters  
Vienna, Austria**

**29 July – 2 August 2024**

**Ref. No.: EVT2202338**

## **Information Sheet**

### **Introduction**

For more than 50 years, research reactors have played an important role in the development of nuclear science and technology. They have made significant contributions to a large number of disciplines, as well as to the educational and research programmes of about 70 countries worldwide.

Research reactors are sophisticated devices for basic and applied research in the fields of nuclear research, radiochemistry, activation analysis, materials sciences, nuclear power and nuclear medicine. They also serve as powerful instruments for the production of high technology commodities, such as a wide variety of radioactive isotopes, as well as radiation modified materials important for microelectronics, space programmes and other technologically advanced areas. These reactors also enable the testing of various types of nuclear fuel and the study of radiation resistance of new structural materials. As a source of high intensity fluxes of neutrons, gamma quanta, neutrinos and other types of radiation, research reactors play an irreplaceable role in science, industry and medicine. Since many of these facilities are based at universities and dedicated research institutions, research reactors have also established a considerable legacy in the education and training of science and engineering students and, in some cases, including nuclear utilities personnel.

There are important steps to be taken and in some cases, significant challenges to be addressed by the research reactor community, when efficiently selecting, designing and operating various types of utilization related reactor components, devices and equipment. The IAEA supports Member States in their endeavours, and is currently developing a dedicated publication on utilization related design features of research reactors.

## **Objectives**

The purpose of the event is to provide a forum to share experience and know-how on utilization related design features of research reactors including constraints and restrictions for the design and operation. The meeting will also serve to collect feedback from Member States on the publication, on this subject, that is under preparation.

## **Target Audience**

The Technical Meeting is aimed at participants from research reactor's operating organizations and designers in Member States that are either planning a new research reactor or have recently performed or are planning an upgrade in their present installations involving utilization related design features.

Member States are strongly encouraged to identify suitable women participants.

## **Working Language**

This technical meeting will be held in English.

## **Topics**

Utilization related design features for:

- New research reactor projects;
- Modifications, upgrades, refurbishments;
- Education and training; irradiation applications and analytical services; beam port applications; testing of instruments and components; materials research and fuel testing;
- Interaction, interfaces and constraints between design elements for different applications.

Participants are requested to make brief presentations (~20 minutes) on the experiences and good practices in the above topics with relevance to their research reactor facilities.

Discussions on the draft publication under preparation on Utilization Related Design Features of Research Reactors are also part of the meeting agenda, aiming at collecting feedback from Member States.

## **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 or invited organization, participants are requested to submit their application via the InTouch+ platform (<https://intouchplus.iaea.org>) to the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or organization for onward transmission to the IAEA by **15 May 2024**, following the registration procedure in InTouch+:

1. Access the InTouch+ platform (<https://intouchplus.iaea.org>):
  - Persons with an existing NUCLEUS account can sign into the platform with their username and password;
  - Persons without an existing NUCLEUS account can register [here](#).
2. Once signed in, prospective participants can use the InTouch+ platform to:
  - Complete or update their personal details under ‘Complete Profile’ and upload the relevant supporting documents;
  - Search for the relevant event under the ‘My Eligible Events’ tab;
  - Select the Member State or invited organization they want to represent from the drop-down menu entitled ‘Designating Authority’ (if an invited organization is not listed, please contact [InTouchPlus.Contact-Point@iaea.org](mailto:InTouchPlus.Contact-Point@iaea.org));
  - If applicable, indicate whether financial support is requested and complete the relevant information (this is not applicable to participants from invited organizations);
  - Based on the data input, the InTouch+ platform will automatically generate the Participation Form (Form A) and/or the Grant Application Form (Form C);
  - Submit their application.

Once submitted through the InTouch+ platform, the application, together with the auto-generated form(s), will be transmitted automatically to the required authority for approval. If approved, the application, together with the applicable form(s), will automatically be sent to the IAEA through the online platform.

NOTE: The application for financial support should be made, together with the submission of the application, by **15 May 2024**.

For additional information on how to apply for an event, please refer to the [InTouch+ Help](#) page. Any other issues or queries related to InTouch+ can be sent to [InTouchPlus.Contact-Point@iaea.org](mailto:InTouchPlus.Contact-Point@iaea.org).

Selected participants will be informed in due course on the procedures to be followed with regard to administrative and financial 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. The IAEA may also use the contact details of Applicants to inform them of the IAEA’s scientific and technical publications, or the latest employment opportunities and current open vacancies at the IAEA. These secondary purposes are consistent with the IAEA’s mandate. Further information can be found in the [Data Processing Notice](#) concerning IAEA InTouch+ platform.

## Papers and Presentations

The IAEA encourages participants to give presentations on the work of their respective institutions that falls under the topics listed above.

Participants who wish to give presentations are requested to submit an abstract (not longer than one page) of their work. The abstract will be reviewed as part of the selection process for presentations. It should be

sent electronically to the Scientific Secretaries of the event (see contact details below), not later than **15 May 2024**. Authors will be notified of the acceptance of their proposed presentations by **10 June 2024**.

In addition, participants have to submit the abstract together with the **Participation Form (Form A)** and the attached **Form for Submission of a Paper (Form B)** to their competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) or their organization for onward transmission to the IAEA not later than **15 May 2024**.

## 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 **15 May 2024**.

The countries eligible for TC (Technical Cooperation) assistance which participate in TC projects may submit the request for TC support through their respective National Liaison Officers (NLOs). In this case, TC specific forms to attend the event need to be employed. Detailed information and forms are accessible in the following web page:

<https://www.iaea.org/services/technical-cooperation-programme/how-to-participate>

## Venue

The event will take place at the IAEA Headquarters, Vienna International Centre (VIC), Vienna, Austria. Participants must make their own travel and accommodation arrangements.

## Visas

Participants who require a visa to enter Austria should submit the necessary application as soon as possible to the nearest diplomatic or consular representative of 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.

## Reference and Publications

IAEA publications containing information related to the meeting topics are:

1. IAEA Technical Report Series, TRS 455 “Utilization Related Design Features of Research reactors: A compendium” Vienna, 2007.
2. IAEA Nuclear Energy Series, NP-T-5.6 “Technical Requirements in the Bidding Process for a New RR”, Vienna 2014.
3. IAEA Nuclear Energy Series, NP-T-5.3 “Applications of Research Reactors, Vienna 2014

## IAEA Contacts

### Scientific Secretaries:

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Subsequent correspondence on scientific matters should be sent to the Scientific Secretaries and correspondence on other matters related to the event to the Administrative Secretary.

# Form for Submission of a Paper

## Technical Meeting on Utilization Related Design Features of Research Reactors (Hybrid event)

IAEA Headquarters (VIC), Vienna, Austria

**29 July – 2 August 2024 [Virtual participation will be available, details will be communicated directly to the participants]**

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](mailto: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 Ruben Mazzi, [R.Mazzi@iaea.org](mailto:R.Mazzi@iaea.org) and Danas Ridikas, [D.Ridakas@iaea.org](mailto:D.Ridakas@iaea.org), to the Administrative Secretary, Reena Thottakkara, [R.Thottakkara@iaea.org](mailto:R.Thottakkara@iaea.org).

**Deadline for receipt by IAEA through official channels: 15 May 2024**

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:	
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**Date:**

**Signature of main author:**